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# **DataONE Content Indexer Documentation**

*Release 2.3.3*

**DataONE**

**Aug 07, 2020**



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These documents are generated from the configuration information contained in the projects `dataone-cn-solr` and `d1_cn_index_processor` which provide configuration for the solr index and metadata parsers respectively.

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## **Index Configuration**



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## Solr Index Fields

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A list of the fields defined in the solr search index used by the Coordinating Nodes.

These fields are populated by the index processor using values drawn from `Types.SystemMetadata`, Science Metadata, and Resource Map documents.

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**Note:** For Editors

Definitions are drawn from the [solr configuration file](#) and descriptions for each field are contained in a separate properties file (`dataone-cn-solr/usr/share/dataone-cn-solr/debian/queryFieldDescriptions.properties`). After editing descriptions, the document source must be regenerated and committed to GitHub for the public facing documentation to be updated.

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### 1.1 Static Fields

Field	Type	MV	Store	Index	Description
Index. <b>_root_</b>	string	False	False	True	
Index. <b>_version_</b>	long	False	True	True	
Index. <b>abstract</b>	text_general	False	True	True	The full text of the abstract as provided in the science metadata document.
Index. <b>attribute</b>	text_general	True	True	True	Multi-valued field containing the text from <code>attributeName</code> , <code>attributeLabel</code> , <code>attributeDescription</code> , <code>attributeUnit</code> fields into a single searchable text field.

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Table 1 – continued from previous page

Field	Type	MV	Store	Index	Description
Index. <b>attributeDescription</b>	text_general	True	True	True	Multi-valued field containing the attribute descriptive text.
Index. <b>attributeLabel</b>	string	True	True	True	Multi-valued field containing secondary attribute name information.
Index. <b>attributeName</b>	string	True	True	True	Multi-valued field containing the main attribute name information.
Index. <b>attributeUnit</b>	string	True	True	True	Multi-valued field containing the attribute unit information.
Index. <b>author</b>	string	False	True	True	Principle Investigator (PI) / Author as listed in the metadata document.
Index. <b>authorGivenName</b>	string	False	True	True	The given name of the primary author/PI.
Index. <b>authorGivenNameSort</b>	alphaOnlySort	False	True	True	The given name of the primary author/PI case normalized for sorting.
Index. <b>authoritativeMN</b>	string	False	True	True	The node Id of the authoritative Member Node for the object.
Index. <b>authorLastName</b>	string	True	True	True	The LAST name(s) of the author(s)
Index. <b>authorSurName</b>	string	False	True	True	The sur name of the primary author/PI.
Index. <b>authorSurNameSort</b>	alphaOnlySort	False	True	True	The sur name of the primary author/PI case normalized for sorting.
Index. <b>awardNumber</b>	string	True	True	True	
Index. <b>awardNumber</b>	string	True	True	True	
Index. <b>awardTitle</b>	string	True	True	True	
Index. <b>awardTitle</b>	string	True	True	True	
Index. <b>beginDate</b>	tdate	False	True	True	The starting date of the temporal range of the content described by the metadata document.

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Table 1 – continued from previous page

Field	Type	MV	Store	Index	Description
Index. <b>blockedReplicationMN</b>	string	True	True	False	A multi-valued field that contains the node Ids of member nodes that are blocked from holding replicas of this object.
Index. <b>changePermission</b>	string	True	True	True	List of subjects (groups and individuals) that have change permission on PID.
Index. <b>checksum</b>	string	False	True	False	The checksum for the object
Index. <b>checksumAlgorithm</b>	string	False	True	False	Algorithm used for generating the object checksum
Index. <b>class</b>	string	True	True	True	Taxonomic class name(s)
Index. <b>contactOrganization</b>	string	True	True	True	Name of the organization to contact for more information about the dataset
Index. <b>contactOrganizationText</b>	text_general	True	False	True	Copy from contactOrganization
Index. <b>datasource</b>	string	False	True	True	The node Id of the member node that originally contributed the content.
Index. <b>dataUrl</b>	string	False	True	False	The URL that can be used to resolve the location of the object given its PID.
Index. <b>dateModified</b>	tdate	False	True	True	The date and time when the object system metadata was last updated.
Index. <b>datePublished</b>	tdate	False	True	True	Publication date for the dataset (this may or may not be coincident with when the content is added to DataONE).
Index. <b>dateUploaded</b>	tdate	False	True	True	The date and time when the object was uploaded to the Member Node.
Index. <b>decade</b>	string	False	True	True	The latest decade that is covered by the dataset, expressed in the form “1999-2009”
Index. <b>documents</b>	string	True	True	True	Lists all PIDs that this object describes. Obtained by parsing all resource maps in which this object is referenced. Not set for data or resource map objects.
Index. <b>eastBoundCoord</b>	tfloat	False	True	True	Eastern most longitude of the spatial extent, in decimal degrees, WGS84
Index. <b>edition</b>	text_general	False	True	True	The version or edition number of the item described.

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Table 1 – continued from previous page

Field	Type	MV	Store	Index	Description
Index. <b>endDate</b>	tdate	False	True	True	The ending date of the temporal range of the content described by the metadata document.
Index. <b>family</b>	string	True	True	True	Taxonomic family name(s)
Index. <b>fileID</b>	string	False	True	True	Contains the <i>CNRead.resolve</i> URL for the object ONLY if the object is a science metadata object.
Index. <b>fileName</b>	string	False	True	True	The file name for the object, specified in system metadata field with the same name.
Index. <b>formatId</b>	string	False	True	True	The format identifier indicating the type of content this record refers to.
Index. <b>formatType</b>	string	False	True	True	The format type of the record - DATA, METADATA, RESOURCE.
Index. <b>funderIdentifier</b>	string	True	True	True	
Index. <b>funderIdentifier</b>	string	True	True	True	
Index. <b>funderName</b>	string	True	True	True	
Index. <b>funderName</b>	string	True	True	True	
Index. <b>funding</b>	string	True	True	True	
Index. <b>funding</b>	string	True	True	True	
Index. <b>fundingText</b>	text_general	True	False	True	
Index. <b>fundingText</b>	text_general	True	False	True	
Index. <b>gcmdKeyword</b>	text_general	True	True	True	Keywords drawn from the GCMD controlled vocabulary
Index. <b>genus</b>	string	True	True	True	Taxonomic genus name(s)

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Table 1 – continued from previous page

Field	Type	MV	Store	Index	Description
Index. <b>geoform</b>	string	False	True	True	The name of the general form in which the item's geospatial data is presented
Index. <b>geohash_1</b>	text_general	True	True	True	An encoded string that represents the geographic coordinates of the centroid of a spatial extent. This can be used for searching and plotting.
Index. <b>geohash_2</b>	text_general	True	True	True	An encoded string that represents the geographic coordinates of the centroid of a spatial extent. This can be used for searching and plotting.
Index. <b>geohash_3</b>	text_general	True	True	True	An encoded string that represents the geographic coordinates of the centroid of a spatial extent. This can be used for searching and plotting.
Index. <b>geohash_4</b>	text_general	True	True	True	An encoded string that represents the geographic coordinates of the centroid of a spatial extent. This can be used for searching and plotting.
Index. <b>geohash_5</b>	text_general	True	True	True	An encoded string that represents the geographic coordinates of the centroid of a spatial extent. This can be used for searching and plotting.
Index. <b>geohash_6</b>	text_general	True	True	True	An encoded string that represents the geographic coordinates of the centroid of a spatial extent. This can be used for searching and plotting.
Index. <b>geohash_7</b>	text_general	True	True	True	An encoded string that represents the geographic coordinates of the centroid of a spatial extent. This can be used for searching and plotting.
Index. <b>geohash_8</b>	text_general	True	True	True	An encoded string that represents the geographic coordinates of the centroid of a spatial extent. This can be used for searching and plotting.
Index. <b>geohash_9</b>	text_general	True	True	True	An encoded string that represents the geographic coordinates of the centroid of a spatial extent. This can be used for searching and plotting.
Index. <b>id</b>	string	False	True	True	The identifier of the object being indexed.
Index. <b>identifier</b>	text_general	False	True	True	Copy id
Index. <b>investigator</b>	string	True	True	True	Name of the investigator(s) responsible for developing the dataset and associated content.
Index. <b>investigatorText</b>	text_general	True	False	True	Copy from investigator.
Index. <b>isDocumentedBy</b>	string	True	True	True	Lists all PIDs that describe this object. Obtained by parsing all resource maps in which this object is referenced.
Index. <b>isPublic</b>	boolean	False	True	True	Set to True if the DataONE <i>public user</i> is present in the list of subjects with readPermission on PID.

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Field	Type	MV	Store	Index	Description
Index. <b>isService</b>	boolean	False	True	True	Set to true if document is a member node service description document. Use to filter search results for to exclude or include member node services.
Index. <b>isSpatial</b>	string	False	True	True	Set to “Y” for records that contain spatial information
Index. <b>keyConcept</b>	string	True	True	True	Terms drawn from a controlled vocabulary of concepts that are applicable to the content described by the metadata document.
Index. <b>keywords</b>	string	True	True	True	Keywords recorded in the science metadata document. These may be controlled by the generator of the metadata or by the metadata standard of the document, but are effectively uncontrolled within the DataONE context.
Index. <b>keywordsText</b>	text_general	True	False	True	Copy from keywords
Index. <b>kingdom</b>	string	True	True	True	Taxonomic kingdom(s)
Index. <b>LTERSite</b>	string	False	True	True	Data provider organization identifier, for sources within the LTER network.
Index. <b>mediaType</b>	string	False	True	True	The name attribute of the media type element in system metadata. Indicates media type of the object.
Index. <b>mediaTypeProperty</b>	string	True	True	True	A list of properties describing the media type in system metadata. The value is a concatenation of the property elements name attribute and the value of the property element.
Index. <b>namedLocation</b>	string	True	True	True	The name of the location(s) relevant to the content described by the metadata document.
Index. <b>noBoundingBox</b>	string	False	True	True	Set to “Y” if there is no bounding box information available (i.e., the east, west, north, south most coordinates)
Index. <b>northBoundCoord</b>	tfloat	False	True	True	Northern most latitude of the spatial extent, in decimal degrees, WGS84
Index. <b>numberReplicas</b>	int	False	True	False	Requested number of replicas for the object
Index. <b>obsoletedBy</b>	string	False	True	True	If set, indicates the object that replaces this record.
Index. <b>obsoletes</b>	string	False	True	True	If set, indicates the object that this record obsoletes.
Index. <b>ogcUrl</b>	text_general	False	True	False	URL for Open Geospatial Web service if available.

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Field	Type	MV	Store	Index	Description
<code>Index.order</code>	string	True	True	True	Taxonomic order name(s)
<code>Index.origin</code>	string	True	True	True	Investigator or Investigator organization name.
<code>Index.originator</code>	string	True	True	True	Investigator or Investigator organization name. Derived by normalizing origin.
<code>Index.originatorText</code>	text_general	True	False	True	
<code>Index.originText</code>	text_general	True	False	True	Copy from origin
<code>Index.parameter</code>	string	True	True	True	A characteristic, or variable, that is measured or derived as part of data-collection activities.
<code>Index.parameterText</code>	text_general	True	False	True	Copy from parameter
<code>Index.phylum</code>	string	True	True	True	Taxonomic phylum (or division) name(s)
<code>Index.placeKey</code>	text_general	True	True	True	A place name keyword, assigned by the metadata creator. It is one keyword from the thesaurus named in <placekt>
<code>Index.preferredReplicationMN</code>	string	True	True	False	A list of member node identifiers that are preferred replication targets for this object.
<code>Index.presentationCat</code>	string	False	True	True	Type of data being preserved (maps, text, etc.)
<code>Index.project</code>	string	False	True	True	The authorized name of a research effort for which data is collected. This name is often reduced to a convenient abbreviation or acronym. All investigators involved in a project should use a common, agreed-upon name.
<code>Index.projectText</code>	text_general	False	False	True	Copy from project
<code>Index.prov_generated</code>	string	True	True	True	A multi-valued field containing the identifiers of data objects that this program generated based on the PROV wasGeneratedBy, qualifiedAssociation, and hadPlan properties.
<code>Index.prov_generatedByExecution</code>	string	True	True	True	A multi-valued field containing the identifiers of the executions that this data object was generated by based on the PROV wasGeneratedBy property.
<code>Index.prov_generatedByProgram</code>	string	True	True	True	A multi-valued field containing the identifiers of the programs that this data object was generated by based on the PROV wasGeneratedBy, qualifiedAssociation, and hadPlan properties.

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Field	Type	MV	Store	Index	Description
Index. <b>prov_generatedByUser</b>	string	True	True	True	A multi-valued field containing the identifiers of the users that this data object was generated by based on the PROV wasGeneratedBy, qualifiedAssociation, and agent properties.
Index. <b>prov_hasDerivations</b>	string	True	True	True	A multi-valued field containing the identifiers of the data objects that were derivations of the source data object described by this metadata object, based on the PROV wasDerivedBy property.
Index. <b>prov_hasSources</b>	string	True	True	True	A multi-valued field containing the identifiers of the data objects that were sources to the derived data object described by this metadata object, based on the PROV wasDerivedBy property.
Index. <b>prov_instanceOfClass</b>	string	True	True	True	A multi-valued field containing the identifiers of the semantic classes that this object is an instance of, based on the PROV, ProvONE, and other ontologies.
Index. <b>prov_used</b>	string	True	True	True	A multi-valued field containing the identifiers of data objects that this program used based on the PROV used, qualifiedAssociation, and hadPlan properties.
Index. <b>prov_usedByExecution</b>	string	True	True	True	A multi-valued field containing the identifiers of the executions that used this data object based on the PROV used property.
Index. <b>prov_usedByProgram</b>	string	True	True	True	A multi-valued field containing the identifiers of the programs that used this data object based on the PROV used, qualifiedAssociation, and hadPlan properties.
Index. <b>prov_usedByUser</b>	string	True	True	True	A multi-valued field containing the identifiers of the users that used this data object based on the PROV used, qualifiedAssociation, and agent properties.
Index. <b>prov_wasDerivedFrom</b>	string	True	True	True	A multi-valued field containing the identifiers of data objects that this data object was derived from based on the PROV wasDerivedBy property.
Index. <b>prov_wasExecutedByExecution</b>	string	True	True	True	A multi-valued field containing the identifiers of the executions that used this program based on the PROV qualifiedAssociation, and hadPlan properties.
Index. <b>prov_wasExecutedByUser</b>	string	True	True	True	A multi-valued field containing the identifiers of the users that executed this program based on the PROV qualifiedAssociation, hadPlan, and agent properties.
Index. <b>prov_wasInformedBy</b>	string	True	True	True	A multi-valued field containing the identifiers of executions that this execution was informed by based on the PROV wasInformedBy property.
Index. <b>pubDate</b>	tdate	False	True	True	Publication date for the dataset (this may or may not be coincident with when the content is added to DataONE).
Index. <b>purpose</b>	text_general	False	True	True	The “Purpose” describes the “why” aspects of the data set (For example, why was the data set created?).
Index. <b>readPermission</b>	string	True	True	True	List of subjects (groups and individuals) that have read permission on PID.
Index. <b>relatedOrganizations</b>	string	True	True	True	

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Table 1 – continued from previous page

Field	Type	MV	Store	Index	Description
Index. <b>replicaMN</b>	string	True	True	True	One or more node Ids holding copies of the object.
Index. <b>replicationAllowed</b>	boolean	False	True	False	True if this object can be replicated.
Index. <b>replicaVerifiedDate</b>	tdate	True	True	False	
Index. <b>resourceMap</b>	string	True	True	True	List of resource map PIDs that reference this PID.
Index. <b>rightsHolder</b>	string	False	True	True	The <i>Subject</i> that acts as the rights holder for the object.
Index. <b>scientificName</b>	string	True	True	True	Taxonomic scientific name(s) at the most precise level available for the organisms of relevance to the dataset
Index. <b>sem_annotated_by</b>	string	True	True	True	
Index. <b>sem_annotates</b>	string	True	True	True	
Index. <b>sem_annotation</b>	string	True	True	True	
Index. <b>sem_comment</b>	string	True	True	True	
Index. <b>sensor</b>	string	True	True	True	Also called “instrument.” A device that is used for collecting data for a data set.
Index. <b>sensorText</b>	text_general	True	False	True	Copy from sensor.
Index. <b>seriesId</b>	string	False	True	True	The seriesId is an optional, unique Unicode string that identifies an object revision chain.
Index. <b>serviceCoupling</b>	string	False	True	True	Either ‘tight’, ‘mixed’, or ‘loose’. Tight coupled service work only on the data described by this metadata document. Loose coupling means service works on any data. Mixed coupling means service works on data described by this metadata document but may work on other data.
Index. <b>serviceDescription</b>	text_general	False	True	True	A human readable description of the member node service to assist discovery and to evaluate applicability.
Index. <b>serviceEndpoint</b>	string	True	True	True	A URL that indicates how to access the member node service.

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Table 1 – continued from previous page

Field	Type	MV	Store	Index	Description
Index. <b>serviceInput</b>	string	True	True	True	Aspect of the service that accepts a digital entity. Either a list of DataONE formatIds Urls or pid RESOLVE Urls that the member node service operates on. A pid RESOLVE url indicates a ‘tight’ coupled service - while a list of formatIds indicates a loose coupled service.
Index. <b>serviceOutput</b>	string	True	True	True	Aspect of the service that provides a digital entity resulting from operation of the service. A listing of DataONE formatId which this member node service produces.
Index. <b>serviceTitle</b>	text_general	False	True	True	A brief, human readable descriptive title for the member node service.
Index. <b>serviceType</b>	string	True	True	True	The type of service being provided by the member node.
Index. <b>site</b>	string	True	True	True	The name or description of the physical location where the data were collected
Index. <b>siteText</b>	text_general	True	False	True	Copy from site.
Index. <b>size</b>	ulong	False	True	True	The size of the object, in bytes.
Index. <b>source</b>	string	True	True	True	Also called “platform.” The mechanism used to support the sensor or instrument that gathers data
Index. <b>sourceText</b>	text_general	True	False	True	Copy from source.
Index. <b>southBoundCoord</b>	tfloat	False	True	True	Southern most latitude of the spatial extent, in decimal degrees, WGS84
Index. <b>species</b>	string	True	True	True	Taxonomic species name(s)
Index. <b>submitter</b>	string	False	True	True	The <i>Subject</i> name of the original submitter of the content to DataONE.
Index. <b>term</b>	string	True	True	True	A secondary subject area within which parameters can be categorized. Approved terms include “agricultural chemicals” and “atmospheric chemistry,” among many others. When entering a term in the LandVal Metadata Editor, users should select a standard expression from the pick list for terms if at all possible.
Index. <b>termText</b>	text_general	True	False	True	Copy from term.
Index. <b>text</b>	text_en_split	False	True	True	Full text of the metadata record, used to support full text searches

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Table 1 – continued from previous page

Field	Type	MV	Store	Index	Description
Index. <b>title</b>	text_general	False	True	True	Title of the dataset as recorded in the science metadata.
Index. <b>titlestr</b>	string	False	False	True	Copy from title.
Index. <b>topic</b>	string	True	True	True	The most general subject area within which a parameter is categorized. Approved topics include “agriculture,” “atmosphere,” and “hydrosphere,” among others.
Index. <b>topicText</b>	text_general	True	False	True	Copy from topic.
Index. <b>updateDate</b>	tdate	False	True	True	Copy from dateuploaded.
Index. <b>webUrl</b>	string	True	True	False	Link to the investigator’s web-site.
Index. <b>westBoundCoord</b>	tfloat	False	True	True	Western most longitude of the spatial extent, in decimal degrees, WGS84
Index. <b>writePermission</b>	string	True	True	True	List of subjects (groups and individuals) that have write permission on PID.

## 1.2 Dynamic Fields

Field	Type	MV	Store	Index	Description
<b>*_b</b>	boolean	False	True	True	
<b>*_bm</b>	boolean	True	True	True	
<b>*_bs</b>	boolean	True	True	True	
<b>*_c</b>	currency	False	True	True	
<b>*_coordinate</b>	tdouble	False	False	True	
<b>*_d</b>	double	False	True	True	
<b>*_dm</b>	tdouble	True	True	True	

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Table 2 – continued from previous page

Field	Type	MV	Store	Index	Description
<b>*_ds</b>	double	True	True	True	
<b>*_dt</b>	date	False	True	True	
<b>*_dtm</b>	tdate	True	True	True	
<b>*_dts</b>	date	True	True	True	
<b>*_en</b>	text_en	True	True	True	
<b>*_f</b>	float	False	True	True	
<b>*_fm</b>	tfloat	True	True	True	
<b>*_fs</b>	float	True	True	True	
<b>*_i</b>	int	False	True	True	
<b>*_im</b>	tint	True	True	True	
<b>*_is</b>	int	True	True	True	
<b>*_l</b>	long	False	True	True	
<b>*_lm</b>	tlong	True	True	True	
<b>*_ls</b>	long	True	True	True	
<b>*_p</b>	location	False	True	True	
<b>*_s</b>	string	False	True	True	

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Table 2 – continued from previous page

Field	Type	MV	Store	Index	Description
<b>*_sm</b>	string	True	True	True	
<b>*_ss</b>	string	True	True	True	
<b>*_t</b>	text_general	False	True	True	
<b>*_td</b>	tdouble	False	True	True	
<b>*_tdt</b>	tdate	False	True	True	
<b>*_tf</b>	tfloat	False	True	True	
<b>*_ti</b>	tint	False	True	True	
<b>*_tl</b>	tlong	False	True	True	
<b>*_tm</b>	text_general	True	True	True	
<b>*_txt</b>	text_general	True	True	True	
<b>attr_*</b>	text_general	True	True	True	
<b>ignored_*</b>	ignored	True	False	False	
<b>random_*</b>	random	False	False	False	



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Namespaces Referenced

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A compilation of XML namespaces and their abbreviations used by the Index Parser.

Prefix	Namespace
d200	<a href="http://ns.dataone.org/service/types/v2.0">http://ns.dataone.org/service/types/v2.0</a>
eml200	<a href="http://eml.ecoinformatics.org/eml-2.0.0">eml://ecoinformatics.org/eml-2.0.0</a>
eml201	<a href="http://eml.ecoinformatics.org/eml-2.0.1">eml://ecoinformatics.org/eml-2.0.1</a>
eml210	<a href="http://eml.ecoinformatics.org/eml-2.1.0">eml://ecoinformatics.org/eml-2.1.0</a>
eml211	<a href="http://eml.ecoinformatics.org/eml-2.1.1">eml://ecoinformatics.org/eml-2.1.1</a>
eml220	<a href="https://eml.ecoinformatics.org/eml-2.2.0">https://eml.ecoinformatics.org/eml-2.2.0</a>
cito	<a href="http://purl.org/spar/cito/">http://purl.org/spar/cito/</a>
dc	<a href="http://purl.org/dc/elements/1.1/">http://purl.org/dc/elements/1.1/</a>
dcterms	<a href="http://purl.org/dc/terms/">http://purl.org/dc/terms/</a>
dwc	<a href="http://rs.tdwg.org/dwc/terms/">http://rs.tdwg.org/dwc/terms/</a>
foaf	<a href="http://xmlns.com/foaf/0.1/">http://xmlns.com/foaf/0.1/</a>
ore	<a href="http://www.openarchives.org/ore/terms/">http://www.openarchives.org/ore/terms/</a>
rdf	<a href="http://www.w3.org/1999/02/22-rdf-syntax-ns#">http://www.w3.org/1999/02/22-rdf-syntax-ns#</a>
rdfl	<a href="http://www.w3.org/2001/01/rdf-schema#">http://www.w3.org/2001/01/rdf-schema#</a>
bibo	<a href="http://purl.org/ontology/bibo/">http://purl.org/ontology/bibo/</a>
dryad	<a href="http://purl.org/dryad/terms/">http://purl.org/dryad/terms/</a>
datacite	<a href="http://datacite.org/schema/kernel-3">http://datacite.org/schema/kernel-3</a>
xsi	<a href="http://www.w3.org/2001/XMLSchema-instance">http://www.w3.org/2001/XMLSchema-instance</a>
gmd	<a href="http://www.isotc211.org/2005/gmd">http://www.isotc211.org/2005/gmd</a>
gco	<a href="http://www.isotc211.org/2005/gco">http://www.isotc211.org/2005/gco</a>
gmx	<a href="http://www.isotc211.org/2005/gmx">http://www.isotc211.org/2005/gmx</a>
gml	<a href="http://www.opengis.net/gml/3.2">http://www.opengis.net/gml/3.2</a>
srv	<a href="http://www.isotc211.org/2005/srv">http://www.isotc211.org/2005/srv</a>
xlink	<a href="http://www.w3.org/1999/xlink">http://www.w3.org/1999/xlink</a>

**Index Processors**



## Field x FormatId Cross Reference

Index	FormatId
1	<a href="http://ecoinformatics.org/eml-2.0.0">eml://ecoinformatics.org/eml-2.0.0</a>
2	<a href="http://ecoinformatics.org/eml-2.0.1">eml://ecoinformatics.org/eml-2.0.1</a>
3	<a href="http://ecoinformatics.org/eml-2.1.0">eml://ecoinformatics.org/eml-2.1.0</a>
4	<a href="http://ecoinformatics.org/eml-2.1.1">eml://ecoinformatics.org/eml-2.1.1</a>
5	<a href="https://eml.ecoinformatics.org/eml-2.2.0">https://eml.ecoinformatics.org/eml-2.2.0</a>
6	<a href="http://www.openarchives.org/ore/terms">http://www.openarchives.org/ore/terms</a>
7	FGDC-STD-001-1998
8	FGDC-STD-001.1-1999
9	FGDC-STD-001.2-1999
10	<a href="http://www.esri.com/metadata/esriprof80.dtd">http://www.esri.com/metadata/esriprof80.dtd</a>
11	<a href="http://purl.org/ornl/schema/mercury/terms/v1.0">http://purl.org/ornl/schema/mercury/terms/v1.0</a>
12	<a href="http://purl.org/dryad/terms/">http://purl.org/dryad/terms/</a>
13	<a href="http://datadryad.org/profile/v3.1">http://datadryad.org/profile/v3.1</a>
14	<a href="http://dublincore.org/schemas/xmls/qdc/2008/02/11/qualifieddc.xsd">http://dublincore.org/schemas/xmls/qdc/2008/02/11/qualifieddc.xsd</a>
15	<a href="http://ns.dataone.org/metadata/schema/onedcx/v1.0">http://ns.dataone.org/metadata/schema/onedcx/v1.0</a>
16	<a href="http://datacite.org/schema/kernel-3.1">http://datacite.org/schema/kernel-3.1</a>
17	<a href="http://datacite.org/schema/kernel-3.0">http://datacite.org/schema/kernel-3.0</a>
18	<a href="http://www.w3.org/TR/rdf-syntax-grammar">http://www.w3.org/TR/rdf-syntax-grammar</a>
19	<a href="http://docs.annotatorjs.org/en/v1.2.x/annotation-format.html">http://docs.annotatorjs.org/en/v1.2.x/annotation-format.html</a>
20	<a href="http://www.isotc211.org/2005/gmd">http://www.isotc211.org/2005/gmd</a>
21	<a href="http://www.isotc211.org/2005/gmd-noaa">http://www.isotc211.org/2005/gmd-noaa</a>
22	<a href="http://www.isotc211.org/2005/gmd-pangaea">http://www.isotc211.org/2005/gmd-pangaea</a>
23	<a href="http://www.openarchives.org/OAI/2.0/oai_dc/">http://www.openarchives.org/OAI/2.0/oai_dc/</a>

The following table indicates which formatIds have processing rules defined to set index field values when processing metadata. In the table, an “S” means the property is set from system metadata, an “X” means there is a rule defined to set the value, and blank indicates no rules are setting the field value (though Solr copy fields are not considered here).

Table 1: FormatId x Solr Field

Field FormatId	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
LTERSite																				
abstract	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X			
attribute	X	X	X	X	X		X	X	X	X	X									
attributeDescription	X	X	X	X	X		X	X	X	X	X									
attributeLabel	X	X	X	X	X		X	X	X	X	X									
attributeName	X	X	X	X	X		X	X	X	X	X									
attributeUnit	X	X	X	X	X		X	X	X	X	X									
author	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X			
authorGivenName	X	X	X	X	X							X	X			X	X			
authorGivenNameSort	X	X	X	X	X							X	X			X	X			
authorLastName	X	X	X	X	X											X	X			
authorSurName	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X			
authorSurNameSort	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X			
authoritativeMN	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
awardNumber					X															
awardTitle					X															
beginDate	X	X	X	X	X		X	X	X	X	X			X	X	X	X			
blockedReplicationMN	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
changePermission	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
checksum	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
checksumAlgorithm	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
class	X	X	X	X	X		X	X	X	X	X									
contactOrganization	X	X	X	X	X		X	X	X	X	X			X	X	X	X			
contactOrganizationText																				
dataUrl																				
datasource	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
dateModified	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
datePublished																				
dateUploaded	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
decade																				
documents																				
eastBoundCoord	X	X	X	X	X		X	X	X	X	X									
edition							X	X	X	X	X									
endDate	X	X	X	X	X		X	X	X	X	X			X	X	X	X			
family	X	X	X	X	X		X	X	X	X	X									
fileID	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
fileName	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
formatId	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
formatType	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
funderIdentifier					X															
funderName					X															
funding					X															
fundingText																				
gcmdKeyword							X	X	X	X	X									
genus	X	X	X	X	X		X	X	X	X	X									
geoform							X	X	X	X	X									
geohash_1	X	X	X	X	X		X	X	X	X	X			X	X					
geohash_2	X	X	X	X	X		X	X	X	X	X									
geohash_3	X	X	X	X	X		X	X	X	X	X									

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Table 1 – continued from previous page

Field FormatId	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
geohash_4	X	X	X	X	X		X	X	X	X	X								
geohash_5	X	X	X	X	X		X	X	X	X	X								
geohash_6	X	X	X	X	X		X	X	X	X	X								
geohash_7	X	X	X	X	X		X	X	X	X	X								
geohash_8	X	X	X	X	X		X	X	X	X	X								
geohash_9	X	X	X	X	X		X	X	X	X	X								
id	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
identifier																			
investigator	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		
investigatorText																			
isDocumentedBy																			
isPublic	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
isService	X	X	X	X	X														
isSpatial																			
keyConcept																			
keywords	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		
keywordsText																			
kingdom	X	X	X	X	X		X	X	X	X	X								
mediaType	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
mediaTypeProperty	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
namedLocation																			
noBoundingBox																			
northBoundCoord	X	X	X	X	X		X	X	X	X	X			X	X				
numberReplicas	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
obsoletedBy	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
obsoletes	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
ogcUrl																			
order	X	X	X	X	X		X	X	X	X	X								
origin	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		
originText																			
originator																			
originatorText																			
parameter																			
parameterText																			
phylum	X	X	X	X	X		X	X	X	X	X								
placeKey							X	X	X	X	X								
preferredReplicationMN	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
presentationCat							X	X	X	X	X								
project	X	X	X	X	X														
projectText																			
prov_generated							X												X
prov_generatedByExecution							X												X
prov_generatedByProgram							X												X
prov_generatedByUser							X												X
prov_hasDerivations							X												X
prov_hasSources																			
prov_instanceOfClass							X												X
prov_used							X												X
prov_usedByExecution							X												X

Table 1 – continued from previous page

Field FormatId	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
prov_usedByProgram						X													X	
prov_usedByUser						X														X
prov_wasDerivedFrom						X														X
prov_wasExecutedByExecution						X														X
prov_wasExecutedByUser						X														X
prov_wasInformedBy						X														X
pubDate	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X			
purpose							X	X	X	X	X									
readPermission	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
relatedOrganizations																				
replicaMN	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
replicaVerifiedDate	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
replicationAllowed	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
resourceMap																				
rightsHolder	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
scientificName	X	X	X	X	X		X	X	X	X	X	X	X							
sem_annotated_by																				
sem_annotates																				
sem_annotation					X															X
sem_comment																				
sensor																				
sensorText																				
seriesId	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
serviceCoupling																				
serviceDescription	X	X	X	X	X															
serviceEndpoint	X	X	X	X	X															
serviceInput																				
serviceOutput																				
serviceTitle	X	X	X	X	X															
serviceType																				
site	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X			
siteText																				
size	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
source																				
sourceText																				
southBoundCoord	X	X	X	X	X		X	X	X	X	X									
species	X	X	X	X	X		X	X	X	X	X									
submitter	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
term																				
termText																				
text	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X			
title	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X			
titlestr																				
topic																				
topicText																				
updateDate																				
webUrl							X	X	X	X	X									
westBoundCoord	X	X	X	X	X		X	X	X	X	X									
writePermission	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S

## System Metadata Parser

## 4.1 Fields

Solr Field	Multi	Dedupe	Path
<i>Index.id</i>	False	False	/d200:systemMetadata/identifier/text ()  Processor: SolrField Configuration: <i>systemMetadata200Subprocessor.id</i>
<i>Index.seriesId</i>	False	False	/d200:systemMetadata/seriesId/text ()  Processor: SolrField Configuration: <i>systemMetadata200Subprocessor.seriesId</i>
<i>Index.fileName</i>	False	False	/d200:systemMetadata/fileName/text ()  Processor: SolrField Configuration: <i>systemMetadata200Subprocessor.fileName</i>
<i>Index.mediaType</i>	False	False	/d200:systemMetadata/mediaType/@name  Processor: SolrField Configuration: <i>systemMetadata200Subprocessor.mediaType</i>

Continued on next page

Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Path
<i>Index.mediaTypeProperty</i>	False		<pre>/d200:systemMetadata/mediaType/property -&gt;{[[ mediaTypePropertyName] [mediaTypePropertyValue]] ↔}; mediaTypePropertyName = @name; mediaTypePropertyValue = text ()</pre> <p>Processor: <b>CommonRootSolrField</b>  Configuration: <i>systemMetadata200Subprocessor.mediaTypeProperty</i></p>
<i>Index.formatId</i>	False	False	<pre>/d200:systemMetadata/formatId/text ()</pre> <p>Processor: <b>SolrField</b>  Configuration: <i>systemMetadata200Subprocessor.formatId</i></p>
<i>Index.formatType</i>	False	False	<pre>/d200:systemMetadata/formatId/text ()</pre> <p>Processor: <b>SolrField</b>  Configuration: <i>systemMetadata200Subprocessor.formatType</i>  Converter: <b>FormatIdToFormatTypeConverter</b></p>
<i>Index.size</i>	False	False	<pre>/d200:systemMetadata/size/text ()</pre> <p>Processor: <b>SolrField</b>  Configuration: <i>systemMetadata200Subprocessor.size</i></p>
<i>Index.checksum</i>	False	False	<pre>/d200:systemMetadata/checksum/text ()</pre> <p>Processor: <b>SolrField</b>  Configuration: <i>systemMetadata200Subprocessor.checksum</i></p>
<i>Index.submitter</i>	False	False	<pre>/d200:systemMetadata/submitter/text ()</pre> <p>Processor: <b>SolrField</b>  Configuration: <i>systemMetadata200Subprocessor.submitter</i></p>

Continued on next page

Table 1 – continued from previous page

Solr Field	Multi	Duplicate	Path
<i>Index. checksumAlgorithm</i>	False	False	/d200:systemMetadata/checksum/@algorithm  Processor: SolrField Configuration: <i>systemMetadata200Subprocessor.checksumAlgorithm</i>
<i>Index.rightsHolder</i>	False	False	/d200:systemMetadata/rightsHolder/text ()  Processor: SolrField Configuration: <i>systemMetadata200Subprocessor.rightsHolder</i>
<i>Index. replicationAllowed</i>	False	False	/d200:systemMetadata/replicationPolicy/ ↪@replicationAllowed  Processor: SolrField Configuration: <i>systemMetadata200Subprocessor.replicationAllowed</i>
<i>Index.numberReplicas</i>	False	False	/d200:systemMetadata/replicationPolicy/ ↪@numberReplicas  Processor: SolrField Configuration: <i>systemMetadata200Subprocessor.numberReplicas</i>
<i>Index. preferredReplicationMN</i>	True	False	/d200:systemMetadata/replicationPolicy/ ↪preferredMemberNode/ text ()  Processor: SolrField Configuration: <i>systemMetadata200Subprocessor.preferredReplicationMN</i>
<i>Index. blockedReplicationMN</i>	True	False	/d200:systemMetadata/replicationPolicy/ ↪blockedMemberNode/ text ()  Processor: SolrField Configuration: <i>systemMetadata200Subprocessor.blockedReplicationMN</i>

Continued on next page

Table 1 – continued from previous page

Solr Field	Multi	Duplicate	Path
<i>Index.obsoletes</i>	False	False	/d200:systemMetadata/obsoletes/text ()  Processor: SolrField Configuration: <i>systemMetadata200Subprocessor.obsoletes</i>
<i>Index.obsoletedBy</i>	False	False	/d200:systemMetadata/obsoletedBy/text ()  Processor: SolrField Configuration: <i>systemMetadata200Subprocessor.obsoletedBy</i>
<i>Index.dateUploaded</i>	False	False	/d200:systemMetadata/dateUploaded/text ()  Processor: SolrField Configuration: <i>systemMetadata200Subprocessor.dateUploaded</i> Converter: SolrDateConverter
<i>Index.dateModified</i>	False	False	/d200:systemMetadata/dateSysMetadataModified/ ↪text ()  Processor: SolrField Configuration: <i>systemMetadata200Subprocessor.dateModified</i> Converter: SolrDateConverter
<i>Index.datasource</i>	False	False	/d200:systemMetadata/originMemberNode/text ()  Processor: SolrField Configuration: <i>systemMetadata200Subprocessor.datasource</i>
<i>Index.authoritativeMN</i>	False	False	/d200:systemMetadata/authoritativeMemberNode/ ↪text ()  Processor: SolrField Configuration: <i>systemMetadata200Subprocessor.authoritativeMN</i>

Continued on next page

Table 1 – continued from previous page

Solr Field	Multi	Duplicate	Path
<i>Index.replicaMN</i>	True	False	/d200:systemMetadata/replica/replicaMemberNode/ ↪text ()  Processor: SolrField Configuration: <i>systemMetadata200Subprocessor.replicaMN</i>
<i>Index.replicationStatus</i>	True	False	/d200:systemMetadata/replica/replicationStatus/ ↪text ()  Processor: SolrField Configuration: <i>systemMetadata200Subprocessor.replicationStatus</i>
<i>Index.replicaVerifiedDate</i>	True	False	/d200:systemMetadata/replica/replicaVerified/ ↪text ()  Processor: SolrField Configuration: <i>systemMetadata200Subprocessor.replicaVerifiedDate</i> Converter: SolrDateConverter
<i>Index.readPermission</i>	True	True	/d200:systemMetadata/accessPolicy/ ↪allow[permission= 'read']/ subject/text ()  Processor: SolrField Configuration: <i>systemMetadata200Subprocessor.readPermission</i>
<i>Index.writePermission</i>	True	True	/d200:systemMetadata/accessPolicy/ ↪allow[permission= 'write'] /subject/text ()  Processor: SolrField Configuration: <i>systemMetadata200Subprocessor.writePermission</i>

Continued on next page

Table 1 – continued from previous page

Solr Field	Multi	Duplicate	Path
<i>Index.changePermission</i>	True	True	/d200:systemMetadata/accessPolicy/ ↪allow[permission= 'changePermission']/subject/text ()  Processor: SolrField Configuration: <i>systemMetadata200Subprocessor.changePermission</i>
<i>Index.isPublic</i>	False	False	(//accessPolicy/allow[permission= 'read']/ ↪subject [text ()= 'public']/text ()   //accessPolicy/ ↪allow[permission= 'write']/subject [text ()='public']/text ()   // accessPolicy/allow[permission= 'changePermission ↪']/ subject [text ()='public']/text ()   // ↪rightsHolder [ text ()='public']/text () [1]  Processor: SolrField Configuration: <i>systemMetadata200Subprocessor.isPublic</i> Converter: BooleanMatchConverter
<i>Index.fileID</i>			Processor: ResolveSolrField Configuration: <i>systemMetadata200Subprocessor.fileID</i> Converter:

## 4.2 Bean Configurations

### 4.2.1 systemMetadata200Subprocessor.id

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↪springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↪class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="id"/>
    <constructor-arg name="xpath" value="/
↪d200:systemMetadata/identifier/text ()"/>
</bean>

```

### 4.2.2 systemMetadata200Subprocessor.seriesId



```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="seriesId"/>
    <constructor-arg name="xpath" value="/
↳d200:systemMetadata/seriesId/text()"/>
</bean>

```

### 4.2.3 systemMetadata200Subprocessor.fileName

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="fileName"/>
    <constructor-arg name="xpath" value="/
↳d200:systemMetadata/fileName/text()"/>
</bean>

```

### 4.2.4 systemMetadata200Subprocessor.mediaType

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="mediaType"/>
    <constructor-arg name="xpath" value="/
↳d200:systemMetadata/mediaType/@name"/>
</bean>

```

### 4.2.5 systemMetadata200Subprocessor.mediaTypeProperty

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳class="org.dataone.cn.indexer.parser.CommonRootSolrField" p:multivalue="true"
↳p:root-ref="mediaTypePropertyListRoot">
    <constructor-arg name="name" value=
↳"mediaTypeProperty"/>
</bean>

```

### 4.2.6 systemMetadata200Subprocessor.formatId

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="formatId"/>
    <constructor-arg name="xpath" value="/
↳d200:systemMetadata/formatId/text()"/>
</bean>

```

#### 4.2.7 systemMetadata200Subprocessor.formatType

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="formatType"/>
    <constructor-arg name="xpath" value="/
↳d200:systemMetadata/formatId/text()" />
    <property name="converter" ref=
↳"formatIdToFormatTypeConverter"/>
</bean>
```

#### 4.2.8 systemMetadata200Subprocessor.size

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="size"/>
    <constructor-arg name="xpath" value="/
↳d200:systemMetadata/size/text()" />
</bean>
```

#### 4.2.9 systemMetadata200Subprocessor.checksum

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="checksum"/>
    <constructor-arg name="xpath" value="/
↳d200:systemMetadata/checksum/text()" />
</bean>
```

#### 4.2.10 systemMetadata200Subprocessor.submitter

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="submitter"/>
    <constructor-arg name="xpath" value="/
↳d200:systemMetadata/submitter/text()" />
</bean>
```

#### 4.2.11 systemMetadata200Subprocessor.checksumAlgorithm

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value=
↳"checksumAlgorithm"/>
```

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```

                <constructor-arg name="xpath" value="/
↳d200:systemMetadata/checksum/@algorithm"/>
            </bean>

```

#### 4.2.12 systemMetadata200Subprocessor.rightsHolder

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="rightsHolder
↳"/>
    <constructor-arg name="xpath" value="/
↳d200:systemMetadata/rightsHolder/text()"/>
</bean>

```

#### 4.2.13 systemMetadata200Subprocessor.replicationAllowed

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value=
↳"replicationAllowed"/>
    <constructor-arg name="xpath" value="/
↳d200:systemMetadata/replicationPolicy/@replicationAllowed"/>
</bean>

```

#### 4.2.14 systemMetadata200Subprocessor.numberReplicas

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value=
↳"numberReplicas"/>
    <constructor-arg name="xpath" value="/
↳d200:systemMetadata/replicationPolicy/@numberReplicas"/>
</bean>

```

#### 4.2.15 systemMetadata200Subprocessor.preferredReplicationMN

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value=
↳"preferredReplicationMN"/>
    <constructor-arg name="xpath" value="/
↳d200:systemMetadata/replicationPolicy/preferredMemberNode/text()"/>
    <property name="multivalue" value="true"/>
</bean>

```

#### 4.2.16 systemMetadata200Subprocessor.blockedReplicationMN

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value=
↳"blockedReplicationMN"/>
    <constructor-arg name="xpath" value="/
↳d200:systemMetadata/replicationPolicy/blockedMemberNode/text ()"/>
    <property name="multivalue" value="true"/>
</bean>

```

#### 4.2.17 systemMetadata200Subprocessor.obsoletes

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="obsoletes"/>
    <constructor-arg name="xpath" value="/
↳d200:systemMetadata/obsoletes/text ()"/>
</bean>

```

#### 4.2.18 systemMetadata200Subprocessor.obsoletedBy

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="obsoletedBy"/
↳>
    <constructor-arg name="xpath" value="/
↳d200:systemMetadata/obsoletedBy/text ()"/>
</bean>

```

#### 4.2.19 systemMetadata200Subprocessor.dateUploaded

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="dateUploaded
↳"/>
    <constructor-arg name="xpath" value="/
↳d200:systemMetadata/dateUploaded/text ()"/>
    <property name="converter" ref="dateConverter"/>
</bean>

```

#### 4.2.20 systemMetadata200Subprocessor.dateModified

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="dateModified"
↳"/>
    <constructor-arg name="xpath" value="/
↳d200:systemMetadata/dateSysMetadataModified/text () "/>
    <property name="converter" ref="dateConverter"/>
</bean>

```

#### 4.2.21 systemMetadata200Subprocessor.datasource

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="datasource"/>
    <constructor-arg name="xpath" value="/
↳d200:systemMetadata/originMemberNode/text () "/>
</bean>

```

#### 4.2.22 systemMetadata200Subprocessor.authoritativeMN

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value=
↳"authoritativeMN"/>
    <constructor-arg name="xpath" value="/
↳d200:systemMetadata/authoritativeMemberNode/text () "/>
</bean>

```

#### 4.2.23 systemMetadata200Subprocessor.replicaMN

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="replicaMN"/>
    <constructor-arg name="xpath" value="/
↳d200:systemMetadata/replica/replicaMemberNode/text () "/>
    <property name="multivalue" value="true"/>
</bean>

```

#### 4.2.24 systemMetadata200Subprocessor.replicationStatus

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="replicationStatus"/>
    <constructor-arg name="xpath" value="/d200:systemMetadata/replica/
↳replicationStatus/text () "/>

```

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```

    <property name="multivalue" value="true"/>
  </bean>

```

#### 4.2.25 systemMetadata200Subprocessor.replicaVerifiedDate

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value=
↳"replicaVerifiedDate"/>
    <constructor-arg name="xpath" value="/
↳d200:systemMetadata/replica/replicaVerified/text()"/>
    <property name="multivalue" value="true"/>
    <property name="converter" ref="dateConverter"/>
</bean>

```

#### 4.2.26 systemMetadata200Subprocessor.readPermission

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value=
↳"readPermission"/>
    <constructor-arg name="xpath" value="/
↳d200:systemMetadata/accessPolicy/allow[permission='read']/subject/text()"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>

```

#### 4.2.27 systemMetadata200Subprocessor.writePermission

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value=
↳"writePermission"/>
    <constructor-arg name="xpath" value="/
↳d200:systemMetadata/accessPolicy/allow[permission='write']/subject/text()"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>

```

#### 4.2.28 systemMetadata200Subprocessor.changePermission

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value=
↳"changePermission"/>

```

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```

        <constructor-arg name="xpath" value="/
↪d200:systemMetadata/accessPolicy/allow[permission= 'changePermission']/subject/
↪text()"/>
        <property name="multivalue" value="true"/>
        <property name="dedupe" value="true"/>
    </bean>

```

#### 4.2.29 systemMetadata200Subprocessor.isPublic

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↪springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↪class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="isPublic"/>
    <constructor-arg name="xpath" value="(//
↪accessPolicy/allow[permission= 'read']/subject[text()='public']/text() | //
↪accessPolicy/allow[permission= 'write']/subject[text()='public']/text() | //
↪accessPolicy/allow[permission= 'changePermission']/subject[text()='public']/text()
↪| //rightsHolder[text()='public']/text())[1]"/>
    <property name="converter" ref=
↪"booleanPublicConverter"/>
</bean>

```

#### 4.2.30 systemMetadata200Subprocessor.fileID

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↪springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↪class="org.dataone.cn.indexer.parser.ResolveSolrField">
    <constructor-arg name="name" value="dataUrl"/>
</bean>

```





---

## Semantic Annotation from JSON

---

Describes parser configuration for: `annotatorSubprocessor`

### 5.1 Format IDs Processed

This parser processes the following DataONE format IDs:

- AnnotatorJS 1.2.x Annotation model  
formatId: `http://docs.annotatorjs.org/en/v1.2.x/annotation-format.html`

A full list of DataONE format IDs can be found at <https://cn.dataone.org/cn/v2/formats/>

### 5.2 Fields

The following fields in the solr index are populated from values retrieved from this type of metadata document. Note that these are in addition to the information extracted from *System Metadata Parser*.

Solr Field	Multi	Dedupe	Source
<i>Index.sem_annotation</i>	False	False	<pre>SELECT ?sem_annotation WHERE {     &lt;\${CONCEPT_URI}&gt; rdfs:subClassOf+     ↪?sem_annotation . }</pre> <p>Processor: SparqlField Configuration: <i>annotation.expansion</i></p>
Index.sem_annotation_bioportal_sm	False	False	<pre>SELECT ?sem_annotation_bioportal_sm WHERE {     &lt;\${CONCEPT_URI}&gt; rdfs:subClassOf+     ↪?sem_annotation_bioportal_sm . }</pre> <p>Processor: SparqlField Configuration: <i>annotation.bioportal.expansion</i></p>
Index.sem_annotation_esor_sm	False	False	<pre>SELECT ?sem_annotation_esor_sm WHERE {     &lt;\${CONCEPT_URI}&gt; rdfs:subClassOf+     ↪?sem_annotation_esor_sm . }</pre> <p>Processor: SparqlField Configuration: <i>annotation.esor.expansion</i></p>
Index.sem_annotation_cosine_sm	False	False	<pre>SELECT ?sem_annotation_cosine_sm WHERE {     &lt;\${CONCEPT_URI}&gt; rdfs:subClassOf+     ↪?sem_annotation_cosine_sm . }</pre> <p>Processor: SparqlField Configuration: <i>annotation.cosine.expansion</i></p>

## 5.3 Bean Configurations

### 5.3.1 annotation.expansion

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↪org/2001/XMLSchema-instance" xmlns:p="http://www.springframework.org/schema/p" id=
↪"annotation.expansion" class="org.dataone.cn.indexer.annotation.SparqlField">
    <constructor-arg name="name" value="sem_annotation"/>
</bean>
```

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```

<constructor-arg name="query">
  <value>
    <![CDATA[
PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>
PREFIX owl: <http://www.w3.org/2002/07/owl#>

SELECT ?sem_annotation
WHERE {
    <${CONCEPT_URI}> rdfs:subClassOf+ ?sem_
↪annotation .
    }
    ]]>
  </value>
</constructor-arg>
<!--property name="multivalue" value="false" /-->
</bean>

```

### 5.3.2 annotation.bioportal.expansion

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↪org/2001/XMLSchema-instance" xmlns:p="http://www.springframework.org/schema/p" id=
↪"annotation.bioportal.expansion" class="org.dataone.cn.indexer.annotation.
↪SparqlField">
  <constructor-arg name="name" value="sem_annotation_bioportal_sm"/>
  <constructor-arg name="query">
    <value>
      <![CDATA[
PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>
PREFIX owl: <http://www.w3.org/2002/07/owl#>

SELECT ?sem_annotation_bioportal_sm
WHERE {
    <${CONCEPT_URI}> rdfs:subClassOf+ ?sem_
↪annotation_bioportal_sm .
    }
    ]]>
    </value>
  </constructor-arg>
</bean>

```

### 5.3.3 annotation.esor.expansion

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↪org/2001/XMLSchema-instance" xmlns:p="http://www.springframework.org/schema/p" id=
↪"annotation.esor.expansion" class="org.dataone.cn.indexer.annotation.SparqlField">
  <constructor-arg name="name" value="sem_annotation_esor_sm"/>
  <constructor-arg name="query">
    <value>
      <![CDATA[
PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>

```

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```

PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>
PREFIX owl: <http://www.w3.org/2002/07/owl#>

SELECT ?sem_annotation_esor_sm
WHERE {
    <${CONCEPT_URI}> rdfs:subClassOf+ ?sem_
↪annotation_esor_sm .
}
]]>
</value>
</constructor-arg>
</bean>

```

### 5.3.4 annotation.cosine.expansion

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↪org/2001/XMLSchema-instance" xmlns:p="http://www.springframework.org/schema/p" id=
↪"annotation.cosine.expansion" class="org.dataone.cn.indexer.annotation.SparqlField">
  <constructor-arg name="name" value="sem_annotation_cosine_sm"/>
  <constructor-arg name="query">
    <value>
      <![CDATA[
PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>
PREFIX owl: <http://www.w3.org/2002/07/owl#>

SELECT ?sem_annotation_cosine_sm
WHERE {
    <${CONCEPT_URI}> rdfs:subClassOf+ ?sem_
↪annotation_cosine_sm .
}
]]>
    </value>
  </constructor-arg>
</bean>

```

Describes parser configuration for: datacite3Subprocessor

### 6.1 Format IDs Processed

This parser processes the following DataONE format IDs:

- DataCite Metadata Schema version 3.1  
formatId: <http://datacite.org/schema/kernel-3.1>
- DataCite Metadata Schema version 3.0  
formatId: <http://datacite.org/schema/kernel-3.0>

A full list of DataONE format IDs can be found at <https://cn.dataone.org/cn/v2/formats/>

### 6.2 Fields

The following fields in the solr index are populated from values retrieved from this type of metadata document. Note that these are in addition to the information extracted from *System Metadata Parser*.

Solr Field	Multi	Dedupe	Source
<i>Index.author</i>	False	False	<pre>(/datacite:resource/datacite:creators/ ↔datacite:creator[1]/ datacite:creatorName[1]/text())[1]</pre> <p>Processor: SolrField Configuration: <i>datacite.author</i></p>
<i>Index.authorLastName</i>	False	False	<pre>(/datacite:resource/datacite:creators/ ↔datacite:creator[1]/ datacite:creatorName[1]/text())[1]</pre> <p>Processor: SolrField Configuration: <i>datacite.author_lname</i></p>
<i>Index.authorSurName</i>	False	False	<pre>(/datacite:resource/datacite:creators/ ↔datacite:creator[1]/ datacite:creatorName[1]/text())[1]</pre> <p>Processor: SolrField Configuration: <i>datacite.authorSurName</i></p>
<i>Index.authorSurNameSort</i>	False	False	<pre>(/datacite:resource/datacite:creators/ ↔datacite:creator[1]/ datacite:creatorName[1]/text())[1]</pre> <p>Processor: SolrField Configuration: <i>datacite.authorSurNameSort</i></p>
<i>Index.authorGivenName</i>	False	False	<pre>(/datacite:resource/datacite:creators/ ↔datacite:creator[1]/ datacite:creatorName[1]/text())[1]</pre> <p>Processor: SolrField Configuration: <i>datacite.authorGivenName</i></p>
<i>Index.authorGivenNameSort</i>	False	False	<pre>(/datacite:resource/datacite:creators/ ↔datacite:creator[1]/ datacite:creatorName[1]/text())[1]</pre> <p>Processor: SolrField Configuration: <i>datacite.authorGivenNameSort</i></p>
<i>Index.abstract</i>	False	False	<pre>(/datacite:resource/datacite:descriptions/ datacite:description[@descriptionType='Abstract ↔'])[1]</pre> <p>Processor: SolrField Configuration: <i>datacite.abstract</i></p>
42			<p style="text-align: right;"><b>Chapter 6. DataCite 3</b></p> <p>Processor: SolrField Configuration: <i>datacite.abstract</i></p>

## 6.3 Bean Configurations

### 6.3.1 datacite.author

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="datacite.author" class="org.dataone.cn.indexer.
↳parser.SolrField">
    <constructor-arg name="name" value="author"/>
    <constructor-arg name="xpath" value="(//datacite:resource/
↳datacite:creators/datacite:creator[1]/datacite:creatorName[1]/text())[1]"/>
</bean>
```

### 6.3.2 datacite.author\_lname

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="datacite.author_lname" class="org.dataone.cn.
↳indexer.parser.SolrField">
    <constructor-arg name="name" value="authorLastName"/>
    <constructor-arg name="xpath" value="(//datacite:resource/
↳datacite:creators/datacite:creator[1]/datacite:creatorName[1]/text())[1]"/>
    <property name="substringBefore" value="true"/>
    <property name="splitOnString" value=","/>
</bean>
```

### 6.3.3 datacite.authorSurName

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="datacite.authorSurName" class="org.dataone.cn.
↳indexer.parser.SolrField">
    <constructor-arg name="name" value="authorSurName"/>
    <constructor-arg name="xpath" value="(//datacite:resource/
↳datacite:creators/datacite:creator[1]/datacite:creatorName[1]/text())[1]"/>
    <property name="substringBefore" value="true"/>
    <property name="splitOnString" value=","/>
</bean>
```

### 6.3.4 datacite.authorSurNameSort

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="datacite.authorSurNameSort" class="org.dataone.cn.
↳indexer.parser.SolrField">
    <constructor-arg name="name" value="authorSurNameSort"/>
    <constructor-arg name="xpath" value="(//datacite:resource/
↳datacite:creators/datacite:creator[1]/datacite:creatorName[1]/text())[1]"/>
    <property name="substringBefore" value="true"/>
    <property name="splitOnString" value=","/>
</bean>
```

### 6.3.5 datacite.authorGivenName

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="datacite.authorGivenName" class="org.dataone.cn.
↳indexer.parser.SolrField">
    <constructor-arg name="name" value="authorGivenName"/>
    <constructor-arg name="xpath" value="(//datacite:resource/
↳datacite:creators/datacite:creator[1]/datacite:creatorName[1]/text())[1]"/>
    <property name="substringAfter" value="true"/>
    <property name="splitOnString" value=","/>
</bean>
```

### 6.3.6 datacite.authorGivenNameSort

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="datacite.authorGivenNameSort" class="org.dataone.
↳cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="authorGivenNameSort"/>
    <constructor-arg name="xpath" value="(//datacite:resource/
↳datacite:creators/datacite:creator[1]/datacite:creatorName[1]/text())[1]"/>
    <property name="substringAfter" value="true"/>
    <property name="splitOnString" value=","/>
</bean>
```

### 6.3.7 datacite.abstract

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="datacite.abstract" class="org.dataone.cn.indexer.
↳parser.SolrField">
    <constructor-arg name="name" value="abstract"/>
    <constructor-arg name="xpath" value="(//datacite:resource/
↳datacite:descriptions/datacite:description[@descriptionType='Abstract'])[1]/
↳text())[1]"/>
    <property name="multivalued" value="false"/>
    <property name="dedupe" value="false"/>
</bean>
```

### 6.3.8 datacite.title

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="datacite.title" class="org.dataone.cn.indexer.
↳parser.SolrField">
    <constructor-arg name="name" value="title"/>
    <constructor-arg name="xpath" value="(//datacite:resource/datacite:titles/
↳datacite:title[1]/text())[1]"/>
</bean>
```



### 6.3.9 datacite.pubDate

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="datacite.pubDate" class="org.dataone.cn.indexer.
↳parser.SolrField">
    <constructor-arg name="name" value="pubDate"/>
    <constructor-arg name="xpath" value="( /datacite:resource/
↳datacite:publicationYear[1]/text() ) [1]"/>
    <property name="converter" ref="dateConverter"/>
</bean>
```

### 6.3.10 datacite.keywords

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="datacite.keywords" class="org.dataone.cn.indexer.
↳parser.SolrField">
    <constructor-arg name="name" value="keywords"/>
    <constructor-arg name="xpath" value="/datacite:resource/
↳datacite:subjects/datacite:subject/text() "/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>
```

### 6.3.11 datacite.beginDate

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="datacite.beginDate" class="org.dataone.cn.indexer.
↳parser.SolrField">
    <constructor-arg name="name" value="beginDate"/>
    <constructor-arg name="xpath" value="( /datacite:resource/datacite:dates/
↳datacite:date[@dateType='Collected'] [1]/text() ) [1]"/>
    <property name="substringBefore" value="true"/>
    <property name="splitOnString" value="/" />
    <property name="converter" ref="dateConverter"/>
</bean>
```

### 6.3.12 datacite.endDate

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="datacite.endDate" class="org.dataone.cn.indexer.
↳parser.SolrField">
    <constructor-arg name="name" value="endDate"/>
    <constructor-arg name="xpath" value="( /datacite:resource/datacite:dates/
↳datacite:date[@dateType='Collected'] [1]/text() ) [1]"/>
    <property name="substringAfter" value="true"/>
    <property name="splitOnString" value="/" />
    <property name="converter" ref="dateConverter"/>
</bean>
```

### 6.3.13 datacite.origin

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="datacite.origin" class="org.dataone.cn.indexer.
↳parser.SolrField">
    <constructor-arg name="name" value="origin"/>
    <constructor-arg name="xpath" value="/datacite:resource/
↳datacite:creators/datacite:creator/datacite:creatorName/text () "/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>
```

### 6.3.14 datacite.investigator

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="datacite.investigator" class="org.dataone.cn.
↳indexer.parser.SolrField">
    <constructor-arg name="name" value="investigator"/>
    <constructor-arg name="xpath" value="/datacite:resource/
↳datacite:creators/datacite:creator/datacite:creatorName/text () | /datacite:resource/
↳datacite:contributors/datacite:contributor[@contributorType='DataCollector']/
↳datacite:contributorName/text () "/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>
```

### 6.3.15 datacite.contactOrganization

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="datacite.contactOrganization" class="org.dataone.
↳cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="contactOrganization"/>
    <constructor-arg name="xpath" value="/datacite:resource/
↳datacite:contributors/datacite:contributor[@contributorType='HostingInstitution']/
↳datacite:contributorName/text () "/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>
```

### 6.3.16 datacite.site

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="datacite.site" class="org.dataone.cn.indexer.
↳parser.SolrField">
    <constructor-arg name="name" value="site"/>
    <constructor-arg name="xpath" value="/datacite:resource/
↳datacite:geoLocations/datacite:geoLocation/datacite:geoLocationPlace/text () "/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>
```

### 6.3.17 datacite.boxSpatialBoundCoordinates

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="datacite.boxSpatialBoundCoordinates" class="org.
↳dataone.cn.indexer.parser.DataCiteSpatialBoxBoundingCoordinatesSolrField">
    <property name="pointXPath" value="(//datacite:resource/
↳datacite:geoLocations/datacite:geoLocation/datacite:geoLocationPoint[1]/text())[1]"/
↳>
        <property name="boxXPath" value="(//datacite:resource/
↳datacite:geoLocations/datacite:geoLocation/datacite:geoLocationBox[1]/text())[1]"/>
    </bean>
```

### 6.3.18 datacite.boxSpatialGeohash

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="datacite.boxSpatialGeohash" class="org.dataone.cn.
↳indexer.parser.DataCiteSpatialBoxGeohashSolrField">
    <property name="pointXPath" value="(//datacite:resource/
↳datacite:geoLocations/datacite:geoLocation/datacite:geoLocationPoint[1]/text())[1]"/
↳>
        <property name="boxXPath" value="(//datacite:resource/
↳datacite:geoLocations/datacite:geoLocation/datacite:geoLocationBox[1]/text())[1]"/>
    </bean>
```

### 6.3.19 datacite.fileID

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="datacite.fileID" class="org.dataone.cn.indexer.
↳parser.ResolveSolrField">
    <constructor-arg name="name" value="fileID"/>
</bean>
```

### 6.3.20 datacite.fullText

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="datacite.fullText" class="org.dataone.cn.indexer.
↳parser.FullTextSolrField">
    <constructor-arg name="name" value="text"/>
    <constructor-arg name="xpath" value="//*/text()"/>
    <property name="combineNodes" value="true"/>
</bean>
```



Describes parser configuration for: dryad30Subprocessor

### 7.1 Format IDs Processed

This parser processes the following DataONE format IDs:

- Dryad Metadata Application Profile Version 3.0  
formatId: <http://purl.org/dryad/terms/>

A full list of DataONE format IDs can be found at <https://cn.dataone.org/cn/v2/formats/>

### 7.2 Fields

The following fields in the solr index are populated from values retrieved from this type of metadata document. Note that these are in addition to the information extracted from *System Metadata Parser*.

Solr Field	Multi	Dedupe	Source
<i>Index.abstract</i>	False	False	<pre>//dcterms:description[1]/text()</pre> <p>Processor: SolrField Configuration: <i>dryad.abstract</i></p>
<i>Index.author</i>	False	False	<pre>//dcterms:creator[1]/text()</pre> <p>Processor: SolrField Configuration: <i>dryad.author</i></p>
<i>Index.authorSurName</i>	False	False	<pre>//dcterms:creator[1]/text()</pre> <p>Processor: SolrField Configuration: <i>dryad.authorSurName</i></p>
<i>Index.authorSurNameSort</i>	False	False	<pre>//dcterms:creator[1]/text()</pre> <p>Processor: SolrField Configuration: <i>dryad.authorSurNameSort</i></p>
<i>Index.authorGivenName</i>	False	False	<pre>//dcterms:creator[1]/text()</pre> <p>Processor: SolrField Configuration: <i>dryad.authorGivenName</i></p>
<i>Index.authorGivenNameSort</i>	False	False	<pre>//dcterms:creator[1]/text()</pre> <p>Processor: SolrField Configuration: <i>dryad.authorGivenNameSort</i></p>
<i>Index.investigator</i>	True	True	<pre>//dcterms:creator/text()</pre> <p>Processor: SolrField Configuration: <i>dryad.investigator</i></p>
<i>Index.keywords</i>	True	False	<pre>//dcterms:subject/text()</pre> <p>Processor: SolrField Configuration: <i>dryad.keywords</i></p>
<i>Index.origin</i>	True	True	<pre>//dcterms:creator/text()</pre>
<b>50</b>			<p style="text-align: right;"><b>Chapter 7. Dryad 3.0</b></p> <p>Processor: SolrField Configuration: <i>dryad.origin</i></p>

## 7.3 Bean Configurations

### 7.3.1 dryad.abstract

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dryad.abstract" class="org.dataone.cn.indexer.
↳parser.SolrField">
    <constructor-arg name="name" value="abstract"/>
    <constructor-arg name="xpath" value="//dcterms:description[1]/text()"/>
</bean>
```

### 7.3.2 dryad.author

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dryad.author" class="org.dataone.cn.indexer.parser.
↳SolrField">
    <constructor-arg name="name" value="author"/>
    <constructor-arg name="xpath" value="//dcterms:creator[1]/text()"/>
</bean>
```

### 7.3.3 dryad.authorSurName

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dryad.authorSurName" class="org.dataone.cn.indexer.
↳parser.SolrField">
    <constructor-arg name="name" value="authorSurName"/>
    <constructor-arg name="xpath" value="//dcterms:creator[1]/text()"/>
    <property name="substringBefore" value="true"/>
    <property name="splitOnString" value=","/>
</bean>
```

### 7.3.4 dryad.authorSurNameSort

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dryad.authorSurNameSort" class="org.dataone.cn.
↳indexer.parser.SolrField">
    <constructor-arg name="name" value="authorSurNameSort"/>
    <constructor-arg name="xpath" value="//dcterms:creator[1]/text()"/>
    <property name="substringBefore" value="true"/>
    <property name="splitOnString" value=","/>
</bean>
```

### 7.3.5 dryad.authorGivenName

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dryad.authorGivenName" class="org.dataone.cn.
↳indexer.parser.SolrField">
    <constructor-arg name="name" value="authorGivenName"/>
```

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```

    <constructor-arg name="xpath" value="//dcterms:creator[1]/text ()" />
    <property name="substringAfter" value="true" />
    <property name="splitOnString" value="," />
</bean>

```

### 7.3.6 dryad.authorGivenNameSort

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dryad.authorGivenNameSort" class="org.dataone.cn.
↳indexer.parser.SolrField">
    <constructor-arg name="name" value="authorGivenNameSort" />
    <constructor-arg name="xpath" value="//dcterms:creator[1]/text ()" />
    <property name="substringAfter" value="true" />
    <property name="splitOnString" value="," />
</bean>

```

### 7.3.7 dryad.investigator

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dryad.investigator" class="org.dataone.cn.indexer.
↳parser.SolrField">
    <constructor-arg name="name" value="investigator" />
    <constructor-arg name="xpath" value="//dcterms:creator/text ()" />
    <property name="multivalued" value="true" />
    <property name="dedupe" value="true" />
</bean>

```

### 7.3.8 dryad.keywords

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dryad.keywords" class="org.dataone.cn.indexer.
↳parser.SolrField">
    <constructor-arg name="name" value="keywords" />
    <constructor-arg name="xpath" value="//dcterms:subject/text ()" />
    <property name="multivalued" value="true" />
</bean>

```

### 7.3.9 dryad.origin

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dryad.origin" class="org.dataone.cn.indexer.parser.
↳SolrField">
    <constructor-arg name="name" value="origin" />
    <constructor-arg name="xpath" value="//dcterms:creator/text ()" />
    <property name="multivalued" value="true" />
    <property name="dedupe" value="true" />
</bean>

```



### 7.3.10 dryad.pubDate

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dryad.pubDate" class="org.dataone.cn.indexer.
↳parser.SolrField">
    <constructor-arg name="name" value="pubDate"/>
    <constructor-arg name="xpath" value="//dcterms:dateSubmitted/text ()"/>
    <property name="converter" ref="dateConverter"/>
</bean>
```

### 7.3.11 dryad.site

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dryad.site" class="org.dataone.cn.indexer.parser.
↳SolrField">
    <constructor-arg name="name" value="site"/>
    <constructor-arg name="xpath" value="//dcterms:spatial/text ()"/>
    <property name="multivalue" value="true"/>
</bean>
```

### 7.3.12 dryad.title

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dryad.title" class="org.dataone.cn.indexer.parser.
↳SolrField">
    <constructor-arg name="name" value="title"/>
    <constructor-arg name="xpath" value="//dcterms:title[1]/text ()"/>
</bean>
```

### 7.3.13 dryad.scientificName

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dryad.scientificName" class="org.dataone.cn.
↳indexer.parser.SolrField">
    <constructor-arg name="name" value="scientificName"/>
    <constructor-arg name="xpath" value="//dwc:scientificName/text ()"/>
    <property name="multivalue" value="true"/>
</bean>
```

### 7.3.14 dryad.fileID

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dryad.fileID" class="org.dataone.cn.indexer.parser.
↳ResolveSolrField">
    <constructor-arg name="name" value="fileID"/>
</bean>
```

### 7.3.15 dryad.fullText

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dryad.fullText" class="org.dataone.cn.indexer.
↳parser.FullTextSolrField">
    <constructor-arg name="name" value="text"/>
    <constructor-arg name="xpath" value="//*/text()"/>
    <property name="combineNodes" value="true"/>
</bean>
```

Describes parser configuration for: dryad31Subprocessor

### 8.1 Format IDs Processed

This parser processes the following DataONE format IDs:

- Dryad Metadata Application Profile Version 3.1  
formatId: <http://datadryad.org/profile/v3.1>

A full list of DataONE format IDs can be found at <https://cn.dataone.org/cn/v2/formats/>

### 8.2 Fields

The following fields in the solr index are populated from values retrieved from this type of metadata document. Note that these are in addition to the information extracted from *System Metadata Parser*.

Solr Field	Multi	Dedupe	Source
<i>Index.abstract</i>	False	False	<pre>//dcterms:description[1]/text()</pre> <p>Processor: SolrField Configuration: <i>dryad.abstract</i></p>
<i>Index.author</i>	False	False	<pre>//dcterms:creator[1]/text()</pre> <p>Processor: SolrField Configuration: <i>dryad.author</i></p>
<i>Index.authorSurName</i>	False	False	<pre>//dcterms:creator[1]/text()</pre> <p>Processor: SolrField Configuration: <i>dryad.authorSurName</i></p>
<i>Index.authorSurNameSort</i>	False	False	<pre>//dcterms:creator[1]/text()</pre> <p>Processor: SolrField Configuration: <i>dryad.authorSurNameSort</i></p>
<i>Index.authorGivenName</i>	False	False	<pre>//dcterms:creator[1]/text()</pre> <p>Processor: SolrField Configuration: <i>dryad.authorGivenName</i></p>
<i>Index.authorGivenNameSort</i>	False	False	<pre>//dcterms:creator[1]/text()</pre> <p>Processor: SolrField Configuration: <i>dryad.authorGivenNameSort</i></p>
<i>Index.investigator</i>	True	True	<pre>//dcterms:creator/text()</pre> <p>Processor: SolrField Configuration: <i>dryad.investigator</i></p>
<i>Index.keywords</i>	True	False	<pre>//dcterms:subject/text()</pre> <p>Processor: SolrField Configuration: <i>dryad.keywords</i></p>
<i>Index.origin</i>	True	True	<pre>//dcterms:creator/text()</pre>

## 8.3 Bean Configurations

### 8.3.1 dryad.abstract

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dryad.abstract" class="org.dataone.cn.indexer.
↳parser.SolrField">
    <constructor-arg name="name" value="abstract"/>
    <constructor-arg name="xpath" value="//dcterms:description[1]/text()"/>
</bean>
```

### 8.3.2 dryad.author

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dryad.author" class="org.dataone.cn.indexer.parser.
↳SolrField">
    <constructor-arg name="name" value="author"/>
    <constructor-arg name="xpath" value="//dcterms:creator[1]/text()"/>
</bean>
```

### 8.3.3 dryad.authorSurName

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dryad.authorSurName" class="org.dataone.cn.indexer.
↳parser.SolrField">
    <constructor-arg name="name" value="authorSurName"/>
    <constructor-arg name="xpath" value="//dcterms:creator[1]/text()"/>
    <property name="substringBefore" value="true"/>
    <property name="splitOnString" value=","/>
</bean>
```

### 8.3.4 dryad.authorSurNameSort

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dryad.authorSurNameSort" class="org.dataone.cn.
↳indexer.parser.SolrField">
    <constructor-arg name="name" value="authorSurNameSort"/>
    <constructor-arg name="xpath" value="//dcterms:creator[1]/text()"/>
    <property name="substringBefore" value="true"/>
    <property name="splitOnString" value=","/>
</bean>
```

### 8.3.5 dryad.authorGivenName

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dryad.authorGivenName" class="org.dataone.cn.
↳indexer.parser.SolrField">
    <constructor-arg name="name" value="authorGivenName"/>
```

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```

    <constructor-arg name="xpath" value="//dcterms:creator[1]/text ()" />
    <property name="substringAfter" value="true" />
    <property name="splitOnString" value="," />
</bean>

```

### 8.3.6 dryad.authorGivenNameSort

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dryad.authorGivenNameSort" class="org.dataone.cn.
↳indexer.parser.SolrField">
    <constructor-arg name="name" value="authorGivenNameSort" />
    <constructor-arg name="xpath" value="//dcterms:creator[1]/text ()" />
    <property name="substringAfter" value="true" />
    <property name="splitOnString" value="," />
</bean>

```

### 8.3.7 dryad.investigator

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dryad.investigator" class="org.dataone.cn.indexer.
↳parser.SolrField">
    <constructor-arg name="name" value="investigator" />
    <constructor-arg name="xpath" value="//dcterms:creator/text ()" />
    <property name="multivalue" value="true" />
    <property name="dedupe" value="true" />
</bean>

```

### 8.3.8 dryad.keywords

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dryad.keywords" class="org.dataone.cn.indexer.
↳parser.SolrField">
    <constructor-arg name="name" value="keywords" />
    <constructor-arg name="xpath" value="//dcterms:subject/text ()" />
    <property name="multivalue" value="true" />
</bean>

```

### 8.3.9 dryad.origin

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dryad.origin" class="org.dataone.cn.indexer.parser.
↳SolrField">
    <constructor-arg name="name" value="origin" />
    <constructor-arg name="xpath" value="//dcterms:creator/text ()" />
    <property name="multivalue" value="true" />
    <property name="dedupe" value="true" />
</bean>

```

### 8.3.10 dryad.pubDate

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dryad.pubDate" class="org.dataone.cn.indexer.
↳parser.SolrField">
    <constructor-arg name="name" value="pubDate"/>
    <constructor-arg name="xpath" value="//dcterms:dateSubmitted/text()"/>
    <property name="converter" ref="dateConverter"/>
</bean>
```

### 8.3.11 dryad.site

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dryad.site" class="org.dataone.cn.indexer.parser.
↳SolrField">
    <constructor-arg name="name" value="site"/>
    <constructor-arg name="xpath" value="//dcterms:spatial/text()"/>
    <property name="multivalue" value="true"/>
</bean>
```

### 8.3.12 dryad.title

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dryad.title" class="org.dataone.cn.indexer.parser.
↳SolrField">
    <constructor-arg name="name" value="title"/>
    <constructor-arg name="xpath" value="//dcterms:title[1]/text()"/>
</bean>
```

### 8.3.13 dryad.scientificName

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dryad.scientificName" class="org.dataone.cn.
↳indexer.parser.SolrField">
    <constructor-arg name="name" value="scientificName"/>
    <constructor-arg name="xpath" value="//dwc:scientificName/text()"/>
    <property name="multivalue" value="true"/>
</bean>
```

### 8.3.14 dryad.fileID

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dryad.fileID" class="org.dataone.cn.indexer.parser.
↳ResolveSolrField">
    <constructor-arg name="name" value="fileID"/>
</bean>
```

### 8.3.15 dryad.fullText

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dryad.fullText" class="org.dataone.cn.indexer.
↳parser.FullTextSolrField">
    <constructor-arg name="name" value="text"/>
    <constructor-arg name="xpath" value="//*/text()"/>
    <property name="combineNodes" value="true"/>
</bean>
```



Describes parser configuration for: `dublinCoreExtendedSubprocessor`

### 9.1 Format IDs Processed

This parser processes the following DataONE format IDs:

- DataONE Dublin Core Extended v1.0  
formatId: `http://ns.dataone.org/metadata/schema/onedcx/v1.0`

A full list of DataONE format IDs can be found at <https://cn.dataone.org/cn/v2/formats/>

### 9.2 Fields

The following fields in the solr index are populated from values retrieved from this type of metadata document. Note that these are in addition to the information extracted from *System Metadata Parser*.

Solr Field	Multi	Dedupe	Source
<i>Index.abstract</i>	False	False	<pre>/**[local-name() = 'abstract'][1]/text()</pre> <p>Processor: SolrField Configuration: <i>dc.abstract</i></p>
<i>Index.author</i>	False	False	<pre>/**[local-name() = 'creator'][1]/text()</pre> <p>Processor: SolrField Configuration: <i>dc.author</i></p>
<i>Index.authorSurName</i>	False	False	<pre>/**[local-name() = 'creator'][1]/text()</pre> <p>Processor: SolrField Configuration: <i>dc.authorSurName</i></p>
<i>Index.authorSurNameSort</i>	False	False	<pre>/**[local-name() = 'creator'][1]/text()</pre> <p>Processor: SolrField Configuration: <i>dc.authorSurNameSort</i></p>
<i>Index.contactOrganization</i>	True	True	<pre>/**[local-name() = 'creator']/text()</pre> <p>Processor: SolrField Configuration: <i>dc.contactOrganization</i></p>
<i>Index.investigator</i>	True	True	<pre>/**[local-name() = 'creator']/text()</pre> <p>Processor: SolrField Configuration: <i>dc.investigator</i></p>
<i>Index.origin</i>	True	True	<pre>/**[local-name() = 'creator']/text()</pre> <p>Processor: SolrField Configuration: <i>dc.origin</i></p>
<i>Index.pubDate</i>	False	False	<pre>/**[local-name() = 'dateSubmitted']/text()</pre> <p>Processor: SolrField Configuration: <i>dc.pubDate</i></p> <p>Converter: SolrDateConverter</p>
<b>62</b> <i>Index.title</i>	False	False	<p style="text-align: right;"><b>Chapter 9. Dublin Core, Extended</b></p> <pre>(/**[local-name() = 'title'][1]/text())[1]</pre> <p>Processor: SolrField</p>

## 9.3 Bean Configurations

### 9.3.1 dc.abstract

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dc.abstract" class="org.dataone.cn.indexer.parser.
↳SolrField">
    <constructor-arg name="name" value="abstract"/>
    <constructor-arg name="xpath" value="//*[local-name() = 'abstract'] [1]/
↳text()"/>
</bean>
```

### 9.3.2 dc.author

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dc.author" class="org.dataone.cn.indexer.parser.
↳SolrField">
    <constructor-arg name="name" value="author"/>
    <constructor-arg name="xpath" value="//*[local-name() = 'creator'] [1]/
↳text()"/>
</bean>
```

### 9.3.3 dc.authorSurName

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dc.authorSurName" class="org.dataone.cn.indexer.
↳parser.SolrField">
    <constructor-arg name="name" value="authorSurName"/>
    <constructor-arg name="xpath" value="//*[local-name() = 'creator'] [1]/
↳text()"/>
    <property name="multivalue" value="false"/>
</bean>
```

### 9.3.4 dc.authorSurNameSort

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dc.authorSurNameSort" class="org.dataone.cn.
↳indexer.parser.SolrField">
    <constructor-arg name="name" value="authorSurNameSort"/>
    <constructor-arg name="xpath" value="//*[local-name() = 'creator'] [1]/
↳text()"/>
    <property name="multivalue" value="false"/>
</bean>
```

### 9.3.5 dc.contactOrganization

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dc.contactOrganization" class="org.dataone.cn.
↳indexer.parser.SolrField">
    <constructor-arg name="name" value="contactOrganization"/>
    <constructor-arg name="xpath" value="//*[local-name() = 'creator']/text()
↳"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>
```

### 9.3.6 dc.investigator

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dc.investigator" class="org.dataone.cn.indexer.
↳parser.SolrField">
    <constructor-arg name="name" value="investigator"/>
    <constructor-arg name="xpath" value="//*[local-name() = 'creator']/text()
↳"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>
```

### 9.3.7 dc.origin

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dc.origin" class="org.dataone.cn.indexer.parser.
↳SolrField">
    <constructor-arg name="name" value="origin"/>
    <constructor-arg name="xpath" value="//*[local-name() = 'creator']/text()
↳"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>
```

### 9.3.8 dc.pubDate

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dc.pubDate" class="org.dataone.cn.indexer.parser.
↳SolrField">
    <constructor-arg name="name" value="pubDate"/>
    <constructor-arg name="xpath" value="//*[local-name() = 'dateSubmitted']//
↳text()"/>
    <property name="converter" ref="dateConverter"/>
</bean>
```

### 9.3.9 dc.title

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dc.title" class="org.dataone.cn.indexer.parser.
↳SolrField">
    <constructor-arg name="name" value="title"/>
    <constructor-arg name="xpath" value="//*[local-name() = 'title'] [1]/
↳text() [1]"/>
</bean>

```

### 9.3.10 dc.keywords

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dc.keywords" class="org.dataone.cn.indexer.parser.
↳SolrField">
    <constructor-arg name="name" value="keywords"/>
    <constructor-arg name="xpath" value="//*[local-name() = 'subject']/text()
↳"/>
    <property name="multivalue" value="true"/>
</bean>

```

### 9.3.11 dc.beginDate

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dc.beginDate" class="org.dataone.cn.indexer.parser.
↳SolrField">
    <constructor-arg name="name" value="beginDate"/>
    <constructor-arg name="xpath" value="//*[local-name() = 'temporal
↳'] [not (@xsi:type='dcterms:Period') and not (@xsi:type='dc:Period') and not (@xsi:type=
↳'Period')]/text()"/>
    <property name="multivalue" value="false"/>
    <property name="converter" ref="dateConverter"/>
</bean>

```

### 9.3.12 dc.endDate

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dc.endDate" class="org.dataone.cn.indexer.parser.
↳SolrField">
    <constructor-arg name="name" value="endDate"/>
    <constructor-arg name="xpath" value="//*[local-name() = 'temporal
↳'] [not (@xsi:type='dcterms:Period') and not (@xsi:type='dc:Period') and not (@xsi:type=
↳'Period')]/text()"/>
    <property name="multivalue" value="false"/>
    <property name="converter" ref="dateConverter"/>
</bean>

```

### 9.3.13 dc.datePeriod

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳ org/2001/XMLSchema-instance" id="dc.datePeriod" class="org.dataone.cn.indexer.
↳ parser.TemporalPeriodSolrField">
    <constructor-arg name="xpath" value="//*[local-name() = 'temporal
↳ '][@xsi:type='dcterms:Period' or @xsi:type='dc:Period' or @xsi:type='Period']/text()
↳ "/>
</bean>

```

### 9.3.14 dc.site

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳ org/2001/XMLSchema-instance" id="dc.site" class="org.dataone.cn.indexer.parser.
↳ SolrField">
    <constructor-arg name="name" value="site"/>
    <constructor-arg name="xpath" value="//*[local-name() = 'spatial
↳ '][not(@xsi:type = 'dcterms:Box') and not(@xsi:type = 'dc:Box') and not(@xsi:type =
↳ 'Box')]/text()"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>

```

### 9.3.15 dc.boxSpatialBoundCoordinates

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳ org/2001/XMLSchema-instance" id="dc.boxSpatialBoundCoordinates" class="org.dataone.
↳ cn.indexer.parser.DublinCoreSpatialBoxBoundingCoordinatesSolrField">
    <constructor-arg name="xpath" value="//*[local-name() = 'spatial
↳ '][@xsi:type='dcterms:Box' or @xsi:type='dc:Box' or @xsi:type='Box'] [1]/text() [1]"/>
</bean>

```

### 9.3.16 dc.boxSpatialGeohash

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳ org/2001/XMLSchema-instance" id="dc.boxSpatialGeohash" class="org.dataone.cn.
↳ indexer.parser.DublinCoreSpatialBoxGeohashSolrField">
    <constructor-arg name="xpath" value="//*[local-name() = 'spatial
↳ '][@xsi:type='dcterms:Box' or @xsi:type='dc:Box' or @xsi:type='Box'] [1]/text() [1]"/>
</bean>

```

### 9.3.17 dc.fileID

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳ org/2001/XMLSchema-instance" id="dc.fileID" class="org.dataone.cn.indexer.parser.
↳ ResolveSolrField">
    <constructor-arg name="name" value="fileID"/>
</bean>

```

### 9.3.18 dc.fullText

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dc.fullText" class="org.dataone.cn.indexer.parser.
↳FullTextSolrField">
    <constructor-arg name="name" value="text"/>
    <constructor-arg name="xpath" value="//*/text()"/>
    <property name="combineNodes" value="true"/>
</bean>
```





---

## Dublin Core OAI Subprocessor

---

Describes parser configuration for: dublinCoreOAISubprocessor

### 10.1 Format IDs Processed

This parser processes the following DataONE format IDs:

- OAI-PMH Dublin Core v2.0, with online related resource  
formatId: [http://www.openarchives.org/OAI/2.0/oai\\_dc/](http://www.openarchives.org/OAI/2.0/oai_dc/)

A full list of DataONE format IDs can be found at <https://cn.dataone.org/cn/v2/formats/>

### 10.2 Fields

The following fields in the solr index are populated from values retrieved from this type of metadata document. Note that these are in addition to the information extracted from *System Metadata Parser*.

Solr Field	Multi	Dedupe	Source
<i>Index.abstract</i>	False	False	<pre>/**[local-name() = 'description'][1]/text()</pre> <p>Processor: SolrField Configuration: <i>dc.description</i></p>
<i>Index.originator</i>	True	True	<pre>/**[local-name() = 'publisher']/text()</pre> <p>Processor: SolrField Configuration: <i>dc.publisher</i></p>
<i>Index.pubDate</i>	False	False	<pre>/**[local-name() = 'date'][1]/text()</pre> <p>Processor: SolrField Configuration: <i>dc.date</i></p> <p>Converter: SolrDateConverter</p>
<i>Index.investigator</i>	True	True	<pre>/**[local-name() = 'contributor']/text()</pre> <p>Processor: SolrField Configuration: <i>dc.contributor</i></p>
<i>Index.author</i>	False	False	<pre>/**[local-name() = 'creator'][1]/text()</pre> <p>Processor: SolrField Configuration: <i>dc.author</i></p>
<i>Index.authorSurName</i>	False	False	<pre>/**[local-name() = 'creator'][1]/text()</pre> <p>Processor: SolrField Configuration: <i>dc.authorSurName</i></p>
<i>Index.authorSurNameSort</i>	False	False	<pre>/**[local-name() = 'creator'][1]/text()</pre> <p>Processor: SolrField Configuration: <i>dc.authorSurNameSort</i></p>
<i>Index.contactOrganization</i>	True	True	<pre>/**[local-name() = 'creator']/text()</pre> <p>Processor: SolrField Configuration: <i>dc.contactOrganization</i></p>
<b>70</b> <i>Index.investigator</i>	True	True	<p style="text-align: right;"><b>Chapter 10. Dublin Core OAI Subprocessor</b></p> <pre>/**[local-name() = 'creator']/text()</pre> <p>Processor: SolrField</p>

## 10.3 Bean Configurations

### 10.3.1 dc.description

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dc.description" class="org.dataone.cn.indexer.
↳parser.SolrField">
  <constructor-arg name="name" value="abstract"/>
  <constructor-arg name="xpath" value="//*[local-name() = 'description'] [1]/text ()
↳"/>
</bean>
```

### 10.3.2 dc.publisher

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dc.publisher" class="org.dataone.cn.indexer.parser.
↳SolrField">
  <constructor-arg name="name" value="originator"/>
  <constructor-arg name="xpath" value="//*[local-name() = 'publisher']/text ()"/>
  <property name="multivalue" value="true"/>
  <property name="dedupe" value="true"/>
</bean>
```

### 10.3.3 dc.date

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dc.date" class="org.dataone.cn.indexer.parser.
↳SolrField">
  <constructor-arg name="name" value="pubDate"/>
  <constructor-arg name="xpath" value="//*[local-name() = 'date'] [1]/text ()"/>
  <property name="converter" ref="dateConverter"/>
</bean>
```

### 10.3.4 dc.contributor

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dc.contributor" class="org.dataone.cn.indexer.
↳parser.SolrField">
  <constructor-arg name="name" value="investigator"/>
  <constructor-arg name="xpath" value="//*[local-name() = 'contributor']/text ()"/>
  <property name="multivalue" value="true"/>
  <property name="dedupe" value="true"/>
</bean>
```

### 10.3.5 dc.author

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dc.author" class="org.dataone.cn.indexer.parser.
↳SolrField">
    <constructor-arg name="name" value="author"/>
    <constructor-arg name="xpath" value="//*[local-name() = 'creator'] [1]/
↳text() "/>
</bean>

```

### 10.3.6 dc.authorSurName

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dc.authorSurName" class="org.dataone.cn.indexer.
↳parser.SolrField">
    <constructor-arg name="name" value="authorSurName"/>
    <constructor-arg name="xpath" value="//*[local-name() = 'creator'] [1]/
↳text() "/>
    <property name="multivalue" value="false"/>
</bean>

```

### 10.3.7 dc.authorSurNameSort

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dc.authorSurNameSort" class="org.dataone.cn.
↳indexer.parser.SolrField">
    <constructor-arg name="name" value="authorSurNameSort"/>
    <constructor-arg name="xpath" value="//*[local-name() = 'creator'] [1]/
↳text() "/>
    <property name="multivalue" value="false"/>
</bean>

```

### 10.3.8 dc.contactOrganization

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dc.contactOrganization" class="org.dataone.cn.
↳indexer.parser.SolrField">
    <constructor-arg name="name" value="contactOrganization"/>
    <constructor-arg name="xpath" value="//*[local-name() = 'creator']/text()
↳"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>

```

### 10.3.9 dc.investigator

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dc.investigator" class="org.dataone.cn.indexer.
↳parser.SolrField">
    <constructor-arg name="name" value="investigator"/>
    <constructor-arg name="xpath" value="//*[local-name() = 'creator']/text()
↳"/>

```

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```

    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>

```

### 10.3.10 dc.origin

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dc.origin" class="org.dataone.cn.indexer.parser.
↳SolrField">
    <constructor-arg name="name" value="origin"/>
    <constructor-arg name="xpath" value="//*[local-name() = 'creator']/text()
↳"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>

```

### 10.3.11 dc.title

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dc.title" class="org.dataone.cn.indexer.parser.
↳SolrField">
    <constructor-arg name="name" value="title"/>
    <constructor-arg name="xpath" value="(//*[local-name() = 'title'] [1]/
↳text() [1]"/>
</bean>

```

### 10.3.12 dc.keywords

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dc.keywords" class="org.dataone.cn.indexer.parser.
↳SolrField">
    <constructor-arg name="name" value="keywords"/>
    <constructor-arg name="xpath" value="//*[local-name() = 'subject']/text()
↳"/>
    <property name="multivalue" value="true"/>
</bean>

```

### 10.3.13 dc:relation

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dc:relation" class="org.dataone.cn.indexer.parser.
↳SolrField">
    <constructor-arg name="name" value="serviceEndpoint"/>
    <constructor-arg name="xpath" value="//*[local-name() = 'relation']/text()"/>
    <property name="multivalue" value="true"/>
</bean>

```

### 10.3.14 dc.fullText

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dc.fullText" class="org.dataone.cn.indexer.parser.
↳FullTextSolrField">
    <constructor-arg name="name" value="text"/>
    <constructor-arg name="xpath" value="//*/text()"/>
    <property name="combineNodes" value="true"/>
</bean>
```

---

## Ecological Markup Language, v2.0.0

---

Describes parser configuration for: eml200Subprocessor

### 11.1 Format IDs Processed

This parser processes the following DataONE format IDs:

- Ecological Metadata Language, version 2.0.0  
formatId: eml://ecoinformatics.org/eml-2.0.0

A full list of DataONE format IDs can be found at <https://cn.dataone.org/cn/v2/formats/>

### 11.2 Fields

The following fields in the solr index are populated from values retrieved from this type of metadata document. Note that these are in addition to the information extracted from *System Metadata Parser*.

Solr Field	Multi	Dedupe	Source
<i>Index.abstract</i>	False	False	<pre>//dataset/abstract/descendant::text ()</pre> <p>Processor: MergeSolrField Configuration: <i>eml.abstract</i></p>

Continued on next page

Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.keywords</i>	True	True	<p>//dataset/keywordSet/keyword/text ()</p> <p>Processor: SolrField Configuration: <i>eml.keywords</i></p>
<i>Index.title</i>	False	False	<p>//dataset/title/text ()</p> <p>Processor: SolrField Configuration: <i>eml.title</i></p>
<i>Index.project</i>	True	False	<p>//dataset/project/title/text ()</p> <p>Processor: SolrField Configuration: <i>eml.project</i></p>
<i>Index.southBoundCoord</i>	False	False	<p>//dataset/coverage/geographicCoverage/ ↔boundingCoordinates/ southBoundingCoordinate/text ()</p> <p>Processor: SolrField Configuration: <i>eml.southBoundCoord</i></p> <p>Converter: SolrLatitudeConverter</p>
<i>Index.northBoundCoord</i>	False	False	<p>//dataset/coverage/geographicCoverage/ ↔boundingCoordinates/ northBoundingCoordinate/text ()</p> <p>Processor: SolrField Configuration: <i>eml.northBoundCoord</i></p> <p>Converter: SolrLatitudeConverter</p>
<i>Index.westBoundCoord</i>	False	False	<p>//dataset/coverage/geographicCoverage/ ↔boundingCoordinates/ westBoundingCoordinate/text ()</p> <p>Processor: SolrField Configuration: <i>eml.westBoundCoord</i></p> <p>Converter: SolrLongitudeConverter</p>

Continued on next page



Table 1 – continued from previous page

Solr Field	Multi	Duplicate	Source
<i>Index.eastBoundCoord</i>	False	False	<pre>//dataset/coverage/geographicCoverage/ ↳boundingCoordinates/ eastBoundingCoordinate/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.eastBoundCoord</i> Converter: SolrLongitudeConverter</p>
<i>Index.site</i>	True	False	<pre>//dataset/coverage/geographicCoverage/ ↳geographicDescription/ text ()</pre> <p>Processor: SolrField Configuration: <i>eml.site</i></p>
<i>Index.beginDate</i>	False	False	<pre>//dataset/coverage/temporalCoverage/ ↳rangeOfDates/beginDate/ calendarDate/text ()   //dataset/coverage/ temporalCoverage/singleDateTime/calendarDate/ ↳text ()</pre> <p>Processor: SolrField Configuration: <i>eml.beginDate</i> Converter: SolrDateConverter</p>
<i>Index.endDate</i>	False	False	<pre>//dataset/coverage/temporalCoverage/ ↳rangeOfDates/endDate/ calendarDate/text ()   //dataset/coverage/ temporalCoverage/singleDateTime/calendarDate/ ↳text ()</pre> <p>Processor: SolrField Configuration: <i>eml.endDate</i> Converter: SolrDateConverter</p>

Continued on next page

Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.pubDate</i>	False	False	<pre>//dataset/pubDate/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.pubDate</i> Converter: SolrDateConverter</p>
<i>Index.author</i>	False		<pre>//dataset/creator/individualName -&gt;{   ↳{[givenName] [surName]   } }; givenName = givenName/text (); surName =   ↳surName/   text ()</pre> <p>Processor: CommonRootSolrField Configuration: <i>eml.author</i> Notes: This bean uses a template populated from additional sources. See configuration for more details.</p>
<i>Index.authorLastName</i>	True	False	<pre>//dataset/creator/individualName/surName/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.author_lname</i></p>
<i>Index.authorGivenName</i>	False	False	<pre>//dataset/creator[1]/individualName[1]/   ↳givenName/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.authorGivenName</i></p>
<i>Index.authorSurName</i>	False	False	<pre>//dataset/creator[1]/individualName[1]/surName/   ↳text ()</pre> <p>Processor: SolrField Configuration: <i>eml.authorSurName</i></p>
<i>Index.authorGivenNameSort</i>	False	False	<pre>//dataset/creator[1]/individualName[1]/   ↳givenName/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.authorGivenNameSort</i></p>

Continued on next page

Table 1 – continued from previous page

Solr Field	Multi	Duplicate	Source
<i>Index.authorSurNameSort</i>	False	False	<pre>//dataset/creator[1]/individualName[1]/surName/ ↪text ()</pre> <p>Processor: SolrField Configuration: <i>eml.authorSurNameSort</i></p>
<i>Index.investigator</i>	True	False	<pre>//dataset/creator/individualName/surName/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.investigator</i></p>
<i>Index.origin</i>	False		<pre>//dataset/creator -&gt;{ ↪{[individualName]  [organizationName] }}; organizationName = organizationName/text () individualName -&gt;{[givenName] [surName]}; givenName = givenName/text (); surName = surName/ text ()</pre> <p>Processor: CommonRootSolrField Configuration: <i>eml.origin</i> Notes: This bean uses a template populated from additional sources. See configuration for more details.</p>
<i>Index.contactOrganization</i>	True	True	<pre>//dataset/creator/organizationName/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.contactOrganization</i></p>
<i>Index.genus</i>	True	True	<pre>//taxonomicClassification/taxonRankValue[.. / ↪taxonRankName= "Genus" or ../taxonRankName="genus"]/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.genus</i></p>
<i>Index.species</i>	True	True	<pre>//taxonomicClassification/taxonRankValue[.. / ↪taxonRankName= "Species" or ../taxonRankName="species"]/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.species</i></p>

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Table 1 – continued from previous page

Solr Field	Multi	Duplicate	Source
<i>Index.kingdom</i>	True	True	<pre>//taxonomicClassification/taxonRankValue[../ ↳taxonRankName= "Kingdom" or ../taxonRankName="kingdom"]/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.kingdom</i></p>
<i>Index.order</i>	True	True	<pre>//taxonomicClassification/taxonRankValue[../ ↳taxonRankName= "Order" or ../taxonRankName="order"]/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.order</i></p>
<i>Index.phylum</i>	True	True	<pre>//taxonomicClassification/taxonRankValue[../ ↳taxonRankName= "Phylum" or ../taxonRankName="phylum"]/text ()   ↳// taxonomicClassification/taxonRankValue[../ taxonRankName="Division" or ../taxonRankName= "division"]/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.phylum</i></p>
<i>Index.family</i>	True	True	<pre>//taxonomicClassification/taxonRankValue[../ ↳taxonRankName= "Family" or ../taxonRankName="family"]/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.family</i></p>
<i>Index.class</i>	True	True	<pre>//taxonomicClassification/taxonRankValue[../ ↳taxonRankName= "Class" or ../taxonRankName="class"]/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.class</i></p>

Continued on next page

Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.scientificName</i>	False		<pre>//taxonomicClassification[../taxonRankName= ↪"Genus" or ../ taxonRankName="genus"] -&gt;{[genus] [species]}; genus = ../taxonRankValue/text(); species = taxonRankValue/text()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>eml.scientificName</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.</p>
<i>Index.attributeName</i>	True	False	<pre>//dataTable/attributeList/attribute/ ↪attributeName/text()</pre> <p>Processor: <a href="#">SolrField</a>  Configuration: <i>eml.attributeName</i></p>
<i>Index.attributeLabel</i>	True	False	<pre>//dataTable/attributeList/attribute/ ↪attributeLabel/text()</pre> <p>Processor: <a href="#">SolrField</a>  Configuration: <i>eml.attributeLabel</i></p>
<i>Index.attributeDescription</i>	True	False	<pre>//dataTable/attributeList/attribute/ ↪attributeDefinition/ text()</pre> <p>Processor: <a href="#">SolrField</a>  Configuration: <i>eml.attributeDescription</i></p>
<i>Index.attributeUnit</i>	True	False	<pre>//dataTable//standardUnit/text()   //dataTable// ↪customUnit/ text()</pre> <p>Processor: <a href="#">SolrField</a>  Configuration: <i>eml.attributeUnit</i></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.attribute</i>	False		<pre>//dataTable/attributeList/attribute -&gt;{   &lt;-&gt;{[attributeName] [     attributeLabel] [attributeDescription] [     attributeUnit]}}; attributeName = attributeName/ text(); attributeLabel = attributeLabel/text(); attributeDescription = attributeDefinition/   &lt;-&gt;text (); attributeUnit = ../standardUnit/text ()   ../ customUnit/text ()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>eml.attributeText</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.</p>
<i>Index.fileID</i>			<p>Processor: <a href="#">ResolveSolrField</a>  Configuration: <i>eml.fileID</i>  Notes: SolrField which configures the resolve url for the document being processed.  Converter:</p>
<i>Index.text</i>			<p>Processor: <a href="#">AggregateSolrField</a>  Configuration: <i>eml.fullText</i>  Converter:</p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_1</i>	False		<pre>//dataset/coverage/geographicCoverage/ ↳boundingCoordinates -&gt;{{ [northBoundingCoordinate] [ southBoundingCoordinate]↳ ↳[eastBoundingCoordinate] [ westBoundingCoordinate]}};↳ ↳northBoundingCoordinate = northBoundingCoordinate/text (); southBoundingCoordinate =↳ ↳southBoundingCoordinate/ text (); eastBoundingCoordinate = eastBoundingCoordinate/text (); westBoundingCoordinate = westBoundingCoordinate/ text ()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>eml.geohash1</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>
<i>Index.geohash_2</i>	False		<pre>//dataset/coverage/geographicCoverage/ ↳boundingCoordinates -&gt;{{ [northBoundingCoordinate] [ southBoundingCoordinate]↳ ↳[eastBoundingCoordinate] [ westBoundingCoordinate]}};↳ ↳northBoundingCoordinate = northBoundingCoordinate/text (); southBoundingCoordinate =↳ ↳southBoundingCoordinate/ text (); eastBoundingCoordinate = eastBoundingCoordinate/text (); westBoundingCoordinate = westBoundingCoordinate/ text ()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>eml.geohash2</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_3</i>	False		<pre>//dataset/coverage/geographicCoverage/ ↳boundingCoordinates -&gt;{{ [northBoundingCoordinate] [ southBoundingCoordinate]↳ ↳[eastBoundingCoordinate] [ westBoundingCoordinate]}};↳ ↳northBoundingCoordinate = northBoundingCoordinate/text (); southBoundingCoordinate =↳ ↳southBoundingCoordinate/ text (); eastBoundingCoordinate = eastBoundingCoordinate/text (); westBoundingCoordinate = westBoundingCoordinate/ text ()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>eml.geohash3</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>
<i>Index.geohash_4</i>	False		<pre>//dataset/coverage/geographicCoverage/ ↳boundingCoordinates -&gt;{{ [northBoundingCoordinate] [ southBoundingCoordinate]↳ ↳[eastBoundingCoordinate] [ westBoundingCoordinate]}};↳ ↳northBoundingCoordinate = northBoundingCoordinate/text (); southBoundingCoordinate =↳ ↳southBoundingCoordinate/ text (); eastBoundingCoordinate = eastBoundingCoordinate/text (); westBoundingCoordinate = westBoundingCoordinate/ text ()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>eml.geohash4</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_5</i>	False		<pre>//dataset/coverage/geographicCoverage/ ↳boundingCoordinates -&gt;{{ [northBoundingCoordinate] [ southBoundingCoordinate]↳ ↳[eastBoundingCoordinate] [ westBoundingCoordinate]}};↳ ↳northBoundingCoordinate = northBoundingCoordinate/text(); southBoundingCoordinate =↳ ↳southBoundingCoordinate/ text(); eastBoundingCoordinate = eastBoundingCoordinate/text(); westBoundingCoordinate = westBoundingCoordinate/ text()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>eml.geohash5</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>
<i>Index.geohash_6</i>	False		<pre>//dataset/coverage/geographicCoverage/ ↳boundingCoordinates -&gt;{{ [northBoundingCoordinate] [ southBoundingCoordinate]↳ ↳[eastBoundingCoordinate] [ westBoundingCoordinate]}};↳ ↳northBoundingCoordinate = northBoundingCoordinate/text(); southBoundingCoordinate =↳ ↳southBoundingCoordinate/ text(); eastBoundingCoordinate = eastBoundingCoordinate/text(); westBoundingCoordinate = westBoundingCoordinate/ text()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>eml.geohash6</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_7</i>	False		<pre>//dataset/coverage/geographicCoverage/ ↳boundingCoordinates -&gt;{{ [northBoundingCoordinate] [ southBoundingCoordinate]↳ ↳[eastBoundingCoordinate] [ westBoundingCoordinate]}};↳ ↳northBoundingCoordinate = northBoundingCoordinate/text (); southBoundingCoordinate =↳ ↳southBoundingCoordinate/ text (); eastBoundingCoordinate = eastBoundingCoordinate/text (); westBoundingCoordinate = westBoundingCoordinate/ text ()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>eml.geohash7</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>
<i>Index.geohash_8</i>	False		<pre>//dataset/coverage/geographicCoverage/ ↳boundingCoordinates -&gt;{{ [northBoundingCoordinate] [ southBoundingCoordinate]↳ ↳[eastBoundingCoordinate] [ westBoundingCoordinate]}};↳ ↳northBoundingCoordinate = northBoundingCoordinate/text (); southBoundingCoordinate =↳ ↳southBoundingCoordinate/ text (); eastBoundingCoordinate = eastBoundingCoordinate/text (); westBoundingCoordinate = westBoundingCoordinate/ text ()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>eml.geohash8</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_9</i>	False		<pre>//dataset/coverage/geographicCoverage/ ↪boundingCoordinates -&gt;{{ [northBoundingCoordinate] [ southBoundingCoordinate] ↪ ↪ [eastBoundingCoordinate] [ westBoundingCoordinate] }}; ↪ ↪northBoundingCoordinate = northBoundingCoordinate/text (); southBoundingCoordinate = ↪ ↪southBoundingCoordinate/ text (); eastBoundingCoordinate = eastBoundingCoordinate/text (); westBoundingCoordinate = westBoundingCoordinate/ text ()</pre> <p>Processor: <b>CommonRootSolrField</b>  Configuration: <i>eml.geohash9</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <b>GeohashConverter</b></p>
<i>Index.isService</i>	False	False	<pre>boolean(//software/implementation/distribution/ ↪online/url)</pre> <p>Processor: <b>SolrField</b>  Configuration: <i>eml.isService</i></p>
<i>Index.serviceTitle</i>	False	False	<pre>//software/title//text () [normalize-space ()]</pre> <p>Processor: <b>SolrField</b>  Configuration: <i>eml.serviceTitle</i></p>
<i>Index.serviceDescription</i>	False	False	<pre>//software/abstract//text () [normalize-space ()]</pre> <p>Processor: <b>SolrField</b>  Configuration: <i>eml.serviceDescription</i></p>
<i>Index.serviceEndpoint</i>	True	False	<pre>//software/implementation/distribution/online/ ↪url/text ()</pre> <p>Processor: <b>SolrField</b>  Configuration: <i>eml.serviceEndpoint</i></p>

## 11.3 Bean Configurations

### 11.3.1 eml.abstract

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.abstract" class="org.dataone.cn.indexer.parser.MergeSolrField">
  <constructor-arg name="name" value="abstract"/>
  <constructor-arg name="xpath" value="//dataset/abstract/descendant::text()"/>
  <constructor-arg name="delimiter" value=""/>
  <property name="multivalue" value="false"/>
  <property name="dedupe" value="false"/>
</bean>
```

### 11.3.2 eml.keywords

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.keywords" class="org.dataone.cn.indexer.parser.SolrField">
  <constructor-arg name="name" value="keywords"/>
  <constructor-arg name="xpath" value="//dataset/keywordSet/keyword/text()
↳"/>
  <property name="multivalue" value="true"/>
  <property name="dedupe" value="true"/>
</bean>
```

### 11.3.3 eml.title

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.title" class="org.dataone.cn.indexer.parser.SolrField">
  <constructor-arg name="name" value="title"/>
  <constructor-arg name="xpath" value="//dataset/title/text()"/>
  <property name="multivalue" value="false"/>
</bean>
```

### 11.3.4 eml.project

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.project" class="org.dataone.cn.indexer.parser.SolrField">
  <constructor-arg name="name" value="project"/>
  <constructor-arg name="xpath" value="//dataset/project/title/text()"/>
  <property name="multivalue" value="true"/>
</bean>
```

### 11.3.5 eml.southBoundCoord

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.southBoundCoord" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="southBoundCoord"/>
    <constructor-arg name="xpath" value="//dataset/coverage/
↳geographicCoverage/boundingCoordinates/southBoundingCoordinate/text()" />
    <property name="multivalue" value="false"/>
    <property name="converter" ref="solrLatitudeConverter"/>
</bean>
```

### 11.3.6 eml.northBoundCoord

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.northBoundCoord" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="northBoundCoord"/>
    <constructor-arg name="xpath" value="//dataset/coverage/
↳geographicCoverage/boundingCoordinates/northBoundingCoordinate/text()" />
    <property name="multivalue" value="false"/>
    <property name="converter" ref="solrLatitudeConverter"/>
</bean>
```

### 11.3.7 eml.westBoundCoord

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.westBoundCoord" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="westBoundCoord"/>
    <constructor-arg name="xpath" value="//dataset/coverage/
↳geographicCoverage/boundingCoordinates/westBoundingCoordinate/text()" />
    <property name="multivalue" value="false"/>
    <property name="converter" ref="solrLongitudeConverter"/>
</bean>
```

### 11.3.8 eml.eastBoundCoord

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.eastBoundCoord" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="eastBoundCoord"/>
    <constructor-arg name="xpath" value="//dataset/coverage/
↳geographicCoverage/boundingCoordinates/eastBoundingCoordinate/text()" />
    <property name="multivalue" value="false"/>
    <property name="converter" ref="solrLongitudeConverter"/>
</bean>
```

### 11.3.9 eml.site

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.site" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="site"/>
    <constructor-arg name="xpath" value="//dataset/coverage/
↳geographicCoverage/geographicDescription/text ()"/>
    <property name="multivalue" value="true"/>
</bean>
```

### 11.3.10 eml.beginDate

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.beginDate" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="beginDate"/>
    <constructor-arg name="xpath" value="//dataset/coverage/temporalCoverage/
↳rangeOfDates/beginDate/calendarDate/text () | //dataset/coverage/temporalCoverage/
↳singleDateTime/calendarDate/text ()"/>
    <property name="multivalue" value="false"/>
    <property name="converter" ref="dateConverter"/>
</bean>
```

### 11.3.11 eml.endDate

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.endDate" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="endDate"/>
    <constructor-arg name="xpath" value="//dataset/coverage/temporalCoverage/
↳rangeOfDates/endDate/calendarDate/text () | //dataset/coverage/temporalCoverage/
↳singleDateTime/calendarDate/text ()"/>
    <property name="multivalue" value="false"/>
    <property name="converter" ref="dateConverter"/>
</bean>
```

### 11.3.12 eml.pubDate

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.pubDate" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="pubDate"/>
    <constructor-arg name="xpath" value="//dataset/pubDate/text ()"/>
    <property name="multivalue" value="false"/>
    <property name="converter" ref="dateConverter"/>
</bean>
```

### 11.3.13 eml.author

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.author" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="false" p:root-ref="eml.authorNameRoot">
    <constructor-arg name="name" value="author"/>
</bean>
```

### 11.3.14 eml.author\_lname

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.author_lname" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="authorLastName"/>
    <constructor-arg name="xpath" value="//dataset/creator/individualName/
↳surName/text ()"/>
    <property name="multivalue" value="true"/>
</bean>
```

### 11.3.15 eml.authorGivenName

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.authorGivenName" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="authorGivenName"/>
    <constructor-arg name="xpath" value="//dataset/creator[1]/
↳individualName[1]/givenName/text ()"/>
</bean>
```

### 11.3.16 eml.authorSurName

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.authorSurName" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="authorSurName"/>
    <constructor-arg name="xpath" value="//dataset/creator[1]/
↳individualName[1]/surName/text ()"/>
</bean>
```

### 11.3.17 eml.authorGivenNameSort

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.authorGivenNameSort" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="authorGivenNameSort"/>
    <constructor-arg name="xpath" value="//dataset/creator[1]/
↳individualName[1]/givenName/text ()"/>
</bean>
```

### 11.3.18 eml.authorSurNameSort

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.authorSurNameSort" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="authorSurNameSort"/>
    <constructor-arg name="xpath" value="//dataset/creator[1]/
↳individualName[1]/surName/text()" />
</bean>
```

### 11.3.19 eml.investigator

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.investigator" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="investigator"/>
    <constructor-arg name="xpath" value="//dataset/creator/individualName/
↳surName/text()" />
    <property name="multivalue" value="true"/>
</bean>
```

### 11.3.20 eml.origin

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.origin" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="true" p:root-ref="eml.originRoot">
    <constructor-arg name="name" value="origin"/>
</bean>
```

### 11.3.21 eml.contactOrganization

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.contactOrganization" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="contactOrganization"/>
    <constructor-arg name="xpath" value="//dataset/creator/organizationName/
↳text()" />
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>
```

### 11.3.22 eml.genus

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.genus" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="genus"/>
    <constructor-arg name="xpath" value="//taxonomicClassification/
↳taxonRankValue[../taxonRankName="Genus" or ../taxonRankName="genus&
↳quot;]/text()" />
</bean>
```

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```

    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>

```

### 11.3.23 eml.species

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.species" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="species"/>
    <constructor-arg name="xpath" value="//taxonomicClassification/
↳taxonRankValue[../taxonRankName=&quot;Species&quot; or ../taxonRankName=&quot;
↳species&quot;]/text()"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>

```

### 11.3.24 eml.kingdom

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.kingdom" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="kingdom"/>
    <constructor-arg name="xpath" value="//taxonomicClassification/
↳taxonRankValue[../taxonRankName=&quot;Kingdom&quot; or ../taxonRankName=&quot;
↳kingdom&quot;]/text()"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>

```

### 11.3.25 eml.order

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.order" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="order"/>
    <constructor-arg name="xpath" value="//taxonomicClassification/
↳taxonRankValue[../taxonRankName=&quot;Order&quot; or ../taxonRankName=&quot;order&
↳quot;]/text()"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>

```

### 11.3.26 eml.phylum

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.phylum" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="phylum"/>

```

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```

    <constructor-arg name="xpath" value="//taxonomicClassification/
↳ taxonRankValue[../taxonRankName=&quot;Phylum&quot; or ../taxonRankName=&quot;phylum&
↳ quot;]/text() | //taxonomicClassification/taxonRankValue[../taxonRankName=&quot;
↳ Division&quot; or ../taxonRankName=&quot;division&quot;]/text() "/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>

```

### 11.3.27 eml.family

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳ springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳ id="eml.family" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="family"/>
    <constructor-arg name="xpath" value="//taxonomicClassification/
↳ taxonRankValue[../taxonRankName=&quot;Family&quot; or ../taxonRankName=&quot;family&
↳ quot;]/text() "/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>

```

### 11.3.28 eml.class

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳ springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳ id="eml.class" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="class"/>
    <constructor-arg name="xpath" value="//taxonomicClassification/
↳ taxonRankValue[../taxonRankName=&quot;Class&quot; or ../taxonRankName=&quot;class&
↳ quot;]/text() "/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>

```

### 11.3.29 eml.scientificName

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳ springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳ id="eml.scientificName" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳ p:multivalue="true" p:root-ref="eml.scientificNameRoot">
    <constructor-arg name="name" value="scientificName"/>
</bean>

```

### 11.3.30 eml.attributeName

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳ springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳ id="eml.attributeName" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="attributeName"/>

```

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```

        <constructor-arg name="xpath" value="//dataTable/attributeList/attribute/
↪attributeName/text()" />
        <property name="multivalue" value="true" />
        <property name="dedupe" value="false" />
    </bean>

```

### 11.3.31 eml.attributeLabel

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↪springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↪id="eml.attributeLabel" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="attributeLabel" />
    <constructor-arg name="xpath" value="//dataTable/attributeList/attribute/
↪attributeLabel/text()" />
    <property name="multivalue" value="true" />
    <property name="dedupe" value="false" />
</bean>

```

### 11.3.32 eml.attributeDescription

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↪springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↪id="eml.attributeDescription" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="attributeDescription" />
    <constructor-arg name="xpath" value="//dataTable/attributeList/attribute/
↪attributeDefinition/text()" />
    <property name="multivalue" value="true" />
    <property name="dedupe" value="false" />
</bean>

```

### 11.3.33 eml.attributeUnit

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↪springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↪id="eml.attributeUnit" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="attributeUnit" />
    <constructor-arg name="xpath" value="//dataTable//standardUnit/text() | /
↪/dataTable//customUnit/text()" />
    <property name="multivalue" value="true" />
    <property name="dedupe" value="false" />
</bean>

```

### 11.3.34 eml.attributeText

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↪springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↪id="eml.attributeText" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↪p:multivalue="true" p:root-ref="eml.attributeTextRoot">
    <constructor-arg name="name" value="attribute" />

```

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```
</bean>
```

### 11.3.35 eml.fileID

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.fileID" class="org.dataone.cn.indexer.parser.ResolveSolrField">
    <constructor-arg name="name" value="fileID"/>
</bean>
```

### 11.3.36 eml.fullText

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.fullText" class="org.dataone.cn.indexer.parser.AggregateSolrField">
    <property name="name" value="text"/>
    <property name="solrFields">
        <list>
            <ref bean="eml.text"/>
            <ref bean="eml.attributeName.noDupe"/>
            <ref bean="eml.attributeLabel.noDupe"/>
            <ref bean="eml.attributeDescription.noDupe"/>
            <ref bean="eml.attributeUnit.noDupe"/>
        </list>
    </property>
</bean>
```

### 11.3.37 eml.geohash1

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.geohash1" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="true" p:root-ref="eml.geohashRoot">
    <constructor-arg name="name" value="geohash_1"/>
    <property name="converter" ref="geohashConverter_1"/>
</bean>
```

### 11.3.38 eml.geohash2

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.geohash2" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="true" p:root-ref="eml.geohashRoot">
    <constructor-arg name="name" value="geohash_2"/>
    <property name="converter" ref="geohashConverter_2"/>
</bean>
```

### 11.3.39 eml.geohash3

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.geohash3" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="true" p:root-ref="eml.geohashRoot">
    <constructor-arg name="name" value="geohash_3"/>
    <property name="converter" ref="geohashConverter_3"/>
</bean>
```

### 11.3.40 eml.geohash4

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.geohash4" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="true" p:root-ref="eml.geohashRoot">
    <constructor-arg name="name" value="geohash_4"/>
    <property name="converter" ref="geohashConverter_4"/>
</bean>
```

### 11.3.41 eml.geohash5

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.geohash5" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="true" p:root-ref="eml.geohashRoot">
    <constructor-arg name="name" value="geohash_5"/>
    <property name="converter" ref="geohashConverter_5"/>
</bean>
```

### 11.3.42 eml.geohash6

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.geohash6" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="true" p:root-ref="eml.geohashRoot">
    <constructor-arg name="name" value="geohash_6"/>
    <property name="converter" ref="geohashConverter_6"/>
</bean>
```

### 11.3.43 eml.geohash7

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.geohash7" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="true" p:root-ref="eml.geohashRoot">
    <constructor-arg name="name" value="geohash_7"/>
    <property name="converter" ref="geohashConverter_7"/>
</bean>
```

### 11.3.44 eml.geohash8

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.geohash8" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="true" p:root-ref="eml.geohashRoot">
    <constructor-arg name="name" value="geohash_8"/>
    <property name="converter" ref="geohashConverter_8"/>
</bean>
```

### 11.3.45 eml.geohash9

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.geohash9" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="true" p:root-ref="eml.geohashRoot">
    <constructor-arg name="name" value="geohash_9"/>
    <property name="converter" ref="geohashConverter_9"/>
</bean>
```

### 11.3.46 eml.isService

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.isService" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="isService"/>
    <constructor-arg name="xpath" value="boolean(//software/implementation/
↳distribution/online/url)"/>
</bean>
```

### 11.3.47 eml.serviceTitle

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.serviceTitle" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="serviceTitle"/>
    <constructor-arg name="xpath" value="//software/title/text() [normalize-
↳space() ]"/>
    <property name="combineNodes" value="true"/>
    <property name="combineDelimiter" value=":"/>
</bean>
```

### 11.3.48 eml.serviceDescription

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.serviceDescription" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="serviceDescription"/>
    <constructor-arg name="xpath" value="//software/abstract//
↳text() [normalize-space() ]"/>
```

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```
<property name="combineNodes" value="true"/>
<property name="combineDelimiter" value=":"/>
</bean>
```

### 11.3.49 eml.serviceEndpoint

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.serviceEndpoint" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="serviceEndpoint"/>
    <constructor-arg name="xpath" value="//software/implementation/
↳distribution/online/url/text()"/>
    <property name="multivalue" value="true"/>
</bean>
```





---

Ecological Markup Language, v2.0.1

---

Describes parser configuration for: eml201Subprocessor

## 12.1 Format IDs Processed

This parser processes the following DataONE format IDs:

- Ecological Metadata Language, version 2.0.1  
formatId: eml://ecoinformatics.org/eml-2.0.1

A full list of DataONE format IDs can be found at <https://cn.dataone.org/cn/v2/formats/>

## 12.2 Fields

The following fields in the solr index are populated from values retrieved from this type of metadata document. Note that these are in addition to the information extracted from *System Metadata Parser*.

Solr Field	Multi	Dedupe	Source
<i>Index.abstract</i>	False	False	<p>//dataset/abstract/descendant::text ()</p> <p>Processor: MergeSolrField Configuration: <i>eml.abstract</i></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.keywords</i>	True	True	<p>//dataset/keywordSet/keyword/text ()</p> <p>Processor: SolrField Configuration: <i>eml.keywords</i></p>
<i>Index.title</i>	False	False	<p>//dataset/title/text ()</p> <p>Processor: SolrField Configuration: <i>eml.title</i></p>
<i>Index.project</i>	True	False	<p>//dataset/project/title/text ()</p> <p>Processor: SolrField Configuration: <i>eml.project</i></p>
<i>Index.southBoundCoord</i>	False	False	<p>//dataset/coverage/geographicCoverage/ ↔boundingCoordinates/ southBoundingCoordinate/text ()</p> <p>Processor: SolrField Configuration: <i>eml.southBoundCoord</i></p> <p>Converter: SolrLatitudeConverter</p>
<i>Index.northBoundCoord</i>	False	False	<p>//dataset/coverage/geographicCoverage/ ↔boundingCoordinates/ northBoundingCoordinate/text ()</p> <p>Processor: SolrField Configuration: <i>eml.northBoundCoord</i></p> <p>Converter: SolrLatitudeConverter</p>
<i>Index.westBoundCoord</i>	False	False	<p>//dataset/coverage/geographicCoverage/ ↔boundingCoordinates/ westBoundingCoordinate/text ()</p> <p>Processor: SolrField Configuration: <i>eml.westBoundCoord</i></p> <p>Converter: SolrLongitudeConverter</p>

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Table 1 – continued from previous page

Solr Field	Multi	Duplicate	Source
<i>Index.eastBoundCoord</i>	False	False	<pre>//dataset/coverage/geographicCoverage/ ↳boundingCoordinates/ eastBoundingCoordinate/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.eastBoundCoord</i> Converter: SolrLongitudeConverter</p>
<i>Index.site</i>	True	False	<pre>//dataset/coverage/geographicCoverage/ ↳geographicDescription/ text ()</pre> <p>Processor: SolrField Configuration: <i>eml.site</i></p>
<i>Index.beginDate</i>	False	False	<pre>//dataset/coverage/temporalCoverage/ ↳rangeOfDates/beginDate/ calendarDate/text ()   //dataset/coverage/ temporalCoverage/singleDateTime/calendarDate/ ↳text ()</pre> <p>Processor: SolrField Configuration: <i>eml.beginDate</i> Converter: SolrDateConverter</p>
<i>Index.endDate</i>	False	False	<pre>//dataset/coverage/temporalCoverage/ ↳rangeOfDates/endDate/ calendarDate/text ()   //dataset/coverage/ temporalCoverage/singleDateTime/calendarDate/ ↳text ()</pre> <p>Processor: SolrField Configuration: <i>eml.endDate</i> Converter: SolrDateConverter</p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.pubDate</i>	False	False	<pre>//dataset/pubDate/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.pubDate</i></p> <p>Converter: SolrDateConverter</p>
<i>Index.author</i>	False		<pre>//dataset/creator/individualName -&gt;{   ↳{[givenName] [surName]   }}; givenName = givenName/text (); surName =   ↳surName/   text ()</pre> <p>Processor: CommonRootSolrField Configuration: <i>eml.author</i></p> <p>Notes: This bean uses a template populated from additional sources. See configuration for more details.</p>
<i>Index.authorGivenName</i>	False	False	<pre>//dataset/creator[1]/individualName[1]/   ↳givenName/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.authorGivenName</i></p>
<i>Index.authorSurName</i>	False	False	<pre>//dataset/creator[1]/individualName[1]/surName/   ↳text ()</pre> <p>Processor: SolrField Configuration: <i>eml.authorSurName</i></p>
<i>Index.authorGivenNameSort</i>	False	False	<pre>//dataset/creator[1]/individualName[1]/   ↳givenName/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.authorGivenNameSort</i></p>
<i>Index.authorSurNameSort</i>	False	False	<pre>//dataset/creator[1]/individualName[1]/surName/   ↳text ()</pre> <p>Processor: SolrField Configuration: <i>eml.authorSurNameSort</i></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.authorLastName</i>	True	False	<pre>//dataset/creator/individualName/surName/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.author_lname</i></p>
<i>Index.investigator</i>	True	False	<pre>//dataset/creator/individualName/surName/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.investigator</i></p>
<i>Index.origin</i>	False		<pre>//dataset/creator -&gt;{   &lt;-{[individualName]  [organizationName] }; organizationName = organizationName/text () individualName -&gt;{[givenName] [surName]}; givenName = givenName/text (); surName = surName/ text ()</pre> <p>Processor: CommonRootSolrField Configuration: <i>eml.origin</i> Notes: This bean uses a template populated from additional sources. See configuration for more details.</p>
<i>Index.contactOrganization</i>	True	True	<pre>//dataset/creator/organizationName/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.contactOrganization</i></p>
<i>Index.genus</i>	True	True	<pre>//taxonomicClassification/taxonRankValue[.. /   &lt;-taxonRankName=   "Genus" or ../taxonRankName="genus"]/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.genus</i></p>
<i>Index.species</i>	True	True	<pre>//taxonomicClassification/taxonRankValue[.. /   &lt;-taxonRankName=   "Species" or ../taxonRankName="species"]/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.species</i></p>

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Table 1 – continued from previous page

Solr Field	Multi	Duplicate	Source
<i>Index.kingdom</i>	True	True	<pre>//taxonomicClassification/taxonRankValue[../ ↳taxonRankName= "Kingdom" or ../taxonRankName="kingdom"]/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.kingdom</i></p>
<i>Index.order</i>	True	True	<pre>//taxonomicClassification/taxonRankValue[../ ↳taxonRankName= "Order" or ../taxonRankName="order"]/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.order</i></p>
<i>Index.phylum</i>	True	True	<pre>//taxonomicClassification/taxonRankValue[../ ↳taxonRankName= "Phylum" or ../taxonRankName="phylum"]/text ()   ↳// taxonomicClassification/taxonRankValue[../ taxonRankName="Division" or ../taxonRankName= "division"]/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.phylum</i></p>
<i>Index.family</i>	True	True	<pre>//taxonomicClassification/taxonRankValue[../ ↳taxonRankName= "Family" or ../taxonRankName="family"]/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.family</i></p>
<i>Index.class</i>	True	True	<pre>//taxonomicClassification/taxonRankValue[../ ↳taxonRankName= "Class" or ../taxonRankName="class"]/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.class</i></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.scientificName</i>	False		<pre>//taxonomicClassification[../taxonRankName= ↪"Genus" or ../ taxonRankName="genus"] -&gt;{[genus] [species]}; genus = ../taxonRankValue/text(); species = taxonRankValue/text()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>eml.scientificName</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.</p>
<i>Index.attributeName</i>	True	False	<pre>//dataTable/attributeList/attribute/ ↪attributeName/text()</pre> <p>Processor: <a href="#">SolrField</a>  Configuration: <i>eml.attributeName</i></p>
<i>Index.attributeLabel</i>	True	False	<pre>//dataTable/attributeList/attribute/ ↪attributeLabel/text()</pre> <p>Processor: <a href="#">SolrField</a>  Configuration: <i>eml.attributeLabel</i></p>
<i>Index.attributeDescription</i>	True	False	<pre>//dataTable/attributeList/attribute/ ↪attributeDefinition/ text()</pre> <p>Processor: <a href="#">SolrField</a>  Configuration: <i>eml.attributeDescription</i></p>
<i>Index.attributeUnit</i>	True	False	<pre>//dataTable//standardUnit/text()   //dataTable// ↪customUnit/ text()</pre> <p>Processor: <a href="#">SolrField</a>  Configuration: <i>eml.attributeUnit</i></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.attribute</i>	False		<pre>//dataTable/attributeList/attribute -&gt;{   &lt;-&gt;{[attributeName] [     attributeLabel] [attributeDescription] [     attributeUnit]}}; attributeName = attributeName/ text(); attributeLabel = attributeLabel/text(); attributeDescription = attributeDefinition/   &lt;-&gt;text (); attributeUnit = ../standardUnit/text ()   ../ customUnit/text ()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>eml.attributeText</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.</p>
<i>Index.fileID</i>			<p>Processor: <a href="#">ResolveSolrField</a>  Configuration: <i>eml.fileID</i>  Notes: SolrField which configures the resolve url for the document being processed.  Converter:</p>
<i>Index.text</i>			<p>Processor: <a href="#">AggregateSolrField</a>  Configuration: <i>eml.fullText</i>  Converter:</p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_1</i>	False		<pre>//dataset/coverage/geographicCoverage/ ↳boundingCoordinates -&gt;{{ [northBoundingCoordinate] [ southBoundingCoordinate]↳ ↳[eastBoundingCoordinate] [ westBoundingCoordinate]}};↳ ↳northBoundingCoordinate = northBoundingCoordinate/text (); southBoundingCoordinate =↳ ↳southBoundingCoordinate/ text (); eastBoundingCoordinate = eastBoundingCoordinate/text (); westBoundingCoordinate = westBoundingCoordinate/ text ()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>eml.geohash1</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>
<i>Index.geohash_2</i>	False		<pre>//dataset/coverage/geographicCoverage/ ↳boundingCoordinates -&gt;{{ [northBoundingCoordinate] [ southBoundingCoordinate]↳ ↳[eastBoundingCoordinate] [ westBoundingCoordinate]}};↳ ↳northBoundingCoordinate = northBoundingCoordinate/text (); southBoundingCoordinate =↳ ↳southBoundingCoordinate/ text (); eastBoundingCoordinate = eastBoundingCoordinate/text (); westBoundingCoordinate = westBoundingCoordinate/ text ()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>eml.geohash2</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_3</i>	False		<pre>//dataset/coverage/geographicCoverage/ ↪boundingCoordinates -&gt;{{ [northBoundingCoordinate] [ southBoundingCoordinate]↵ ↪[eastBoundingCoordinate] [ westBoundingCoordinate]}};↵ ↪northBoundingCoordinate = northBoundingCoordinate/text(); southBoundingCoordinate =↵ ↪southBoundingCoordinate/ text(); eastBoundingCoordinate = eastBoundingCoordinate/text(); westBoundingCoordinate = westBoundingCoordinate/ text()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>eml.geohash3</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>
<i>Index.geohash_4</i>	False		<pre>//dataset/coverage/geographicCoverage/ ↪boundingCoordinates -&gt;{{ [northBoundingCoordinate] [ southBoundingCoordinate]↵ ↪[eastBoundingCoordinate] [ westBoundingCoordinate]}};↵ ↪northBoundingCoordinate = northBoundingCoordinate/text(); southBoundingCoordinate =↵ ↪southBoundingCoordinate/ text(); eastBoundingCoordinate = eastBoundingCoordinate/text(); westBoundingCoordinate = westBoundingCoordinate/ text()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>eml.geohash4</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_5</i>	False		<pre>//dataset/coverage/geographicCoverage/ ↪boundingCoordinates -&gt;{{ [northBoundingCoordinate] [ southBoundingCoordinate]↵ ↪[eastBoundingCoordinate] [ westBoundingCoordinate]}};↵ ↪northBoundingCoordinate = northBoundingCoordinate/text(); southBoundingCoordinate =↵ ↪southBoundingCoordinate/ text(); eastBoundingCoordinate = eastBoundingCoordinate/text(); westBoundingCoordinate = westBoundingCoordinate/ text()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>eml.geohash5</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>
<i>Index.geohash_6</i>	False		<pre>//dataset/coverage/geographicCoverage/ ↪boundingCoordinates -&gt;{{ [northBoundingCoordinate] [ southBoundingCoordinate]↵ ↪[eastBoundingCoordinate] [ westBoundingCoordinate]}};↵ ↪northBoundingCoordinate = northBoundingCoordinate/text(); southBoundingCoordinate =↵ ↪southBoundingCoordinate/ text(); eastBoundingCoordinate = eastBoundingCoordinate/text(); westBoundingCoordinate = westBoundingCoordinate/ text()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>eml.geohash6</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_7</i>	False		<pre>//dataset/coverage/geographicCoverage/ ↳boundingCoordinates -&gt;{{ [northBoundingCoordinate] [ southBoundingCoordinate]↳ ↳[eastBoundingCoordinate] [ westBoundingCoordinate]}};↳ ↳northBoundingCoordinate = northBoundingCoordinate/text (); southBoundingCoordinate =↳ ↳southBoundingCoordinate/ text (); eastBoundingCoordinate = eastBoundingCoordinate/text (); westBoundingCoordinate = westBoundingCoordinate/ text ()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>eml.geohash7</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>
<i>Index.geohash_8</i>	False		<pre>//dataset/coverage/geographicCoverage/ ↳boundingCoordinates -&gt;{{ [northBoundingCoordinate] [ southBoundingCoordinate]↳ ↳[eastBoundingCoordinate] [ westBoundingCoordinate]}};↳ ↳northBoundingCoordinate = northBoundingCoordinate/text (); southBoundingCoordinate =↳ ↳southBoundingCoordinate/ text (); eastBoundingCoordinate = eastBoundingCoordinate/text (); westBoundingCoordinate = westBoundingCoordinate/ text ()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>eml.geohash8</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_9</i>	False		<pre>//dataset/coverage/geographicCoverage/ ↪boundingCoordinates -&gt;{{ [northBoundingCoordinate] [ southBoundingCoordinate] ↪ ↪ [eastBoundingCoordinate] [ westBoundingCoordinate] }}; ↪ ↪northBoundingCoordinate = northBoundingCoordinate/text (); southBoundingCoordinate = ↪ ↪southBoundingCoordinate/ text (); eastBoundingCoordinate = eastBoundingCoordinate/text (); westBoundingCoordinate = westBoundingCoordinate/ text ()</pre> <p>Processor: <code>CommonRootSolrField</code>  Configuration: <code>eml.geohash9</code>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <code>GeohashConverter</code></p>
<i>Index.isService</i>	False	False	<pre>boolean(//software/implementation/distribution/ ↪online/url)</pre> <p>Processor: <code>SolrField</code>  Configuration: <code>eml.isService</code></p>
<i>Index.serviceTitle</i>	False	False	<pre>//software/title//text () [normalize-space ()]</pre> <p>Processor: <code>SolrField</code>  Configuration: <code>eml.serviceTitle</code></p>
<i>Index.serviceDescription</i>	False	False	<pre>//software/abstract//text () [normalize-space ()]</pre> <p>Processor: <code>SolrField</code>  Configuration: <code>eml.serviceDescription</code></p>
<i>Index.serviceEndpoint</i>	True	False	<pre>//software/implementation/distribution/online/ ↪url/text ()</pre> <p>Processor: <code>SolrField</code>  Configuration: <code>eml.serviceEndpoint</code></p>

## 12.3 Bean Configurations

### 12.3.1 eml.abstract

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.abstract" class="org.dataone.cn.indexer.parser.MergeSolrField">
  <constructor-arg name="name" value="abstract"/>
  <constructor-arg name="xpath" value="//dataset/abstract/descendant::text()"/>
  <constructor-arg name="delimiter" value=""/>
  <property name="multivalue" value="false"/>
  <property name="dedupe" value="false"/>
</bean>
```

### 12.3.2 eml.keywords

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.keywords" class="org.dataone.cn.indexer.parser.SolrField">
  <constructor-arg name="name" value="keywords"/>
  <constructor-arg name="xpath" value="//dataset/keywordSet/keyword/text()
↳"/>
  <property name="multivalue" value="true"/>
  <property name="dedupe" value="true"/>
</bean>
```

### 12.3.3 eml.title

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.title" class="org.dataone.cn.indexer.parser.SolrField">
  <constructor-arg name="name" value="title"/>
  <constructor-arg name="xpath" value="//dataset/title/text()"/>
  <property name="multivalue" value="false"/>
</bean>
```

### 12.3.4 eml.project

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.project" class="org.dataone.cn.indexer.parser.SolrField">
  <constructor-arg name="name" value="project"/>
  <constructor-arg name="xpath" value="//dataset/project/title/text()"/>
  <property name="multivalue" value="true"/>
</bean>
```

### 12.3.5 eml.southBoundCoord

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.southBoundCoord" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="southBoundCoord"/>
    <constructor-arg name="xpath" value="//dataset/coverage/
↳geographicCoverage/boundingCoordinates/southBoundingCoordinate/text()" />
    <property name="multivalue" value="false"/>
    <property name="converter" ref="solrLatitudeConverter"/>
</bean>
```

### 12.3.6 eml.northBoundCoord

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.northBoundCoord" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="northBoundCoord"/>
    <constructor-arg name="xpath" value="//dataset/coverage/
↳geographicCoverage/boundingCoordinates/northBoundingCoordinate/text()" />
    <property name="multivalue" value="false"/>
    <property name="converter" ref="solrLatitudeConverter"/>
</bean>
```

### 12.3.7 eml.westBoundCoord

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.westBoundCoord" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="westBoundCoord"/>
    <constructor-arg name="xpath" value="//dataset/coverage/
↳geographicCoverage/boundingCoordinates/westBoundingCoordinate/text()" />
    <property name="multivalue" value="false"/>
    <property name="converter" ref="solrLongitudeConverter"/>
</bean>
```

### 12.3.8 eml.eastBoundCoord

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.eastBoundCoord" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="eastBoundCoord"/>
    <constructor-arg name="xpath" value="//dataset/coverage/
↳geographicCoverage/boundingCoordinates/eastBoundingCoordinate/text()" />
    <property name="multivalue" value="false"/>
    <property name="converter" ref="solrLongitudeConverter"/>
</bean>
```

### 12.3.9 eml.site

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.site" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="site"/>
    <constructor-arg name="xpath" value="//dataset/coverage/
↳geographicCoverage/geographicDescription/text () "/>
    <property name="multivalue" value="true"/>
</bean>
```

### 12.3.10 eml.beginDate

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.beginDate" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="beginDate"/>
    <constructor-arg name="xpath" value="//dataset/coverage/temporalCoverage/
↳rangeOfDates/beginDate/calendarDate/text () | //dataset/coverage/temporalCoverage/
↳singleDateTime/calendarDate/text () "/>
    <property name="multivalue" value="false"/>
    <property name="converter" ref="dateConverter"/>
</bean>
```

### 12.3.11 eml.endDate

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.endDate" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="endDate"/>
    <constructor-arg name="xpath" value="//dataset/coverage/temporalCoverage/
↳rangeOfDates/endDate/calendarDate/text () | //dataset/coverage/temporalCoverage/
↳singleDateTime/calendarDate/text () "/>
    <property name="multivalue" value="false"/>
    <property name="converter" ref="dateConverter"/>
</bean>
```

### 12.3.12 eml.pubDate

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.pubDate" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="pubDate"/>
    <constructor-arg name="xpath" value="//dataset/pubDate/text () "/>
    <property name="multivalue" value="false"/>
    <property name="converter" ref="dateConverter"/>
</bean>
```



### 12.3.13 eml.author

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.author" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="false" p:root-ref="eml.authorNameRoot">
    <constructor-arg name="name" value="author"/>
</bean>
```

### 12.3.14 eml.authorGivenName

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.authorGivenName" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="authorGivenName"/>
    <constructor-arg name="xpath" value="//dataset/creator[1]/
↳individualName[1]/givenName/text ()"/>
</bean>
```

### 12.3.15 eml.authorSurName

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.authorSurName" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="authorSurName"/>
    <constructor-arg name="xpath" value="//dataset/creator[1]/
↳individualName[1]/surName/text ()"/>
</bean>
```

### 12.3.16 eml.authorGivenNameSort

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.authorGivenNameSort" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="authorGivenNameSort"/>
    <constructor-arg name="xpath" value="//dataset/creator[1]/
↳individualName[1]/givenName/text ()"/>
</bean>
```

### 12.3.17 eml.authorSurNameSort

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.authorSurNameSort" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="authorSurNameSort"/>
    <constructor-arg name="xpath" value="//dataset/creator[1]/
↳individualName[1]/surName/text ()"/>
</bean>
```

### 12.3.18 eml.author\_lname

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.author_lname" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="authorLastName"/>
    <constructor-arg name="xpath" value="//dataset/creator/individualName/
↳surName/text()" />
    <property name="multivalue" value="true"/>
</bean>
```

### 12.3.19 eml.investigator

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.investigator" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="investigator"/>
    <constructor-arg name="xpath" value="//dataset/creator/individualName/
↳surName/text()" />
    <property name="multivalue" value="true"/>
</bean>
```

### 12.3.20 eml.origin

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.origin" class="org.dataone.cn.indexer.parser.CommonRootSolrField">
↳p:multivalue="true" p:root-ref="eml.originRoot">
    <constructor-arg name="name" value="origin"/>
</bean>
```

### 12.3.21 eml.contactOrganization

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.contactOrganization" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="contactOrganization"/>
    <constructor-arg name="xpath" value="//dataset/creator/organizationName/
↳text()" />
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>
```

### 12.3.22 eml.genus

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.genus" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="genus"/>
```

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```

        <constructor-arg name="xpath" value="//taxonomicClassification/
↳ taxonRankValue[../taxonRankName=&quot;Genus&quot; or ../taxonRankName=&quot;genus&
↳ quot;]/text()" />
        <property name="multivalue" value="true" />
        <property name="dedupe" value="true" />
    </bean>

```

### 12.3.23 eml.species

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳ springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳ id="eml.species" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="species" />
    <constructor-arg name="xpath" value="//taxonomicClassification/
↳ taxonRankValue[../taxonRankName=&quot;Species&quot; or ../taxonRankName=&quot;
↳ species&quot;]/text()" />
    <property name="multivalue" value="true" />
    <property name="dedupe" value="true" />
</bean>

```

### 12.3.24 eml.kingdom

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳ springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳ id="eml.kingdom" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="kingdom" />
    <constructor-arg name="xpath" value="//taxonomicClassification/
↳ taxonRankValue[../taxonRankName=&quot;Kingdom&quot; or ../taxonRankName=&quot;
↳ kingdom&quot;]/text()" />
    <property name="multivalue" value="true" />
    <property name="dedupe" value="true" />
</bean>

```

### 12.3.25 eml.order

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳ springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳ id="eml.order" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="order" />
    <constructor-arg name="xpath" value="//taxonomicClassification/
↳ taxonRankValue[../taxonRankName=&quot;Order&quot; or ../taxonRankName=&quot;order&
↳ quot;]/text()" />
    <property name="multivalue" value="true" />
    <property name="dedupe" value="true" />
</bean>

```

### 12.3.26 eml.phylum

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.phylum" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="phylum"/>
    <constructor-arg name="xpath" value="//taxonomicClassification/
↳taxonRankValue[../taxonRankName=&quot;Phylum&quot; or ../taxonRankName=&quot;phylum&
↳quot;]/text() | //taxonomicClassification/taxonRankValue[../taxonRankName=&quot;
↳Division&quot; or ../taxonRankName=&quot;division&quot;]/text()"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>

```

### 12.3.27 eml.family

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.family" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="family"/>
    <constructor-arg name="xpath" value="//taxonomicClassification/
↳taxonRankValue[../taxonRankName=&quot;Family&quot; or ../taxonRankName=&quot;family&
↳quot;]/text()"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>

```

### 12.3.28 eml.class

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.class" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="class"/>
    <constructor-arg name="xpath" value="//taxonomicClassification/
↳taxonRankValue[../taxonRankName=&quot;Class&quot; or ../taxonRankName=&quot;class&
↳quot;]/text()"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>

```

### 12.3.29 eml.scientificName

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.scientificName" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="true" p:root-ref="eml.scientificNameRoot">
    <constructor-arg name="name" value="scientificName"/>
</bean>

```

### 12.3.30 eml.attributeName

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.attributeName" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="attributeName"/>
    <constructor-arg name="xpath" value="//dataTable/attributeList/attribute/
↳attributeName/text()" />
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="false"/>
</bean>
```

### 12.3.31 eml.attributeLabel

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.attributeLabel" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="attributeLabel"/>
    <constructor-arg name="xpath" value="//dataTable/attributeList/attribute/
↳attributeLabel/text()" />
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="false"/>
</bean>
```

### 12.3.32 eml.attributeDescription

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.attributeDescription" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="attributeDescription"/>
    <constructor-arg name="xpath" value="//dataTable/attributeList/attribute/
↳attributeDefinition/text()" />
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="false"/>
</bean>
```

### 12.3.33 eml.attributeUnit

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.attributeUnit" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="attributeUnit"/>
    <constructor-arg name="xpath" value="//dataTable//standardUnit/text() | /
↳/dataTable//customUnit/text()" />
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="false"/>
</bean>
```

### 12.3.34 eml.attributeText

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.attributeText" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="true" p:root-ref="eml.attributeTextRoot">
    <constructor-arg name="name" value="attribute"/>
</bean>
```

### 12.3.35 eml.fileID

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.fileID" class="org.dataone.cn.indexer.parser.ResolveSolrField">
    <constructor-arg name="name" value="fileID"/>
</bean>
```

### 12.3.36 eml.fullText

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.fullText" class="org.dataone.cn.indexer.parser.AggregateSolrField">
    <property name="name" value="text"/>
    <property name="solrFields">
        <list>
            <ref bean="eml.text"/>
            <ref bean="eml.attributeName.noDupe"/>
            <ref bean="eml.attributeLabel.noDupe"/>
            <ref bean="eml.attributeDescription.noDupe"/>
            <ref bean="eml.attributeUnit.noDupe"/>
        </list>
    </property>
</bean>
```

### 12.3.37 eml.geohash1

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.geohash1" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="true" p:root-ref="eml.geohashRoot">
    <constructor-arg name="name" value="geohash_1"/>
    <property name="converter" ref="geohashConverter_1"/>
</bean>
```

### 12.3.38 eml.geohash2

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.geohash2" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="true" p:root-ref="eml.geohashRoot">
    <constructor-arg name="name" value="geohash_2"/>
    <property name="converter" ref="geohashConverter_2"/>
</bean>

```

### 12.3.39 eml.geohash3

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.geohash3" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="true" p:root-ref="eml.geohashRoot">
    <constructor-arg name="name" value="geohash_3"/>
    <property name="converter" ref="geohashConverter_3"/>
</bean>

```

### 12.3.40 eml.geohash4

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.geohash4" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="true" p:root-ref="eml.geohashRoot">
    <constructor-arg name="name" value="geohash_4"/>
    <property name="converter" ref="geohashConverter_4"/>
</bean>

```

### 12.3.41 eml.geohash5

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.geohash5" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="true" p:root-ref="eml.geohashRoot">
    <constructor-arg name="name" value="geohash_5"/>
    <property name="converter" ref="geohashConverter_5"/>
</bean>

```

### 12.3.42 eml.geohash6

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.geohash6" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="true" p:root-ref="eml.geohashRoot">
    <constructor-arg name="name" value="geohash_6"/>
    <property name="converter" ref="geohashConverter_6"/>
</bean>

```

### 12.3.43 eml.geohash7

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.geohash7" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="true" p:root-ref="eml.geohashRoot">
    <constructor-arg name="name" value="geohash_7"/>
    <property name="converter" ref="geohashConverter_7"/>
</bean>
```

### 12.3.44 eml.geohash8

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.geohash8" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="true" p:root-ref="eml.geohashRoot">
    <constructor-arg name="name" value="geohash_8"/>
    <property name="converter" ref="geohashConverter_8"/>
</bean>
```

### 12.3.45 eml.geohash9

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.geohash9" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="true" p:root-ref="eml.geohashRoot">
    <constructor-arg name="name" value="geohash_9"/>
    <property name="converter" ref="geohashConverter_9"/>
</bean>
```

### 12.3.46 eml.isService

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.isService" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="isService"/>
    <constructor-arg name="xpath" value="//software/implementation/
↳distribution/online/url"/>
</bean>
```

### 12.3.47 eml.serviceTitle

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.serviceTitle" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="serviceTitle"/>
    <constructor-arg name="xpath" value="//software/title//text() [normalize-
↳space() ]"/>
    <property name="combineNodes" value="true"/>
</bean>
```

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```
</bean>
  <property name="combineDelimiter" value=":"/>
```

### 12.3.48 eml.serviceDescription

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.serviceDescription" class="org.dataone.cn.indexer.parser.SolrField">
  <constructor-arg name="name" value="serviceDescription"/>
  <constructor-arg name="xpath" value="//software/abstract//
↳text() [normalize-space() ]"/>
  <property name="combineNodes" value="true"/>
  <property name="combineDelimiter" value=":"/>
</bean>
```

### 12.3.49 eml.serviceEndpoint

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.serviceEndpoint" class="org.dataone.cn.indexer.parser.SolrField">
  <constructor-arg name="name" value="serviceEndpoint"/>
  <constructor-arg name="xpath" value="//software/implementation/
↳distribution/online/url/text()"/>
  <property name="multivalue" value="true"/>
</bean>
```



---

## Ecological Markup Language, v2.1.0

---

Describes parser configuration for: eml210Subprocessor

### 13.1 Format IDs Processed

This parser processes the following DataONE format IDs:

- Ecological Metadata Language, version 2.1.0  
formatId: eml://ecoinformatics.org/eml-2.1.0

A full list of DataONE format IDs can be found at <https://cn.dataone.org/cn/v2/formats/>

### 13.2 Fields

The following fields in the solr index are populated from values retrieved from this type of metadata document. Note that these are in addition to the information extracted from *System Metadata Parser*.

Solr Field	Multi	Dedupe	Source
<i>Index.abstract</i>	False	False	<p>//dataset/abstract/descendant::text ()</p> <p>Processor: MergeSolrField Configuration: <i>eml.abstract</i></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.keywords</i>	True	True	<p>//dataset/keywordSet/keyword/text ()</p> <p>Processor: SolrField Configuration: <i>eml.keywords</i></p>
<i>Index.title</i>	False	False	<p>//dataset/title/text ()</p> <p>Processor: SolrField Configuration: <i>eml.title</i></p>
<i>Index.project</i>	True	False	<p>//dataset/project/title/text ()</p> <p>Processor: SolrField Configuration: <i>eml.project</i></p>
<i>Index.southBoundCoord</i>	False	False	<p>//dataset/coverage/geographicCoverage/ ↔boundingCoordinates/ southBoundingCoordinate/text ()</p> <p>Processor: SolrField Configuration: <i>eml.southBoundCoord</i></p> <p>Converter: SolrLatitudeConverter</p>
<i>Index.northBoundCoord</i>	False	False	<p>//dataset/coverage/geographicCoverage/ ↔boundingCoordinates/ northBoundingCoordinate/text ()</p> <p>Processor: SolrField Configuration: <i>eml.northBoundCoord</i></p> <p>Converter: SolrLatitudeConverter</p>
<i>Index.westBoundCoord</i>	False	False	<p>//dataset/coverage/geographicCoverage/ ↔boundingCoordinates/ westBoundingCoordinate/text ()</p> <p>Processor: SolrField Configuration: <i>eml.westBoundCoord</i></p> <p>Converter: SolrLongitudeConverter</p>

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Table 1 – continued from previous page

Solr Field	Multi	Duplicate	Source
<i>Index.eastBoundCoord</i>	False	False	<pre>//dataset/coverage/geographicCoverage/ ↳boundingCoordinates/ eastBoundingCoordinate/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.eastBoundCoord</i> Converter: SolrLongitudeConverter</p>
<i>Index.site</i>	True	False	<pre>//dataset/coverage/geographicCoverage/ ↳geographicDescription/ text ()</pre> <p>Processor: SolrField Configuration: <i>eml.site</i></p>
<i>Index.beginDate</i>	False	False	<pre>//dataset/coverage/temporalCoverage/ ↳rangeOfDates/beginDate/ calendarDate/text ()   //dataset/coverage/ temporalCoverage/singleDateTime/calendarDate/ ↳text ()</pre> <p>Processor: SolrField Configuration: <i>eml.beginDate</i> Converter: SolrDateConverter</p>
<i>Index.endDate</i>	False	False	<pre>//dataset/coverage/temporalCoverage/ ↳rangeOfDates/endDate/ calendarDate/text ()   //dataset/coverage/ temporalCoverage/singleDateTime/calendarDate/ ↳text ()</pre> <p>Processor: SolrField Configuration: <i>eml.endDate</i> Converter: SolrDateConverter</p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.pubDate</i>	False	False	<pre>//dataset/pubDate/text()</pre> <p>Processor: SolrField Configuration: <i>eml.pubDate</i> Converter: SolrDateConverter</p>
<i>Index.author</i>	False		<pre>//dataset/creator/individualName -&gt;{   ↳{[givenName] [surName]   }}; givenName = givenName/text(); surName =   ↳surName/   text()</pre> <p>Processor: CommonRootSolrField Configuration: <i>eml.author</i> Notes: This bean uses a template populated from additional sources. See configuration for more details.</p>
<i>Index.authorGivenName</i>	False	False	<pre>//dataset/creator[1]/individualName[1]/   ↳givenName/text()</pre> <p>Processor: SolrField Configuration: <i>eml.authorGivenName</i></p>
<i>Index.authorSurName</i>	False	False	<pre>//dataset/creator[1]/individualName[1]/surName/   ↳text()</pre> <p>Processor: SolrField Configuration: <i>eml.authorSurName</i></p>
<i>Index.authorGivenNameSort</i>	False	False	<pre>//dataset/creator[1]/individualName[1]/   ↳givenName/text()</pre> <p>Processor: SolrField Configuration: <i>eml.authorGivenNameSort</i></p>
<i>Index.authorSurNameSort</i>	False	False	<pre>//dataset/creator[1]/individualName[1]/surName/   ↳text()</pre> <p>Processor: SolrField Configuration: <i>eml.authorSurNameSort</i></p>

Continued on next page

Table 1 – continued from previous page

Solr Field	Multi	Duplicate	Source
<i>Index.authorLastName</i>	True	False	<pre>//dataset/creator/individualName/surName/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.author_lname</i></p>
<i>Index.investigator</i>	True	False	<pre>//dataset/creator/individualName/surName/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.investigator</i></p>
<i>Index.origin</i>	False		<pre>//dataset/creator -&gt;{   &lt;-{[individualName]  [organizationName] }; organizationName = organizationName/text () individualName -&gt;{[givenName] [surName]}; givenName = givenName/text (); surName = surName/ text ()</pre> <p>Processor: CommonRootSolrField Configuration: <i>eml.origin</i> Notes: This bean uses a template populated from additional sources. See configuration for more details.</p>
<i>Index.contactOrganization</i>	True	True	<pre>//dataset/creator/organizationName/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.contactOrganization</i></p>
<i>Index.genus</i>	True	True	<pre>//taxonomicClassification/taxonRankValue[.. / &lt;-taxonRankName= "Genus" or ../taxonRankName="genus"]/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.genus</i></p>
<i>Index.species</i>	True	True	<pre>//taxonomicClassification/taxonRankValue[.. / &lt;-taxonRankName= "Species" or ../taxonRankName="species"]/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.species</i></p>

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Table 1 – continued from previous page

Solr Field	Multi	Duplicate	Source
<i>Index.kingdom</i>	True	True	<pre>//taxonomicClassification/taxonRankValue[../ ↳taxonRankName= "Kingdom" or ../taxonRankName="kingdom"]/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.kingdom</i></p>
<i>Index.order</i>	True	True	<pre>//taxonomicClassification/taxonRankValue[../ ↳taxonRankName= "Order" or ../taxonRankName="order"]/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.order</i></p>
<i>Index.phylum</i>	True	True	<pre>//taxonomicClassification/taxonRankValue[../ ↳taxonRankName= "Phylum" or ../taxonRankName="phylum"]/text ()   ↳// taxonomicClassification/taxonRankValue[../ taxonRankName="Division" or ../taxonRankName= "division"]/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.phylum</i></p>
<i>Index.family</i>	True	True	<pre>//taxonomicClassification/taxonRankValue[../ ↳taxonRankName= "Family" or ../taxonRankName="family"]/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.family</i></p>
<i>Index.class</i>	True	True	<pre>//taxonomicClassification/taxonRankValue[../ ↳taxonRankName= "Class" or ../taxonRankName="class"]/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.class</i></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.scientificName</i>	False		<pre>//taxonomicClassification[../taxonRankName= ↪"Genus" or ../ taxonRankName="genus"] -&gt;{[genus] [species]}; genus = ../taxonRankValue/text(); species = taxonRankValue/text()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>eml.scientificName</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.</p>
<i>Index.attributeName</i>	True	False	<pre>//dataTable/attributeList/attribute/ ↪attributeName/text()</pre> <p>Processor: <a href="#">SolrField</a>  Configuration: <i>eml.attributeName</i></p>
<i>Index.attributeLabel</i>	True	False	<pre>//dataTable/attributeList/attribute/ ↪attributeLabel/text()</pre> <p>Processor: <a href="#">SolrField</a>  Configuration: <i>eml.attributeLabel</i></p>
<i>Index.attributeDescription</i>	True	False	<pre>//dataTable/attributeList/attribute/ ↪attributeDefinition/ text()</pre> <p>Processor: <a href="#">SolrField</a>  Configuration: <i>eml.attributeDescription</i></p>
<i>Index.attributeUnit</i>	True	False	<pre>//dataTable//standardUnit/text()   //dataTable// ↪customUnit/ text()</pre> <p>Processor: <a href="#">SolrField</a>  Configuration: <i>eml.attributeUnit</i></p>

Continued on next page

Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.attribute</i>	False		<pre>//dataTable/attributeList/attribute -&gt;{   &lt;-&gt;{[attributeName] [     attributeLabel] [attributeDescription] [     attributeUnit]}}; attributeName = attributeName/ text(); attributeLabel = attributeLabel/text(); attributeDescription = attributeDefinition/   &lt;-&gt;text (); attributeUnit = ../standardUnit/text ()   ../ customUnit/text ()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>eml.attributeText</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.</p>
<i>Index.fileID</i>			<p>Processor: <a href="#">ResolveSolrField</a>  Configuration: <i>eml.fileID</i>  Notes: SolrField which configures the resolve url for the document being processed.  Converter:</p>
<i>Index.text</i>			<p>Processor: <a href="#">AggregateSolrField</a>  Configuration: <i>eml.fullText</i>  Converter:</p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_1</i>	False		<pre>//dataset/coverage/geographicCoverage/ ↪boundingCoordinates -&gt;{{ [northBoundingCoordinate] [ southBoundingCoordinate]↵ ↪[eastBoundingCoordinate] [ westBoundingCoordinate]}};↵ ↪northBoundingCoordinate = northBoundingCoordinate/text (); southBoundingCoordinate =↵ ↪southBoundingCoordinate/ text (); eastBoundingCoordinate = eastBoundingCoordinate/text (); westBoundingCoordinate = westBoundingCoordinate/ text ()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>eml.geohash1</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>
<i>Index.geohash_2</i>	False		<pre>//dataset/coverage/geographicCoverage/ ↪boundingCoordinates -&gt;{{ [northBoundingCoordinate] [ southBoundingCoordinate]↵ ↪[eastBoundingCoordinate] [ westBoundingCoordinate]}};↵ ↪northBoundingCoordinate = northBoundingCoordinate/text (); southBoundingCoordinate =↵ ↪southBoundingCoordinate/ text (); eastBoundingCoordinate = eastBoundingCoordinate/text (); westBoundingCoordinate = westBoundingCoordinate/ text ()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>eml.geohash2</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_3</i>	False		<pre>//dataset/coverage/geographicCoverage/ ↳boundingCoordinates -&gt;{{ [northBoundingCoordinate] [ southBoundingCoordinate]↳ ↳[eastBoundingCoordinate] [ westBoundingCoordinate]}};↳ ↳northBoundingCoordinate = northBoundingCoordinate/text (); southBoundingCoordinate =↳ ↳southBoundingCoordinate/ text (); eastBoundingCoordinate = eastBoundingCoordinate/text (); westBoundingCoordinate = westBoundingCoordinate/ text ()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>eml.geohash3</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>
<i>Index.geohash_4</i>	False		<pre>//dataset/coverage/geographicCoverage/ ↳boundingCoordinates -&gt;{{ [northBoundingCoordinate] [ southBoundingCoordinate]↳ ↳[eastBoundingCoordinate] [ westBoundingCoordinate]}};↳ ↳northBoundingCoordinate = northBoundingCoordinate/text (); southBoundingCoordinate =↳ ↳southBoundingCoordinate/ text (); eastBoundingCoordinate = eastBoundingCoordinate/text (); westBoundingCoordinate = westBoundingCoordinate/ text ()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>eml.geohash4</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_5</i>	False		<pre>//dataset/coverage/geographicCoverage/ ↪boundingCoordinates -&gt;{{ [northBoundingCoordinate] [ southBoundingCoordinate]↪ ↪[eastBoundingCoordinate] [ westBoundingCoordinate]}};↪ ↪northBoundingCoordinate = northBoundingCoordinate/text(); southBoundingCoordinate =↪ ↪southBoundingCoordinate/ text(); eastBoundingCoordinate = eastBoundingCoordinate/text(); westBoundingCoordinate = westBoundingCoordinate/ text()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>eml.geohash5</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>
<i>Index.geohash_6</i>	False		<pre>//dataset/coverage/geographicCoverage/ ↪boundingCoordinates -&gt;{{ [northBoundingCoordinate] [ southBoundingCoordinate]↪ ↪[eastBoundingCoordinate] [ westBoundingCoordinate]}};↪ ↪northBoundingCoordinate = northBoundingCoordinate/text(); southBoundingCoordinate =↪ ↪southBoundingCoordinate/ text(); eastBoundingCoordinate = eastBoundingCoordinate/text(); westBoundingCoordinate = westBoundingCoordinate/ text()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>eml.geohash6</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_7</i>	False		<pre>//dataset/coverage/geographicCoverage/ ↳boundingCoordinates -&gt;{{ [northBoundingCoordinate] [ southBoundingCoordinate]↳ ↳[eastBoundingCoordinate] [ westBoundingCoordinate]}};↳ ↳northBoundingCoordinate = northBoundingCoordinate/text (); southBoundingCoordinate =↳ ↳southBoundingCoordinate/ text (); eastBoundingCoordinate = eastBoundingCoordinate/text (); westBoundingCoordinate = westBoundingCoordinate/ text ()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>eml.geohash7</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>
<i>Index.geohash_8</i>	False		<pre>//dataset/coverage/geographicCoverage/ ↳boundingCoordinates -&gt;{{ [northBoundingCoordinate] [ southBoundingCoordinate]↳ ↳[eastBoundingCoordinate] [ westBoundingCoordinate]}};↳ ↳northBoundingCoordinate = northBoundingCoordinate/text (); southBoundingCoordinate =↳ ↳southBoundingCoordinate/ text (); eastBoundingCoordinate = eastBoundingCoordinate/text (); westBoundingCoordinate = westBoundingCoordinate/ text ()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>eml.geohash8</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_9</i>	False		<pre>//dataset/coverage/geographicCoverage/ ↪boundingCoordinates -&gt;{{ [northBoundingCoordinate] [ southBoundingCoordinate] ↪ ↪ [eastBoundingCoordinate] [ westBoundingCoordinate] }}; ↪ ↪northBoundingCoordinate = northBoundingCoordinate/text (); southBoundingCoordinate = ↪ ↪southBoundingCoordinate/ text (); eastBoundingCoordinate = eastBoundingCoordinate/text (); westBoundingCoordinate = westBoundingCoordinate/ text ()</pre> <p>Processor: <code>CommonRootSolrField</code>  Configuration: <code>eml.geohash9</code>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <code>GeohashConverter</code></p>
<i>Index.isService</i>	False	False	<pre>boolean(//software/implementation/distribution/ ↪online/url)</pre> <p>Processor: <code>SolrField</code>  Configuration: <code>eml.isService</code></p>
<i>Index.serviceTitle</i>	False	False	<pre>//software/title//text () [normalize-space ()]</pre> <p>Processor: <code>SolrField</code>  Configuration: <code>eml.serviceTitle</code></p>
<i>Index.serviceDescription</i>	False	False	<pre>//software/abstract//text () [normalize-space ()]</pre> <p>Processor: <code>SolrField</code>  Configuration: <code>eml.serviceDescription</code></p>
<i>Index.serviceEndpoint</i>	True	False	<pre>//software/implementation/distribution/online/ ↪url/text ()</pre> <p>Processor: <code>SolrField</code>  Configuration: <code>eml.serviceEndpoint</code></p>

## 13.3 Bean Configurations

### 13.3.1 eml.abstract

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.abstract" class="org.dataone.cn.indexer.parser.MergeSolrField">
  <constructor-arg name="name" value="abstract"/>
  <constructor-arg name="xpath" value="//dataset/abstract/descendant::text()"/>
  <constructor-arg name="delimiter" value=""/>
  <property name="multivalue" value="false"/>
  <property name="dedupe" value="false"/>
</bean>
```

### 13.3.2 eml.keywords

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.keywords" class="org.dataone.cn.indexer.parser.SolrField">
  <constructor-arg name="name" value="keywords"/>
  <constructor-arg name="xpath" value="//dataset/keywordSet/keyword/text()
↳"/>
  <property name="multivalue" value="true"/>
  <property name="dedupe" value="true"/>
</bean>
```

### 13.3.3 eml.title

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.title" class="org.dataone.cn.indexer.parser.SolrField">
  <constructor-arg name="name" value="title"/>
  <constructor-arg name="xpath" value="//dataset/title/text()"/>
  <property name="multivalue" value="false"/>
</bean>
```

### 13.3.4 eml.project

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.project" class="org.dataone.cn.indexer.parser.SolrField">
  <constructor-arg name="name" value="project"/>
  <constructor-arg name="xpath" value="//dataset/project/title/text()"/>
  <property name="multivalue" value="true"/>
</bean>
```



### 13.3.5 eml.southBoundCoord

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.southBoundCoord" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="southBoundCoord"/>
    <constructor-arg name="xpath" value="//dataset/coverage/
↳geographicCoverage/boundingCoordinates/southBoundingCoordinate/text()" />
    <property name="multivalue" value="false"/>
    <property name="converter" ref="solrLatitudeConverter"/>
</bean>
```

### 13.3.6 eml.northBoundCoord

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.northBoundCoord" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="northBoundCoord"/>
    <constructor-arg name="xpath" value="//dataset/coverage/
↳geographicCoverage/boundingCoordinates/northBoundingCoordinate/text()" />
    <property name="multivalue" value="false"/>
    <property name="converter" ref="solrLatitudeConverter"/>
</bean>
```

### 13.3.7 eml.westBoundCoord

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.westBoundCoord" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="westBoundCoord"/>
    <constructor-arg name="xpath" value="//dataset/coverage/
↳geographicCoverage/boundingCoordinates/westBoundingCoordinate/text()" />
    <property name="multivalue" value="false"/>
    <property name="converter" ref="solrLongitudeConverter"/>
</bean>
```

### 13.3.8 eml.eastBoundCoord

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.eastBoundCoord" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="eastBoundCoord"/>
    <constructor-arg name="xpath" value="//dataset/coverage/
↳geographicCoverage/boundingCoordinates/eastBoundingCoordinate/text()" />
    <property name="multivalue" value="false"/>
    <property name="converter" ref="solrLongitudeConverter"/>
</bean>
```

### 13.3.9 eml.site

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.site" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="site"/>
    <constructor-arg name="xpath" value="//dataset/coverage/
↳geographicCoverage/geographicDescription/text ()"/>
    <property name="multivalue" value="true"/>
</bean>
```

### 13.3.10 eml.beginDate

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.beginDate" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="beginDate"/>
    <constructor-arg name="xpath" value="//dataset/coverage/temporalCoverage/
↳rangeOfDates/beginDate/calendarDate/text () | //dataset/coverage/temporalCoverage/
↳singleDateTime/calendarDate/text ()"/>
    <property name="multivalue" value="false"/>
    <property name="converter" ref="dateConverter"/>
</bean>
```

### 13.3.11 eml.endDate

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.endDate" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="endDate"/>
    <constructor-arg name="xpath" value="//dataset/coverage/temporalCoverage/
↳rangeOfDates/endDate/calendarDate/text () | //dataset/coverage/temporalCoverage/
↳singleDateTime/calendarDate/text ()"/>
    <property name="multivalue" value="false"/>
    <property name="converter" ref="dateConverter"/>
</bean>
```

### 13.3.12 eml.pubDate

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.pubDate" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="pubDate"/>
    <constructor-arg name="xpath" value="//dataset/pubDate/text ()"/>
    <property name="multivalue" value="false"/>
    <property name="converter" ref="dateConverter"/>
</bean>
```

### 13.3.13 eml.author

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.author" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="false" p:root-ref="eml.authorNameRoot">
    <constructor-arg name="name" value="author"/>
</bean>
```

### 13.3.14 eml.authorGivenName

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.authorGivenName" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="authorGivenName"/>
    <constructor-arg name="xpath" value="//dataset/creator[1]/
↳individualName[1]/givenName/text ()"/>
</bean>
```

### 13.3.15 eml.authorSurName

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.authorSurName" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="authorSurName"/>
    <constructor-arg name="xpath" value="//dataset/creator[1]/
↳individualName[1]/surName/text ()"/>
</bean>
```

### 13.3.16 eml.authorGivenNameSort

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.authorGivenNameSort" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="authorGivenNameSort"/>
    <constructor-arg name="xpath" value="//dataset/creator[1]/
↳individualName[1]/givenName/text ()"/>
</bean>
```

### 13.3.17 eml.authorSurNameSort

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.authorSurNameSort" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="authorSurNameSort"/>
    <constructor-arg name="xpath" value="//dataset/creator[1]/
↳individualName[1]/surName/text ()"/>
</bean>
```

### 13.3.18 eml.author\_lname

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.author_lname" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="authorLastName"/>
    <constructor-arg name="xpath" value="//dataset/creator/individualName/
↳surName/text()" />
    <property name="multivalue" value="true"/>
</bean>
```

### 13.3.19 eml.investigator

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.investigator" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="investigator"/>
    <constructor-arg name="xpath" value="//dataset/creator/individualName/
↳surName/text()" />
    <property name="multivalue" value="true"/>
</bean>
```

### 13.3.20 eml.origin

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.origin" class="org.dataone.cn.indexer.parser.CommonRootSolrField">
↳p:multivalue="true" p:root-ref="eml.originRoot">
    <constructor-arg name="name" value="origin"/>
</bean>
```

### 13.3.21 eml.contactOrganization

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.contactOrganization" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="contactOrganization"/>
    <constructor-arg name="xpath" value="//dataset/creator/organizationName/
↳text()" />
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>
```

### 13.3.22 eml.genus

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.genus" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="genus"/>
```

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```

    <constructor-arg name="xpath" value="//taxonomicClassification/
↳ taxonRankValue[../taxonRankName=&quot;Genus&quot; or ../taxonRankName=&quot;genus&
↳ quot;]/text () "/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>

```

### 13.3.23 eml.species

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳ springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳ id="eml.species" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="species"/>
    <constructor-arg name="xpath" value="//taxonomicClassification/
↳ taxonRankValue[../taxonRankName=&quot;Species&quot; or ../taxonRankName=&quot;
↳ species&quot;]/text () "/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>

```

### 13.3.24 eml.kingdom

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳ springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳ id="eml.kingdom" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="kingdom"/>
    <constructor-arg name="xpath" value="//taxonomicClassification/
↳ taxonRankValue[../taxonRankName=&quot;Kingdom&quot; or ../taxonRankName=&quot;
↳ kingdom&quot;]/text () "/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>

```

### 13.3.25 eml.order

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳ springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳ id="eml.order" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="order"/>
    <constructor-arg name="xpath" value="//taxonomicClassification/
↳ taxonRankValue[../taxonRankName=&quot;Order&quot; or ../taxonRankName=&quot;order&
↳ quot;]/text () "/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>

```

### 13.3.26 eml.phylum

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.phylum" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="phylum"/>
    <constructor-arg name="xpath" value="//taxonomicClassification/
↳taxonRankValue[../taxonRankName=&quot;Phylum&quot; or ../taxonRankName=&quot;phylum&
↳quot;]/text() | //taxonomicClassification/taxonRankValue[../taxonRankName=&quot;
↳Division&quot; or ../taxonRankName=&quot;division&quot;]/text()"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>
```

### 13.3.27 eml.family

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.family" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="family"/>
    <constructor-arg name="xpath" value="//taxonomicClassification/
↳taxonRankValue[../taxonRankName=&quot;Family&quot; or ../taxonRankName=&quot;family&
↳quot;]/text()"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>
```

### 13.3.28 eml.class

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.class" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="class"/>
    <constructor-arg name="xpath" value="//taxonomicClassification/
↳taxonRankValue[../taxonRankName=&quot;Class&quot; or ../taxonRankName=&quot;class&
↳quot;]/text()"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>
```

### 13.3.29 eml.scientificName

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.scientificName" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="true" p:root-ref="eml.scientificNameRoot">
    <constructor-arg name="name" value="scientificName"/>
</bean>
```

### 13.3.30 eml.attributeName

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.attributeName" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="attributeName"/>
    <constructor-arg name="xpath" value="//dataTable/attributeList/attribute/
↳attributeName/text()" />
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="false"/>
</bean>
```

### 13.3.31 eml.attributeLabel

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.attributeLabel" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="attributeLabel"/>
    <constructor-arg name="xpath" value="//dataTable/attributeList/attribute/
↳attributeLabel/text()" />
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="false"/>
</bean>
```

### 13.3.32 eml.attributeDescription

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.attributeDescription" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="attributeDescription"/>
    <constructor-arg name="xpath" value="//dataTable/attributeList/attribute/
↳attributeDefinition/text()" />
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="false"/>
</bean>
```

### 13.3.33 eml.attributeUnit

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.attributeUnit" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="attributeUnit"/>
    <constructor-arg name="xpath" value="//dataTable//standardUnit/text() | /
↳/dataTable//customUnit/text()" />
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="false"/>
</bean>
```

### 13.3.34 eml.attributeText

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.attributeText" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="true" p:root-ref="eml.attributeTextRoot">
    <constructor-arg name="name" value="attribute"/>
</bean>
```

### 13.3.35 eml.fileID

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.fileID" class="org.dataone.cn.indexer.parser.ResolveSolrField">
    <constructor-arg name="name" value="fileID"/>
</bean>
```

### 13.3.36 eml.fullText

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.fullText" class="org.dataone.cn.indexer.parser.AggregateSolrField">
    <property name="name" value="text"/>
    <property name="solrFields">
        <list>
            <ref bean="eml.text"/>
            <ref bean="eml.attributeName.noDupe"/>
            <ref bean="eml.attributeLabel.noDupe"/>
            <ref bean="eml.attributeDescription.noDupe"/>
            <ref bean="eml.attributeUnit.noDupe"/>
        </list>
    </property>
</bean>
```

### 13.3.37 eml.geohash1

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.geohash1" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="true" p:root-ref="eml.geohashRoot">
    <constructor-arg name="name" value="geohash_1"/>
    <property name="converter" ref="geohashConverter_1"/>
</bean>
```

### 13.3.38 eml.geohash2



```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.geohash2" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalued="true" p:root-ref="eml.geohashRoot">
    <constructor-arg name="name" value="geohash_2"/>
    <property name="converter" ref="geohashConverter_2"/>
</bean>

```

### 13.3.39 eml.geohash3

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.geohash3" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalued="true" p:root-ref="eml.geohashRoot">
    <constructor-arg name="name" value="geohash_3"/>
    <property name="converter" ref="geohashConverter_3"/>
</bean>

```

### 13.3.40 eml.geohash4

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.geohash4" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalued="true" p:root-ref="eml.geohashRoot">
    <constructor-arg name="name" value="geohash_4"/>
    <property name="converter" ref="geohashConverter_4"/>
</bean>

```

### 13.3.41 eml.geohash5

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.geohash5" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalued="true" p:root-ref="eml.geohashRoot">
    <constructor-arg name="name" value="geohash_5"/>
    <property name="converter" ref="geohashConverter_5"/>
</bean>

```

### 13.3.42 eml.geohash6

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.geohash6" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalued="true" p:root-ref="eml.geohashRoot">
    <constructor-arg name="name" value="geohash_6"/>
    <property name="converter" ref="geohashConverter_6"/>
</bean>

```

### 13.3.43 eml.geohash7

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.geohash7" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="true" p:root-ref="eml.geohashRoot">
    <constructor-arg name="name" value="geohash_7"/>
    <property name="converter" ref="geohashConverter_7"/>
</bean>
```

### 13.3.44 eml.geohash8

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.geohash8" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="true" p:root-ref="eml.geohashRoot">
    <constructor-arg name="name" value="geohash_8"/>
    <property name="converter" ref="geohashConverter_8"/>
</bean>
```

### 13.3.45 eml.geohash9

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.geohash9" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="true" p:root-ref="eml.geohashRoot">
    <constructor-arg name="name" value="geohash_9"/>
    <property name="converter" ref="geohashConverter_9"/>
</bean>
```

### 13.3.46 eml.isService

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.isService" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="isService"/>
    <constructor-arg name="xpath" value="boolean(//software/implementation/
↳distribution/online/url)"/>
</bean>
```

### 13.3.47 eml.serviceTitle

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.serviceTitle" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="serviceTitle"/>
    <constructor-arg name="xpath" value="//software/title//text() [normalize-
↳space() ]"/>
    <property name="combineNodes" value="true"/>
</bean>
```

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```
</bean>
  <property name="combineDelimiter" value=":"/>
```

### 13.3.48 eml.serviceDescription

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.serviceDescription" class="org.dataone.cn.indexer.parser.SolrField">
  <constructor-arg name="name" value="serviceDescription"/>
  <constructor-arg name="xpath" value="//software/abstract//
↳text() [normalize-space() ]"/>
  <property name="combineNodes" value="true"/>
  <property name="combineDelimiter" value=":"/>
</bean>
```

### 13.3.49 eml.serviceEndpoint

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.serviceEndpoint" class="org.dataone.cn.indexer.parser.SolrField">
  <constructor-arg name="name" value="serviceEndpoint"/>
  <constructor-arg name="xpath" value="//software/implementation/
↳distribution/online/url/text()"/>
  <property name="multivalue" value="true"/>
</bean>
```



---

Ecological Markup Language, v2.1.1

---

Describes parser configuration for: eml211Subprocessor

## 14.1 Format IDs Processed

This parser processes the following DataONE format IDs:

- Ecological Metadata Language, version 2.1.1  
formatId: eml://ecoinformatics.org/eml-2.1.1

A full list of DataONE format IDs can be found at <https://cn.dataone.org/cn/v2/formats/>

## 14.2 Fields

The following fields in the solr index are populated from values retrieved from this type of metadata document. Note that these are in addition to the information extracted from *System Metadata Parser*.

Solr Field	Multi	Dedupe	Source
<i>Index.abstract</i>	False	False	<p>//dataset/abstract/descendant::text ()</p> <p>Processor: MergeSolrField Configuration: <i>eml.abstract</i></p>

Continued on next page

Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.keywords</i>	True	True	<pre>//dataset/keywordSet/keyword/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.keywords</i></p>
<i>Index.title</i>	False	False	<pre>//dataset/title/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.title</i></p>
<i>Index.project</i>	True	False	<pre>//dataset/project/title/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.project</i></p>
<i>Index.southBoundCoord</i>	False	False	<pre>//dataset/coverage/geographicCoverage/ ↔boundingCoordinates/ southBoundingCoordinate/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.southBoundCoord</i></p> <p>Converter: SolrLatitudeConverter</p>
<i>Index.northBoundCoord</i>	False	False	<pre>//dataset/coverage/geographicCoverage/ ↔boundingCoordinates/ northBoundingCoordinate/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.northBoundCoord</i></p> <p>Converter: SolrLatitudeConverter</p>
<i>Index.westBoundCoord</i>	False	False	<pre>//dataset/coverage/geographicCoverage/ ↔boundingCoordinates/ westBoundingCoordinate/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.westBoundCoord</i></p> <p>Converter: SolrLongitudeConverter</p>

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Table 1 – continued from previous page

Solr Field	Multi	Duplicate	Source
<i>Index.eastBoundCoord</i>	False	False	<pre>//dataset/coverage/geographicCoverage/ ↳boundingCoordinates/ eastBoundingCoordinate/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.eastBoundCoord</i> Converter: SolrLongitudeConverter</p>
<i>Index.site</i>	True	False	<pre>//dataset/coverage/geographicCoverage/ ↳geographicDescription/ text ()</pre> <p>Processor: SolrField Configuration: <i>eml.site</i></p>
<i>Index.beginDate</i>	False	False	<pre>//dataset/coverage/temporalCoverage/ ↳rangeOfDates/beginDate/ calendarDate/text ()   //dataset/coverage/ temporalCoverage/singleDateTime/calendarDate/ ↳text ()</pre> <p>Processor: SolrField Configuration: <i>eml.beginDate</i> Converter: SolrDateConverter</p>
<i>Index.endDate</i>	False	False	<pre>//dataset/coverage/temporalCoverage/ ↳rangeOfDates/endDate/ calendarDate/text ()   //dataset/coverage/ temporalCoverage/singleDateTime/calendarDate/ ↳text ()</pre> <p>Processor: SolrField Configuration: <i>eml.endDate</i> Converter: SolrDateConverter</p>

Continued on next page

Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.pubDate</i>	False	False	<pre>//dataset/pubDate/text()</pre> <p>Processor: SolrField Configuration: <i>eml.pubDate</i> Converter: SolrDateConverter</p>
<i>Index.author</i>	False		<pre>//dataset/creator/individualName -&gt;{   ↳{[givenName] [surName]   } }; givenName = givenName/text(); surName =   ↳surName/   text()</pre> <p>Processor: CommonRootSolrField Configuration: <i>eml.author</i> Notes: This bean uses a template populated from additional sources. See configuration for more details.</p>
<i>Index.authorGivenName</i>	False	False	<pre>//dataset/creator[1]/individualName[1]/   ↳givenName/text()</pre> <p>Processor: SolrField Configuration: <i>eml.authorGivenName</i></p>
<i>Index.authorSurName</i>	False	False	<pre>//dataset/creator[1]/individualName[1]/surName/   ↳text()</pre> <p>Processor: SolrField Configuration: <i>eml.authorSurName</i></p>
<i>Index.authorGivenNameSort</i>	False	False	<pre>//dataset/creator[1]/individualName[1]/   ↳givenName/text()</pre> <p>Processor: SolrField Configuration: <i>eml.authorGivenNameSort</i></p>
<i>Index.authorSurNameSort</i>	False	False	<pre>//dataset/creator[1]/individualName[1]/surName/   ↳text()</pre> <p>Processor: SolrField Configuration: <i>eml.authorSurNameSort</i></p>

Continued on next page



Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.authorLastName</i>	True	False	<pre>//dataset/creator/individualName/surName/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.author_lname</i></p>
<i>Index.investigator</i>	True	False	<pre>//dataset/creator/individualName/surName/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.investigator</i></p>
<i>Index.origin</i>	False		<pre>//dataset/creator -&gt;{   &lt;-{[individualName]  [organizationName] }; organizationName = organizationName/text () individualName -&gt;{[givenName] [surName]}; givenName = givenName/text (); surName = surName/ text ()</pre> <p>Processor: CommonRootSolrField Configuration: <i>eml.origin</i> Notes: This bean uses a template populated from additional sources. See configuration for more details.</p>
<i>Index.contactOrganization</i>	True	True	<pre>//dataset/creator/organizationName/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.contactOrganization</i></p>
<i>Index.genus</i>	True	True	<pre>//taxonomicClassification/taxonRankValue[.. / &lt;-taxonRankName= "Genus" or ../taxonRankName="genus"]/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.genus</i></p>
<i>Index.species</i>	True	True	<pre>//taxonomicClassification/taxonRankValue[.. / &lt;-taxonRankName= "Species" or ../taxonRankName="species"]/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.species</i></p>

Continued on next page

Table 1 – continued from previous page

Solr Field	Multi	Duplicate	Source
<i>Index.kingdom</i>	True	True	<pre>//taxonomicClassification/taxonRankValue[../ ↳taxonRankName= "Kingdom" or ../taxonRankName="kingdom"]/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.kingdom</i></p>
<i>Index.order</i>	True	True	<pre>//taxonomicClassification/taxonRankValue[../ ↳taxonRankName= "Order" or ../taxonRankName="order"]/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.order</i></p>
<i>Index.phylum</i>	True	True	<pre>//taxonomicClassification/taxonRankValue[../ ↳taxonRankName= "Phylum" or ../taxonRankName="phylum"]/text ()   ↳// taxonomicClassification/taxonRankValue[../ taxonRankName="Division" or ../taxonRankName= "division"]/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.phylum</i></p>
<i>Index.family</i>	True	True	<pre>//taxonomicClassification/taxonRankValue[../ ↳taxonRankName= "Family" or ../taxonRankName="family"]/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.family</i></p>
<i>Index.class</i>	True	True	<pre>//taxonomicClassification/taxonRankValue[../ ↳taxonRankName= "Class" or ../taxonRankName="class"]/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.class</i></p>

Continued on next page

Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.scientificName</i>	False		<pre>//taxonomicClassification[../taxonRankName= ↪"Genus" or ../ taxonRankName="genus"] -&gt;{[genus] [species]}; genus = ../taxonRankValue/text(); species = taxonRankValue/text()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>eml.scientificName</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.</p>
<i>Index.attributeName</i>	True	False	<pre>//dataTable/attributeList/attribute/ ↪attributeName/text()</pre> <p>Processor: <a href="#">SolrField</a>  Configuration: <i>eml.attributeName</i></p>
<i>Index.attributeLabel</i>	True	False	<pre>//dataTable/attributeList/attribute/ ↪attributeLabel/text()</pre> <p>Processor: <a href="#">SolrField</a>  Configuration: <i>eml.attributeLabel</i></p>
<i>Index.attributeDescription</i>	True	False	<pre>//dataTable/attributeList/attribute/ ↪attributeDefinition/ text()</pre> <p>Processor: <a href="#">SolrField</a>  Configuration: <i>eml.attributeDescription</i></p>
<i>Index.attributeUnit</i>	True	False	<pre>//dataTable//standardUnit/text()   //dataTable// ↪customUnit/ text()</pre> <p>Processor: <a href="#">SolrField</a>  Configuration: <i>eml.attributeUnit</i></p>

Continued on next page

Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.attribute</i>	False		<pre>//dataTable/attributeList/attribute -&gt;{   &lt;-&gt;{[attributeName] [     attributeLabel] [attributeDescription] [     attributeUnit]}}; attributeName = attributeName/ text(); attributeLabel = attributeLabel/text(); attributeDescription = attributeDefinition/   &lt;-&gt;text (); attributeUnit = ../standardUnit/text ()   ../ customUnit/text ()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>eml.attributeText</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.</p>
<i>Index.fileID</i>			<p>Processor: <a href="#">ResolveSolrField</a>  Configuration: <i>eml.fileID</i>  Notes: SolrField which configures the resolve url for the document being processed.  Converter:</p>
<i>Index.text</i>			<p>Processor: <a href="#">AggregateSolrField</a>  Configuration: <i>eml.fullText</i>  Converter:</p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_1</i>	False		<pre>//dataset/coverage/geographicCoverage/ ↪boundingCoordinates -&gt;{{ [northBoundingCoordinate] [ southBoundingCoordinate]↵ ↪[eastBoundingCoordinate] [ westBoundingCoordinate]}};↵ ↪northBoundingCoordinate = northBoundingCoordinate/text(); southBoundingCoordinate =↵ ↪southBoundingCoordinate/ text(); eastBoundingCoordinate = eastBoundingCoordinate/text(); westBoundingCoordinate = westBoundingCoordinate/ text()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>eml.geohash1</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>
<i>Index.geohash_2</i>	False		<pre>//dataset/coverage/geographicCoverage/ ↪boundingCoordinates -&gt;{{ [northBoundingCoordinate] [ southBoundingCoordinate]↵ ↪[eastBoundingCoordinate] [ westBoundingCoordinate]}};↵ ↪northBoundingCoordinate = northBoundingCoordinate/text(); southBoundingCoordinate =↵ ↪southBoundingCoordinate/ text(); eastBoundingCoordinate = eastBoundingCoordinate/text(); westBoundingCoordinate = westBoundingCoordinate/ text()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>eml.geohash2</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_3</i>	False		<pre>//dataset/coverage/geographicCoverage/ ↪boundingCoordinates -&gt;{{ [northBoundingCoordinate] [ southBoundingCoordinate]↵ ↪[eastBoundingCoordinate] [ westBoundingCoordinate]}};↵ ↪northBoundingCoordinate = northBoundingCoordinate/text(); southBoundingCoordinate =↵ ↪southBoundingCoordinate/ text(); eastBoundingCoordinate = eastBoundingCoordinate/text(); westBoundingCoordinate = westBoundingCoordinate/ text()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>eml.geohash3</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>
<i>Index.geohash_4</i>	False		<pre>//dataset/coverage/geographicCoverage/ ↪boundingCoordinates -&gt;{{ [northBoundingCoordinate] [ southBoundingCoordinate]↵ ↪[eastBoundingCoordinate] [ westBoundingCoordinate]}};↵ ↪northBoundingCoordinate = northBoundingCoordinate/text(); southBoundingCoordinate =↵ ↪southBoundingCoordinate/ text(); eastBoundingCoordinate = eastBoundingCoordinate/text(); westBoundingCoordinate = westBoundingCoordinate/ text()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>eml.geohash4</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_5</i>	False		<pre>//dataset/coverage/geographicCoverage/ ↳boundingCoordinates -&gt;{{ [northBoundingCoordinate] [ southBoundingCoordinate]↳ ↳[eastBoundingCoordinate] [ westBoundingCoordinate]}};↳ ↳northBoundingCoordinate = northBoundingCoordinate/text (); southBoundingCoordinate =↳ ↳southBoundingCoordinate/ text (); eastBoundingCoordinate = eastBoundingCoordinate/text (); westBoundingCoordinate = westBoundingCoordinate/ text ()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>eml.geohash5</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>
<i>Index.geohash_6</i>	False		<pre>//dataset/coverage/geographicCoverage/ ↳boundingCoordinates -&gt;{{ [northBoundingCoordinate] [ southBoundingCoordinate]↳ ↳[eastBoundingCoordinate] [ westBoundingCoordinate]}};↳ ↳northBoundingCoordinate = northBoundingCoordinate/text (); southBoundingCoordinate =↳ ↳southBoundingCoordinate/ text (); eastBoundingCoordinate = eastBoundingCoordinate/text (); westBoundingCoordinate = westBoundingCoordinate/ text ()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>eml.geohash6</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_7</i>	False		<pre>//dataset/coverage/geographicCoverage/ ↪boundingCoordinates -&gt;{{ [northBoundingCoordinate] [ southBoundingCoordinate]↵ ↪[eastBoundingCoordinate] [ westBoundingCoordinate]}};↵ ↪northBoundingCoordinate = northBoundingCoordinate/text(); southBoundingCoordinate =↵ ↪southBoundingCoordinate/ text(); eastBoundingCoordinate = eastBoundingCoordinate/text(); westBoundingCoordinate = westBoundingCoordinate/ text()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>eml.geohash7</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>
<i>Index.geohash_8</i>	False		<pre>//dataset/coverage/geographicCoverage/ ↪boundingCoordinates -&gt;{{ [northBoundingCoordinate] [ southBoundingCoordinate]↵ ↪[eastBoundingCoordinate] [ westBoundingCoordinate]}};↵ ↪northBoundingCoordinate = northBoundingCoordinate/text(); southBoundingCoordinate =↵ ↪southBoundingCoordinate/ text(); eastBoundingCoordinate = eastBoundingCoordinate/text(); westBoundingCoordinate = westBoundingCoordinate/ text()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>eml.geohash8</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_9</i>	False		<pre>//dataset/coverage/geographicCoverage/ ↪boundingCoordinates -&gt;{{ [northBoundingCoordinate] [ southBoundingCoordinate] ↪ ↪ [eastBoundingCoordinate] [ westBoundingCoordinate] }}; ↪ ↪northBoundingCoordinate = northBoundingCoordinate/text (); southBoundingCoordinate = ↪ ↪southBoundingCoordinate/ text (); eastBoundingCoordinate = eastBoundingCoordinate/text (); westBoundingCoordinate = westBoundingCoordinate/ text ()</pre> <p>Processor: <code>CommonRootSolrField</code>  Configuration: <code>eml.geohash9</code>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <code>GeohashConverter</code></p>
<i>Index.isService</i>	False	False	<pre>boolean(//software/implementation/distribution/ ↪online/url)</pre> <p>Processor: <code>SolrField</code>  Configuration: <code>eml.isService</code></p>
<i>Index.serviceTitle</i>	False	False	<pre>//software/title//text () [normalize-space ()]</pre> <p>Processor: <code>SolrField</code>  Configuration: <code>eml.serviceTitle</code></p>
<i>Index.serviceDescription</i>	False	False	<pre>//software/abstract//text () [normalize-space ()]</pre> <p>Processor: <code>SolrField</code>  Configuration: <code>eml.serviceDescription</code></p>
<i>Index.serviceEndpoint</i>	True	False	<pre>//software/implementation/distribution/online/ ↪url/text ()</pre> <p>Processor: <code>SolrField</code>  Configuration: <code>eml.serviceEndpoint</code></p>

## 14.3 Bean Configurations

### 14.3.1 eml.abstract

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.abstract" class="org.dataone.cn.indexer.parser.MergeSolrField">
  <constructor-arg name="name" value="abstract"/>
  <constructor-arg name="xpath" value="//dataset/abstract/descendant::text()"/>
  <constructor-arg name="delimiter" value=""/>
  <property name="multivalue" value="false"/>
  <property name="dedupe" value="false"/>
</bean>
```

### 14.3.2 eml.keywords

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.keywords" class="org.dataone.cn.indexer.parser.SolrField">
  <constructor-arg name="name" value="keywords"/>
  <constructor-arg name="xpath" value="//dataset/keywordSet/keyword/text()
↳"/>
  <property name="multivalue" value="true"/>
  <property name="dedupe" value="true"/>
</bean>
```

### 14.3.3 eml.title

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.title" class="org.dataone.cn.indexer.parser.SolrField">
  <constructor-arg name="name" value="title"/>
  <constructor-arg name="xpath" value="//dataset/title/text()"/>
  <property name="multivalue" value="false"/>
</bean>
```

### 14.3.4 eml.project

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.project" class="org.dataone.cn.indexer.parser.SolrField">
  <constructor-arg name="name" value="project"/>
  <constructor-arg name="xpath" value="//dataset/project/title/text()"/>
  <property name="multivalue" value="true"/>
</bean>
```

### 14.3.5 eml.southBoundCoord

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.southBoundCoord" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="southBoundCoord"/>
    <constructor-arg name="xpath" value="//dataset/coverage/
↳geographicCoverage/boundingCoordinates/southBoundingCoordinate/text()" />
    <property name="multivalue" value="false"/>
    <property name="converter" ref="solrLatitudeConverter"/>
</bean>
```

### 14.3.6 eml.northBoundCoord

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.northBoundCoord" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="northBoundCoord"/>
    <constructor-arg name="xpath" value="//dataset/coverage/
↳geographicCoverage/boundingCoordinates/northBoundingCoordinate/text()" />
    <property name="multivalue" value="false"/>
    <property name="converter" ref="solrLatitudeConverter"/>
</bean>
```

### 14.3.7 eml.westBoundCoord

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.westBoundCoord" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="westBoundCoord"/>
    <constructor-arg name="xpath" value="//dataset/coverage/
↳geographicCoverage/boundingCoordinates/westBoundingCoordinate/text()" />
    <property name="multivalue" value="false"/>
    <property name="converter" ref="solrLongitudeConverter"/>
</bean>
```

### 14.3.8 eml.eastBoundCoord

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.eastBoundCoord" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="eastBoundCoord"/>
    <constructor-arg name="xpath" value="//dataset/coverage/
↳geographicCoverage/boundingCoordinates/eastBoundingCoordinate/text()" />
    <property name="multivalue" value="false"/>
    <property name="converter" ref="solrLongitudeConverter"/>
</bean>
```

### 14.3.9 eml.site

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.site" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="site"/>
    <constructor-arg name="xpath" value="//dataset/coverage/
↳geographicCoverage/geographicDescription/text ()"/>
    <property name="multivalue" value="true"/>
</bean>
```

### 14.3.10 eml.beginDate

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.beginDate" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="beginDate"/>
    <constructor-arg name="xpath" value="//dataset/coverage/temporalCoverage/
↳rangeOfDates/beginDate/calendarDate/text () | //dataset/coverage/temporalCoverage/
↳singleDateTime/calendarDate/text ()"/>
    <property name="multivalue" value="false"/>
    <property name="converter" ref="dateConverter"/>
</bean>
```

### 14.3.11 eml.endDate

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.endDate" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="endDate"/>
    <constructor-arg name="xpath" value="//dataset/coverage/temporalCoverage/
↳rangeOfDates/endDate/calendarDate/text () | //dataset/coverage/temporalCoverage/
↳singleDateTime/calendarDate/text ()"/>
    <property name="multivalue" value="false"/>
    <property name="converter" ref="dateConverter"/>
</bean>
```

### 14.3.12 eml.pubDate

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.pubDate" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="pubDate"/>
    <constructor-arg name="xpath" value="//dataset/pubDate/text ()"/>
    <property name="multivalue" value="false"/>
    <property name="converter" ref="dateConverter"/>
</bean>
```

### 14.3.13 eml.author

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.author" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="false" p:root-ref="eml.authorNameRoot">
    <constructor-arg name="name" value="author"/>
</bean>
```

### 14.3.14 eml.authorGivenName

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.authorGivenName" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="authorGivenName"/>
    <constructor-arg name="xpath" value="//dataset/creator[1]/
↳individualName[1]/givenName/text ()"/>
</bean>
```

### 14.3.15 eml.authorSurName

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.authorSurName" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="authorSurName"/>
    <constructor-arg name="xpath" value="//dataset/creator[1]/
↳individualName[1]/surName/text ()"/>
</bean>
```

### 14.3.16 eml.authorGivenNameSort

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.authorGivenNameSort" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="authorGivenNameSort"/>
    <constructor-arg name="xpath" value="//dataset/creator[1]/
↳individualName[1]/givenName/text ()"/>
</bean>
```

### 14.3.17 eml.authorSurNameSort

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.authorSurNameSort" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="authorSurNameSort"/>
    <constructor-arg name="xpath" value="//dataset/creator[1]/
↳individualName[1]/surName/text ()"/>
</bean>
```

### 14.3.18 eml.author\_lname

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.author_lname" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="authorLastName"/>
    <constructor-arg name="xpath" value="//dataset/creator/individualName/
↳surName/text()" />
    <property name="multivalue" value="true"/>
</bean>
```

### 14.3.19 eml.investigator

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.investigator" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="investigator"/>
    <constructor-arg name="xpath" value="//dataset/creator/individualName/
↳surName/text()" />
    <property name="multivalue" value="true"/>
</bean>
```

### 14.3.20 eml.origin

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.origin" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="true" p:root-ref="eml.originRoot">
    <constructor-arg name="name" value="origin"/>
</bean>
```

### 14.3.21 eml.contactOrganization

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.contactOrganization" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="contactOrganization"/>
    <constructor-arg name="xpath" value="//dataset/creator/organizationName/
↳text()" />
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>
```

### 14.3.22 eml.genus

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.genus" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="genus"/>
```

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```

    <constructor-arg name="xpath" value="//taxonomicClassification/
↳ taxonRankValue[../taxonRankName=&quot;Genus&quot; or ../taxonRankName=&quot;genus&
↳ quot;]/text()" />
    <property name="multivalue" value="true" />
    <property name="dedupe" value="true" />
</bean>

```

### 14.3.23 eml.species

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳ springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳ id="eml.species" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="species" />
    <constructor-arg name="xpath" value="//taxonomicClassification/
↳ taxonRankValue[../taxonRankName=&quot;Species&quot; or ../taxonRankName=&quot;
↳ species&quot;]/text()" />
    <property name="multivalue" value="true" />
    <property name="dedupe" value="true" />
</bean>

```

### 14.3.24 eml.kingdom

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳ springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳ id="eml.kingdom" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="kingdom" />
    <constructor-arg name="xpath" value="//taxonomicClassification/
↳ taxonRankValue[../taxonRankName=&quot;Kingdom&quot; or ../taxonRankName=&quot;
↳ kingdom&quot;]/text()" />
    <property name="multivalue" value="true" />
    <property name="dedupe" value="true" />
</bean>

```

### 14.3.25 eml.order

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳ springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳ id="eml.order" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="order" />
    <constructor-arg name="xpath" value="//taxonomicClassification/
↳ taxonRankValue[../taxonRankName=&quot;Order&quot; or ../taxonRankName=&quot;order&
↳ quot;]/text()" />
    <property name="multivalue" value="true" />
    <property name="dedupe" value="true" />
</bean>

```

### 14.3.26 eml.phylum

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.phylum" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="phylum"/>
    <constructor-arg name="xpath" value="//taxonomicClassification/
↳taxonRankValue[../taxonRankName=&quot;Phylum&quot; or ../taxonRankName=&quot;phylum&
↳quot;]/text() | //taxonomicClassification/taxonRankValue[../taxonRankName=&quot;
↳Division&quot; or ../taxonRankName=&quot;division&quot;]/text()"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>

```

### 14.3.27 eml.family

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.family" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="family"/>
    <constructor-arg name="xpath" value="//taxonomicClassification/
↳taxonRankValue[../taxonRankName=&quot;Family&quot; or ../taxonRankName=&quot;family&
↳quot;]/text()"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>

```

### 14.3.28 eml.class

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.class" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="class"/>
    <constructor-arg name="xpath" value="//taxonomicClassification/
↳taxonRankValue[../taxonRankName=&quot;Class&quot; or ../taxonRankName=&quot;class&
↳quot;]/text()"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>

```

### 14.3.29 eml.scientificName

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.scientificName" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="true" p:root-ref="eml.scientificNameRoot">
    <constructor-arg name="name" value="scientificName"/>
</bean>

```



### 14.3.30 eml.attributeName

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.attributeName" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="attributeName"/>
    <constructor-arg name="xpath" value="//dataTable/attributeList/attribute/
↳attributeName/text()" />
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="false"/>
</bean>
```

### 14.3.31 eml.attributeLabel

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.attributeLabel" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="attributeLabel"/>
    <constructor-arg name="xpath" value="//dataTable/attributeList/attribute/
↳attributeLabel/text()" />
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="false"/>
</bean>
```

### 14.3.32 eml.attributeDescription

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.attributeDescription" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="attributeDescription"/>
    <constructor-arg name="xpath" value="//dataTable/attributeList/attribute/
↳attributeDefinition/text()" />
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="false"/>
</bean>
```

### 14.3.33 eml.attributeUnit

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.attributeUnit" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="attributeUnit"/>
    <constructor-arg name="xpath" value="//dataTable//standardUnit/text() | /
↳/dataTable//customUnit/text()" />
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="false"/>
</bean>
```

### 14.3.34 eml.attributeText

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.attributeText" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="true" p:root-ref="eml.attributeTextRoot">
    <constructor-arg name="name" value="attribute"/>
</bean>
```

### 14.3.35 eml.fileID

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.fileID" class="org.dataone.cn.indexer.parser.ResolveSolrField">
    <constructor-arg name="name" value="fileID"/>
</bean>
```

### 14.3.36 eml.fullText

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.fullText" class="org.dataone.cn.indexer.parser.AggregateSolrField">
    <property name="name" value="text"/>
    <property name="solrFields">
        <list>
            <ref bean="eml.text"/>
            <ref bean="eml.attributeName.noDupe"/>
            <ref bean="eml.attributeLabel.noDupe"/>
            <ref bean="eml.attributeDescription.noDupe"/>
            <ref bean="eml.attributeUnit.noDupe"/>
        </list>
    </property>
</bean>
```

### 14.3.37 eml.geohash1

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.geohash1" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="true" p:root-ref="eml.geohashRoot">
    <constructor-arg name="name" value="geohash_1"/>
    <property name="converter" ref="geohashConverter_1"/>
</bean>
```

### 14.3.38 eml.geohash2

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.geohash2" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="true" p:root-ref="eml.geohashRoot">
    <constructor-arg name="name" value="geohash_2"/>
    <property name="converter" ref="geohashConverter_2"/>
</bean>

```

### 14.3.39 eml.geohash3

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.geohash3" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="true" p:root-ref="eml.geohashRoot">
    <constructor-arg name="name" value="geohash_3"/>
    <property name="converter" ref="geohashConverter_3"/>
</bean>

```

### 14.3.40 eml.geohash4

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.geohash4" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="true" p:root-ref="eml.geohashRoot">
    <constructor-arg name="name" value="geohash_4"/>
    <property name="converter" ref="geohashConverter_4"/>
</bean>

```

### 14.3.41 eml.geohash5

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.geohash5" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="true" p:root-ref="eml.geohashRoot">
    <constructor-arg name="name" value="geohash_5"/>
    <property name="converter" ref="geohashConverter_5"/>
</bean>

```

### 14.3.42 eml.geohash6

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.geohash6" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="true" p:root-ref="eml.geohashRoot">
    <constructor-arg name="name" value="geohash_6"/>
    <property name="converter" ref="geohashConverter_6"/>
</bean>

```

### 14.3.43 eml.geohash7

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.geohash7" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="true" p:root-ref="eml.geohashRoot">
    <constructor-arg name="name" value="geohash_7"/>
    <property name="converter" ref="geohashConverter_7"/>
</bean>
```

### 14.3.44 eml.geohash8

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.geohash8" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="true" p:root-ref="eml.geohashRoot">
    <constructor-arg name="name" value="geohash_8"/>
    <property name="converter" ref="geohashConverter_8"/>
</bean>
```

### 14.3.45 eml.geohash9

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.geohash9" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="true" p:root-ref="eml.geohashRoot">
    <constructor-arg name="name" value="geohash_9"/>
    <property name="converter" ref="geohashConverter_9"/>
</bean>
```

### 14.3.46 eml.isService

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.isService" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="isService"/>
    <constructor-arg name="xpath" value="//software/implementation/
↳distribution/online/url"/>
</bean>
```

### 14.3.47 eml.serviceTitle

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.serviceTitle" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="serviceTitle"/>
    <constructor-arg name="xpath" value="//software/title//text() [normalize-
↳space() ]"/>
    <property name="combineNodes" value="true"/>
</bean>
```

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```
</bean>
  <property name="combineDelimiter" value=":"/>
```

### 14.3.48 eml.serviceDescription

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.serviceDescription" class="org.dataone.cn.indexer.parser.SolrField">
  <constructor-arg name="name" value="serviceDescription"/>
  <constructor-arg name="xpath" value="//software/abstract//
↳text() [normalize-space() ]"/>
  <property name="combineNodes" value="true"/>
  <property name="combineDelimiter" value=":"/>
</bean>
```

### 14.3.49 eml.serviceEndpoint

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.serviceEndpoint" class="org.dataone.cn.indexer.parser.SolrField">
  <constructor-arg name="name" value="serviceEndpoint"/>
  <constructor-arg name="xpath" value="//software/implementation/
↳distribution/online/url/text()"/>
  <property name="multivalue" value="true"/>
</bean>
```



---

Ecological Markup Language, v2.2.0

---

Describes parser configuration for: eml220Subprocessor

## 15.1 Format IDs Processed

This parser processes the following DataONE format IDs:

- Ecological Metadata Language, version 2.2.0  
formatId: <https://eml.ecoinformatics.org/eml-2.2.0>

A full list of DataONE format IDs can be found at <https://cn.dataone.org/cn/v2/formats/>

## 15.2 Fields

The following fields in the solr index are populated from values retrieved from this type of metadata document. Note that these are in addition to the information extracted from *System Metadata Parser*.

Solr Field	Multi	Dedupe	Source
<i>Index.abstract</i>	False	False	<p>//dataset/abstract/descendant::text ()</p> <p>Processor: MergeSolrField Configuration: <i>eml.abstract</i></p>

Continued on next page

Table 1 – continued from previous page

Solr Field	Multi	Duplicate	Source
<i>Index.keywords</i>	True	True	//dataset/keywordSet/keyword/text()  Processor: SolrField Configuration: <i>eml.keywords</i>
<i>Index.title</i>	False	False	//dataset/title/text()  Processor: SolrField Configuration: <i>eml.title</i>
<i>Index.project</i>	True	False	//dataset/project/title/text()  Processor: SolrField Configuration: <i>eml.project</i>
<i>Index.funding</i>	True	False	//dataset/project/funding/descendant::text()  Processor: SolrField Configuration: <i>eml.funding</i>
<i>Index.funderName</i>	True	False	//dataset/project/award/funderName/text()  Processor: SolrField Configuration: <i>eml.funderName</i>
<i>Index.funderIdentifier</i>	True	False	//dataset/project/award/funderIdentifier/text()  Processor: SolrField Configuration: <i>eml.funderIdentifier</i>
<i>Index.awardNumber</i>	True	False	//dataset/project/award/awardNumber/text()  Processor: SolrField Configuration: <i>eml.awardNumber</i>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.awardTitle</i>	True	False	<pre>//dataset/project/award/title/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.awardTitle</i></p>
<i>Index.southBoundCoord</i>	False	False	<pre>//dataset/coverage/geographicCoverage/ ↔boundingCoordinates/ southBoundingCoordinate/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.southBoundCoord</i></p> <p>Converter: SolrLatitudeConverter</p>
<i>Index.northBoundCoord</i>	False	False	<pre>//dataset/coverage/geographicCoverage/ ↔boundingCoordinates/ northBoundingCoordinate/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.northBoundCoord</i></p> <p>Converter: SolrLatitudeConverter</p>
<i>Index.westBoundCoord</i>	False	False	<pre>//dataset/coverage/geographicCoverage/ ↔boundingCoordinates/ westBoundingCoordinate/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.westBoundCoord</i></p> <p>Converter: SolrLongitudeConverter</p>
<i>Index.eastBoundCoord</i>	False	False	<pre>//dataset/coverage/geographicCoverage/ ↔boundingCoordinates/ eastBoundingCoordinate/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.eastBoundCoord</i></p> <p>Converter: SolrLongitudeConverter</p>

Continued on next page

Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.site</i>	True	False	<pre>//dataset/coverage/geographicCoverage/ ↪geographicDescription/ text ()</pre> <p>Processor: SolrField Configuration: <i>eml.site</i></p>
<i>Index.beginDate</i>	False	False	<pre>//dataset/coverage/temporalCoverage/ ↪rangeOfDates/beginDate/ calendarDate/text ()   //dataset/coverage/ temporalCoverage/singleDateTime/calendarDate/ ↪text ()</pre> <p>Processor: SolrField Configuration: <i>eml.beginDate</i></p> <p>Converter: SolrDateConverter</p>
<i>Index.endDate</i>	False	False	<pre>//dataset/coverage/temporalCoverage/ ↪rangeOfDates/endDate/ calendarDate/text ()   //dataset/coverage/ temporalCoverage/singleDateTime/calendarDate/ ↪text ()</pre> <p>Processor: SolrField Configuration: <i>eml.endDate</i></p> <p>Converter: SolrDateConverter</p>
<i>Index.pubDate</i>	False	False	<pre>//dataset/pubDate/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.pubDate</i></p> <p>Converter: SolrDateConverter</p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.author</i>	False		<pre>//dataset/creator/individualName -&gt;{   ↳{[givenName] [surName]   }}; givenName = givenName/text(); surName =   ↳surName/   text()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>eml.author</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.</p>
<i>Index.authorGivenName</i>	False	False	<pre>//dataset/creator[1]/individualName[1]/   ↳givenName/text()</pre> <p>Processor: <a href="#">SolrField</a>  Configuration: <i>eml.authorGivenName</i></p>
<i>Index.authorSurName</i>	False	False	<pre>//dataset/creator[1]/individualName[1]/surName/   ↳text()</pre> <p>Processor: <a href="#">SolrField</a>  Configuration: <i>eml.authorSurName</i></p>
<i>Index.authorGivenNameSort</i>	False	False	<pre>//dataset/creator[1]/individualName[1]/   ↳givenName/text()</pre> <p>Processor: <a href="#">SolrField</a>  Configuration: <i>eml.authorGivenNameSort</i></p>
<i>Index.authorSurNameSort</i>	False	False	<pre>//dataset/creator[1]/individualName[1]/surName/   ↳text()</pre> <p>Processor: <a href="#">SolrField</a>  Configuration: <i>eml.authorSurNameSort</i></p>
<i>Index.authorLastName</i>	True	False	<pre>//dataset/creator/individualName/surName/text()</pre> <p>Processor: <a href="#">SolrField</a>  Configuration: <i>eml.author_lname</i></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.investigator</i>	True	False	<pre>//dataset/creator/individualName/surName/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.investigator</i></p>
<i>Index.origin</i>	False		<pre>//dataset/creator -&gt;{   ↳{[individualName]  [organizationName] }}; organizationName = organizationName/text () individualName -&gt;{[givenName] [surName]}; givenName = givenName/text (); surName = surName/ text ()</pre> <p>Processor: CommonRootSolrField Configuration: <i>eml.origin</i> Notes: This bean uses a template populated from additional sources. See configuration for more details.</p>
<i>Index.contactOrganization</i>	True	True	<pre>//dataset/creator/organizationName/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.contactOrganization</i></p>
<i>Index.genus</i>	True	True	<pre>//taxonomicClassification/taxonRankValue[.. / ↳taxonRankName= "Genus" or ../taxonRankName="genus"]/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.genus</i></p>
<i>Index.species</i>	True	True	<pre>//taxonomicClassification/taxonRankValue[.. / ↳taxonRankName= "Species" or ../taxonRankName="species"]/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.species</i></p>

Continued on next page

Table 1 – continued from previous page

Solr Field	Multi	Duplicate	Source
<i>Index.kingdom</i>	True	True	<pre>//taxonomicClassification/taxonRankValue[../ ↳taxonRankName= "Kingdom" or ../taxonRankName="kingdom"]/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.kingdom</i></p>
<i>Index.order</i>	True	True	<pre>//taxonomicClassification/taxonRankValue[../ ↳taxonRankName= "Order" or ../taxonRankName="order"]/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.order</i></p>
<i>Index.phylum</i>	True	True	<pre>//taxonomicClassification/taxonRankValue[../ ↳taxonRankName= "Phylum" or ../taxonRankName="phylum"]/text ()   ↳// taxonomicClassification/taxonRankValue[../ taxonRankName="Division" or ../taxonRankName= "division"]/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.phylum</i></p>
<i>Index.family</i>	True	True	<pre>//taxonomicClassification/taxonRankValue[../ ↳taxonRankName= "Family" or ../taxonRankName="family"]/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.family</i></p>
<i>Index.class</i>	True	True	<pre>//taxonomicClassification/taxonRankValue[../ ↳taxonRankName= "Class" or ../taxonRankName="class"]/text ()</pre> <p>Processor: SolrField Configuration: <i>eml.class</i></p>

Continued on next page

Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.scientificName</i>	False		<pre>//taxonomicClassification[../taxonRankName= ↪"Genus" or ../ taxonRankName="genus"] -&gt;{[genus] [species]}; genus = ../taxonRankValue/text(); species = taxonRankValue/text()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>eml.scientificName</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.</p>
<i>Index.attributeName</i>	True	False	<pre>//dataTable/attributeList/attribute/ ↪attributeName/text()</pre> <p>Processor: <a href="#">SolrField</a>  Configuration: <i>eml.attributeName</i></p>
<i>Index.attributeLabel</i>	True	False	<pre>//dataTable/attributeList/attribute/ ↪attributeLabel/text()</pre> <p>Processor: <a href="#">SolrField</a>  Configuration: <i>eml.attributeLabel</i></p>
<i>Index.attributeDescription</i>	True	False	<pre>//dataTable/attributeList/attribute/ ↪attributeDefinition/ text()</pre> <p>Processor: <a href="#">SolrField</a>  Configuration: <i>eml.attributeDescription</i></p>
<i>Index.attributeUnit</i>	True	False	<pre>//dataTable//standardUnit/text()   //dataTable// ↪customUnit/ text()</pre> <p>Processor: <a href="#">SolrField</a>  Configuration: <i>eml.attributeUnit</i></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.attribute</i>	False		<pre>//dataTable/attributeList/attribute -&gt;{   &lt;code&gt;←{[attributeName] [ attributeLabel] [attributeDescription] [ attributeUnit]}}; attributeName = attributeName/ text(); attributeLabel = attributeLabel/text(); attributeDescription = attributeDefinition/   &lt;code&gt;←text(); attributeUnit = ../standardUnit/text()   ../ customUnit/text()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>eml.attributeText</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.</p>
<i>Index.fileID</i>			<p>Processor: <a href="#">ResolveSolrField</a>  Configuration: <i>eml.fileID</i>  Notes: SolrField which configures the resolve url for the document being processed.  Converter:</p>
<i>Index.text</i>			<p>Processor: <a href="#">AggregateSolrField</a>  Configuration: <i>eml.fullText</i>  Converter:</p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_1</i>	False		<pre>//dataset/coverage/geographicCoverage/ ↪boundingCoordinates -&gt;{{ [northBoundingCoordinate] [ southBoundingCoordinate]↵ ↪[eastBoundingCoordinate] [ westBoundingCoordinate]}};↵ ↪northBoundingCoordinate = northBoundingCoordinate/text(); southBoundingCoordinate =↵ ↪southBoundingCoordinate/ text(); eastBoundingCoordinate = eastBoundingCoordinate/text(); westBoundingCoordinate = westBoundingCoordinate/ text()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>eml.geohash1</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>
<i>Index.geohash_2</i>	False		<pre>//dataset/coverage/geographicCoverage/ ↪boundingCoordinates -&gt;{{ [northBoundingCoordinate] [ southBoundingCoordinate]↵ ↪[eastBoundingCoordinate] [ westBoundingCoordinate]}};↵ ↪northBoundingCoordinate = northBoundingCoordinate/text(); southBoundingCoordinate =↵ ↪southBoundingCoordinate/ text(); eastBoundingCoordinate = eastBoundingCoordinate/text(); westBoundingCoordinate = westBoundingCoordinate/ text()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>eml.geohash2</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_3</i>	False		<pre>//dataset/coverage/geographicCoverage/ ↪boundingCoordinates -&gt;{{ [northBoundingCoordinate] [ southBoundingCoordinate]↪ ↪[eastBoundingCoordinate] [ westBoundingCoordinate]}};↪ ↪northBoundingCoordinate = northBoundingCoordinate/text(); southBoundingCoordinate =↪ ↪southBoundingCoordinate/ text(); eastBoundingCoordinate = eastBoundingCoordinate/text(); westBoundingCoordinate = westBoundingCoordinate/ text()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>eml.geohash3</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>
<i>Index.geohash_4</i>	False		<pre>//dataset/coverage/geographicCoverage/ ↪boundingCoordinates -&gt;{{ [northBoundingCoordinate] [ southBoundingCoordinate]↪ ↪[eastBoundingCoordinate] [ westBoundingCoordinate]}};↪ ↪northBoundingCoordinate = northBoundingCoordinate/text(); southBoundingCoordinate =↪ ↪southBoundingCoordinate/ text(); eastBoundingCoordinate = eastBoundingCoordinate/text(); westBoundingCoordinate = westBoundingCoordinate/ text()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>eml.geohash4</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_5</i>	False		<pre>//dataset/coverage/geographicCoverage/ ↪boundingCoordinates -&gt;{{ [northBoundingCoordinate] [ southBoundingCoordinate]↵ ↪[eastBoundingCoordinate] [ westBoundingCoordinate]}};↵ ↪northBoundingCoordinate = northBoundingCoordinate/text(); southBoundingCoordinate =↵ ↪southBoundingCoordinate/ text(); eastBoundingCoordinate = eastBoundingCoordinate/text(); westBoundingCoordinate = westBoundingCoordinate/ text()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>eml.geohash5</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>
<i>Index.geohash_6</i>	False		<pre>//dataset/coverage/geographicCoverage/ ↪boundingCoordinates -&gt;{{ [northBoundingCoordinate] [ southBoundingCoordinate]↵ ↪[eastBoundingCoordinate] [ westBoundingCoordinate]}};↵ ↪northBoundingCoordinate = northBoundingCoordinate/text(); southBoundingCoordinate =↵ ↪southBoundingCoordinate/ text(); eastBoundingCoordinate = eastBoundingCoordinate/text(); westBoundingCoordinate = westBoundingCoordinate/ text()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>eml.geohash6</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_7</i>	False		<pre>//dataset/coverage/geographicCoverage/ ↪boundingCoordinates -&gt;{{ [northBoundingCoordinate] [ southBoundingCoordinate]↵ ↪[eastBoundingCoordinate] [ westBoundingCoordinate]}};↵ ↪northBoundingCoordinate = northBoundingCoordinate/text (); southBoundingCoordinate =↵ ↪southBoundingCoordinate/ text (); eastBoundingCoordinate = eastBoundingCoordinate/text (); westBoundingCoordinate = westBoundingCoordinate/ text ()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>eml.geohash7</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>
<i>Index.geohash_8</i>	False		<pre>//dataset/coverage/geographicCoverage/ ↪boundingCoordinates -&gt;{{ [northBoundingCoordinate] [ southBoundingCoordinate]↵ ↪[eastBoundingCoordinate] [ westBoundingCoordinate]}};↵ ↪northBoundingCoordinate = northBoundingCoordinate/text (); southBoundingCoordinate =↵ ↪southBoundingCoordinate/ text (); eastBoundingCoordinate = eastBoundingCoordinate/text (); westBoundingCoordinate = westBoundingCoordinate/ text ()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>eml.geohash8</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_9</i>	False		<pre>//dataset/coverage/geographicCoverage/ ↪boundingCoordinates -&gt;{{ [northBoundingCoordinate] [ southBoundingCoordinate] ↪ ↪ [eastBoundingCoordinate] [ westBoundingCoordinate] }}; ↪ ↪northBoundingCoordinate = northBoundingCoordinate/text (); southBoundingCoordinate = ↪ ↪southBoundingCoordinate/ text (); eastBoundingCoordinate = eastBoundingCoordinate/text (); westBoundingCoordinate = westBoundingCoordinate/ text ()</pre> <p>Processor: <code>CommonRootSolrField</code>  Configuration: <code>eml.geohash9</code>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <code>GeohashConverter</code></p>
<i>Index.isService</i>	False	False	<pre>boolean(//software/implementation/distribution/ ↪online/url)</pre> <p>Processor: <code>SolrField</code>  Configuration: <code>eml.isService</code></p>
<i>Index.serviceTitle</i>	False	False	<pre>//software/title//text () [normalize-space ()]</pre> <p>Processor: <code>SolrField</code>  Configuration: <code>eml.serviceTitle</code></p>
<i>Index.serviceDescription</i>	False	False	<pre>//software/abstract//text () [normalize-space ()]</pre> <p>Processor: <code>SolrField</code>  Configuration: <code>eml.serviceDescription</code></p>
<i>Index.serviceEndpoint</i>	True	False	<pre>//software/implementation/distribution/online/ ↪url/text ()</pre> <p>Processor: <code>SolrField</code>  Configuration: <code>eml.serviceEndpoint</code></p>

## 15.3 Bean Configurations

### 15.3.1 eml.abstract

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.abstract" class="org.dataone.cn.indexer.parser.MergeSolrField">
  <constructor-arg name="name" value="abstract"/>
  <constructor-arg name="xpath" value="//dataset/abstract/descendant::text()"/>
  <constructor-arg name="delimiter" value=""/>
  <property name="multivalue" value="false"/>
  <property name="dedupe" value="false"/>
</bean>
```

### 15.3.2 eml.keywords

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.keywords" class="org.dataone.cn.indexer.parser.SolrField">
  <constructor-arg name="name" value="keywords"/>
  <constructor-arg name="xpath" value="//dataset/keywordSet/keyword/text()
↳"/>
  <property name="multivalue" value="true"/>
  <property name="dedupe" value="true"/>
</bean>
```

### 15.3.3 eml.title

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.title" class="org.dataone.cn.indexer.parser.SolrField">
  <constructor-arg name="name" value="title"/>
  <constructor-arg name="xpath" value="//dataset/title/text()"/>
  <property name="multivalue" value="false"/>
</bean>
```

### 15.3.4 eml.project

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.project" class="org.dataone.cn.indexer.parser.SolrField">
  <constructor-arg name="name" value="project"/>
  <constructor-arg name="xpath" value="//dataset/project/title/text()"/>
  <property name="multivalue" value="true"/>
</bean>
```

### 15.3.5 eml.funding

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.funding" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="funding"/>
    <constructor-arg name="xpath" value="//dataset/project/funding/
↳descendant::text()"/>
    <property name="multivalue" value="true"/>
</bean>
```

### 15.3.6 eml.funderName

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.funderName" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="funderName"/>
    <constructor-arg name="xpath" value="//dataset/project/award/funderName/
↳text()"/>
    <property name="multivalue" value="true"/>
</bean>
```

### 15.3.7 eml.funderIdentifier

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.funderIdentifier" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="funderIdentifier"/>
    <constructor-arg name="xpath" value="//dataset/project/award/
↳funderIdentifier/text()"/>
    <property name="multivalue" value="true"/>
</bean>
```

### 15.3.8 eml.awardNumber

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.awardNumber" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="awardNumber"/>
    <constructor-arg name="xpath" value="//dataset/project/award/awardNumber/
↳text()"/>
    <property name="multivalue" value="true"/>
</bean>
```

### 15.3.9 eml.awardTitle

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.awardTitle" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="awardTitle"/>
    <constructor-arg name="xpath" value="//dataset/project/award/title/text ()
↳"/>
    <property name="multivalue" value="true"/>
</bean>

```

### 15.3.10 eml.southBoundCoord

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.southBoundCoord" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="southBoundCoord"/>
    <constructor-arg name="xpath" value="//dataset/coverage/
↳geographicCoverage/boundingCoordinates/southBoundingCoordinate/text () "/>
    <property name="multivalue" value="false"/>
    <property name="converter" ref="solrLatitudeConverter"/>
</bean>

```

### 15.3.11 eml.northBoundCoord

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.northBoundCoord" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="northBoundCoord"/>
    <constructor-arg name="xpath" value="//dataset/coverage/
↳geographicCoverage/boundingCoordinates/northBoundingCoordinate/text () "/>
    <property name="multivalue" value="false"/>
    <property name="converter" ref="solrLatitudeConverter"/>
</bean>

```

### 15.3.12 eml.westBoundCoord

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.westBoundCoord" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="westBoundCoord"/>
    <constructor-arg name="xpath" value="//dataset/coverage/
↳geographicCoverage/boundingCoordinates/westBoundingCoordinate/text () "/>
    <property name="multivalue" value="false"/>
    <property name="converter" ref="solrLongitudeConverter"/>
</bean>

```

### 15.3.13 eml.eastBoundCoord

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.eastBoundCoord" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="eastBoundCoord"/>
    <constructor-arg name="xpath" value="//dataset/coverage/
↳geographicCoverage/boundingCoordinates/eastBoundingCoordinate/text () "/>
    <property name="multivalue" value="false"/>
    <property name="converter" ref="solrLongitudeConverter"/>
</bean>

```

### 15.3.14 eml.site

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.site" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="site"/>
    <constructor-arg name="xpath" value="//dataset/coverage/
↳geographicCoverage/geographicDescription/text () "/>
    <property name="multivalue" value="true"/>
</bean>

```

### 15.3.15 eml.beginDate

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.beginDate" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="beginDate"/>
    <constructor-arg name="xpath" value="//dataset/coverage/temporalCoverage/
↳rangeOfDates/beginDate/calendarDate/text () | //dataset/coverage/temporalCoverage/
↳singleDateTime/calendarDate/text () "/>
    <property name="multivalue" value="false"/>
    <property name="converter" ref="dateConverter"/>
</bean>

```

### 15.3.16 eml.endDate

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.endDate" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="endDate"/>
    <constructor-arg name="xpath" value="//dataset/coverage/temporalCoverage/
↳rangeOfDates/endDate/calendarDate/text () | //dataset/coverage/temporalCoverage/
↳singleDateTime/calendarDate/text () "/>
    <property name="multivalue" value="false"/>
    <property name="converter" ref="dateConverter"/>
</bean>

```



### 15.3.17 eml.pubDate

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.pubDate" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="pubDate"/>
    <constructor-arg name="xpath" value="//dataset/pubDate/text ()"/>
    <property name="multivalue" value="false"/>
    <property name="converter" ref="dateConverter"/>
</bean>
```

### 15.3.18 eml.author

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.author" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="false" p:root-ref="eml.authorNameRoot">
    <constructor-arg name="name" value="author"/>
</bean>
```

### 15.3.19 eml.authorGivenName

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.authorGivenName" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="authorGivenName"/>
    <constructor-arg name="xpath" value="//dataset/creator[1]/
↳individualName[1]/givenName/text ()"/>
</bean>
```

### 15.3.20 eml.authorSurName

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.authorSurName" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="authorSurName"/>
    <constructor-arg name="xpath" value="//dataset/creator[1]/
↳individualName[1]/surName/text ()"/>
</bean>
```

### 15.3.21 eml.authorGivenNameSort

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.authorGivenNameSort" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="authorGivenNameSort"/>
    <constructor-arg name="xpath" value="//dataset/creator[1]/
↳individualName[1]/givenName/text ()"/>
</bean>
```

### 15.3.22 eml.authorSurNameSort

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.authorSurNameSort" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="authorSurNameSort"/>
    <constructor-arg name="xpath" value="//dataset/creator[1]/
↳individualName[1]/surName/text()" />
</bean>
```

### 15.3.23 eml.author\_lname

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.author_lname" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="authorLastName"/>
    <constructor-arg name="xpath" value="//dataset/creator/individualName/
↳surName/text()" />
    <property name="multivalue" value="true"/>
</bean>
```

### 15.3.24 eml.investigator

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.investigator" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="investigator"/>
    <constructor-arg name="xpath" value="//dataset/creator/individualName/
↳surName/text()" />
    <property name="multivalue" value="true"/>
</bean>
```

### 15.3.25 eml.origin

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.origin" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="true" p:root-ref="eml.originRoot">
    <constructor-arg name="name" value="origin"/>
</bean>
```

### 15.3.26 eml.contactOrganization

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.contactOrganization" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="contactOrganization"/>
    <constructor-arg name="xpath" value="//dataset/creator/organizationName/
↳text()" />
```

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```

    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>

```

### 15.3.27 eml.genus

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.genus" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="genus"/>
    <constructor-arg name="xpath" value="//taxonomicClassification/
↳taxonRankValue[../taxonRankName=&quot;Genus&quot; or ../taxonRankName=&quot;genus&
↳quot;]/text()"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>

```

### 15.3.28 eml.species

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.species" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="species"/>
    <constructor-arg name="xpath" value="//taxonomicClassification/
↳taxonRankValue[../taxonRankName=&quot;Species&quot; or ../taxonRankName=&quot;
↳species&quot;]/text()"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>

```

### 15.3.29 eml.kingdom

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.kingdom" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="kingdom"/>
    <constructor-arg name="xpath" value="//taxonomicClassification/
↳taxonRankValue[../taxonRankName=&quot;Kingdom&quot; or ../taxonRankName=&quot;
↳kingdom&quot;]/text()"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>

```

### 15.3.30 eml.order

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.order" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="order"/>

```

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```

        <constructor-arg name="xpath" value="//taxonomicClassification/
↳ taxonRankValue[../taxonRankName=&quot;Order&quot; or ../taxonRankName=&quot;order&
↳ quot;]/text () "/>
        <property name="multivalue" value="true"/>
        <property name="dedupe" value="true"/>
    </bean>

```

### 15.3.31 eml.phylum

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳ springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳ id="eml.phylum" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="phylum"/>
    <constructor-arg name="xpath" value="//taxonomicClassification/
↳ taxonRankValue[../taxonRankName=&quot;Phylum&quot; or ../taxonRankName=&quot;phylum&
↳ quot;]/text () | //taxonomicClassification/taxonRankValue[../taxonRankName=&quot;
↳ Division&quot; or ../taxonRankName=&quot;division&quot;]/text () "/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>

```

### 15.3.32 eml.family

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳ springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳ id="eml.family" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="family"/>
    <constructor-arg name="xpath" value="//taxonomicClassification/
↳ taxonRankValue[../taxonRankName=&quot;Family&quot; or ../taxonRankName=&quot;family&
↳ quot;]/text () "/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>

```

### 15.3.33 eml.class

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳ springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳ id="eml.class" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="class"/>
    <constructor-arg name="xpath" value="//taxonomicClassification/
↳ taxonRankValue[../taxonRankName=&quot;Class&quot; or ../taxonRankName=&quot;class&
↳ quot;]/text () "/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>

```

### 15.3.34 eml.scientificName

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.scientificName" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="true" p:root-ref="eml.scientificNameRoot">
    <constructor-arg name="name" value="scientificName"/>
</bean>
```

### 15.3.35 eml.attributeName

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.attributeName" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="attributeName"/>
    <constructor-arg name="xpath" value="//dataTable/attributeList/attribute/
↳attributeName/text()"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="false"/>
</bean>
```

### 15.3.36 eml.attributeLabel

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.attributeLabel" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="attributeLabel"/>
    <constructor-arg name="xpath" value="//dataTable/attributeList/attribute/
↳attributeLabel/text()"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="false"/>
</bean>
```

### 15.3.37 eml.attributeDescription

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.attributeDescription" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="attributeDescription"/>
    <constructor-arg name="xpath" value="//dataTable/attributeList/attribute/
↳attributeDefinition/text()"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="false"/>
</bean>
```

### 15.3.38 eml.attributeUnit

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.attributeUnit" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="attributeUnit"/>
    <constructor-arg name="xpath" value="//dataTable//standardUnit/text() | /
↳/dataTable//customUnit/text()"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="false"/>
</bean>

```

### 15.3.39 eml.attributeText

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.attributeText" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="true" p:root-ref="eml.attributeTextRoot">
    <constructor-arg name="name" value="attribute"/>
</bean>

```

### 15.3.40 eml.fileID

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.fileID" class="org.dataone.cn.indexer.parser.ResolveSolrField">
    <constructor-arg name="name" value="fileID"/>
</bean>

```

### 15.3.41 eml.fullText

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.fullText" class="org.dataone.cn.indexer.parser.AggregateSolrField">
    <property name="name" value="text"/>
    <property name="solrFields">
        <list>
            <ref bean="eml.text"/>
            <ref bean="eml.attributeName.noDupe"/>
            <ref bean="eml.attributeLabel.noDupe"/>
            <ref bean="eml.attributeDescription.noDupe"/>
            <ref bean="eml.attributeUnit.noDupe"/>
        </list>
    </property>
</bean>

```

### 15.3.42 eml.geohash1

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.geohash1" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="true" p:root-ref="eml.geohashRoot">
    <constructor-arg name="name" value="geohash_1"/>
    <property name="converter" ref="geohashConverter_1"/>
</bean>

```

### 15.3.43 eml.geohash2

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.geohash2" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="true" p:root-ref="eml.geohashRoot">
    <constructor-arg name="name" value="geohash_2"/>
    <property name="converter" ref="geohashConverter_2"/>
</bean>

```

### 15.3.44 eml.geohash3

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.geohash3" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="true" p:root-ref="eml.geohashRoot">
    <constructor-arg name="name" value="geohash_3"/>
    <property name="converter" ref="geohashConverter_3"/>
</bean>

```

### 15.3.45 eml.geohash4

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.geohash4" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="true" p:root-ref="eml.geohashRoot">
    <constructor-arg name="name" value="geohash_4"/>
    <property name="converter" ref="geohashConverter_4"/>
</bean>

```

### 15.3.46 eml.geohash5

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.geohash5" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="true" p:root-ref="eml.geohashRoot">
    <constructor-arg name="name" value="geohash_5"/>
    <property name="converter" ref="geohashConverter_5"/>
</bean>

```

### 15.3.47 eml.geohash6

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.geohash6" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalued="true" p:root-ref="eml.geohashRoot">
    <constructor-arg name="name" value="geohash_6"/>
    <property name="converter" ref="geohashConverter_6"/>
</bean>
```

### 15.3.48 eml.geohash7

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.geohash7" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalued="true" p:root-ref="eml.geohashRoot">
    <constructor-arg name="name" value="geohash_7"/>
    <property name="converter" ref="geohashConverter_7"/>
</bean>
```

### 15.3.49 eml.geohash8

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.geohash8" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalued="true" p:root-ref="eml.geohashRoot">
    <constructor-arg name="name" value="geohash_8"/>
    <property name="converter" ref="geohashConverter_8"/>
</bean>
```

### 15.3.50 eml.geohash9

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.geohash9" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalued="true" p:root-ref="eml.geohashRoot">
    <constructor-arg name="name" value="geohash_9"/>
    <property name="converter" ref="geohashConverter_9"/>
</bean>
```

### 15.3.51 eml.isService

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.isService" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="isService"/>
    <constructor-arg name="xpath" value="boolean(//software/implementation/
↳distribution/online/url)"/>
</bean>
```



### 15.3.52 eml.serviceTitle

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.serviceTitle" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="serviceTitle"/>
    <constructor-arg name="xpath" value="//software/title//text() [normalize-
↳space() ]"/>
    <property name="combineNodes" value="true"/>
    <property name="combineDelimiter" value=":"/>
</bean>
```

### 15.3.53 eml.serviceDescription

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.serviceDescription" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="serviceDescription"/>
    <constructor-arg name="xpath" value="//software/abstract//
↳text() [normalize-space() ]"/>
    <property name="combineNodes" value="true"/>
    <property name="combineDelimiter" value=":"/>
</bean>
```

### 15.3.54 eml.serviceEndpoint

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="eml.serviceEndpoint" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="serviceEndpoint"/>
    <constructor-arg name="xpath" value="//software/implementation/
↳distribution/online/url/text()"/>
    <property name="multivalue" value="true"/>
</bean>
```



---

## Ecological Markup Language Annotations

---

Describes parser configuration for: `emlAnnotationSubprocessor`

### 16.1 Format IDs Processed

This parser processes the following DataONE format IDs:

- Ecological Metadata Language, version 2.2.0  
formatId: `https://eml.ecoinformatics.org/eml-2.2.0`

A full list of DataONE format IDs can be found at <https://cn.dataone.org/cn/v2/formats/>

### 16.2 Fields

The following fields in the solr index are populated from values retrieved from this type of metadata document. Note that these are in addition to the information extracted from *System Metadata Parser*.

Solr Field	Multi	Dedupe	Source
<code>Index.sem_annotation</code>	False	False	<pre>//annotation/valueURI/text ()</pre> <p>Processor: <code>SolrField</code> Configuration: <code>emlAnnotationSubprocessor.bean0</code></p>

## 16.3 Bean Configurations

### 16.3.1 emlAnnotationSubprocessor.bean0

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" xmlns:p="http://www.springframework.org/schema/p"
↳class="org.dataone.cn.indexer.parser.SolrField" id="emlAnnotationSubprocessor.bean0
↳">
    <constructor-arg name="name" value="sem_
↳annotation"/>
    <constructor-arg name="xpath" value="//
↳annotation/valueURI/text()"/>
    <constructor-arg name="multivalue" value="true"/>
</bean>
```

Describes parser configuration for: fgdcEsri80Subprocessor

### 17.1 Format IDs Processed

This parser processes the following DataONE format IDs:

- ESRI Profile of the Content Standard for Digital Geospatial Metadata, March 2003  
formatId: <http://www.esri.com/metadata/esriprof80.dtd>

A full list of DataONE format IDs can be found at <https://cn.dataone.org/cn/v2/formats/>

### 17.2 Fields

The following fields in the solr index are populated from values retrieved from this type of metadata document. Note that these are in addition to the information extracted from *System Metadata Parser*.

Solr Field	Multi	Dedupe	Source
<i>Index.abstract</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/descript/ ↳abstract/ descendant::text ()</pre> <p>Processor: MergeSolrField Configuration: <i>fgdc.abstract</i></p>

Continued on next page

Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.beginDate</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/timeperd/ ↪timeinfo/ rngdates/begdate/text ()</pre> <p>Processor: SolrField  Configuration: <i>fgdc.beginDate</i>  Converter: FgdcDateConverter</p>
<i>Index.contactOrganization</i>	True	True	<pre>/*[local-name() = 'metadata']/distinfo/distrib/ ↪cntinfo/ cntperp/cntorg/text ()   /*[local-name() = 'metadata']/distinfo/distrib/cntinfo/cntorgp/ ↪cntorg/ text ()</pre> <p>Processor: SolrField  Configuration: <i>fgdc.contactOrganization</i></p>
<i>Index.eastBoundCoord</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/spdom/ ↪bounding/eastbc/ text ()</pre> <p>Processor: SolrField  Configuration: <i>fgdc.eastBoundCoord</i>  Converter: SolrLongitudeConverter</p>
<i>Index.westBoundCoord</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/spdom/ ↪bounding/westbc/ text ()</pre> <p>Processor: SolrField  Configuration: <i>fgdc.westBoundCoord</i>  Converter: SolrLongitudeConverter</p>

Continued on next page

Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.northBoundCoord</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/spdom/ ↳bounding/northbc/ text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.northBoundCoord</i> Converter: SolrLongitudeConverter</p>
<i>Index.southBoundCoord</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/spdom/ ↳bounding/southbc/ text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.southBoundCoord</i> Converter: SolrLongitudeConverter</p>
<i>Index.edition</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/citeinfo/ ↳edition/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.edition</i></p>
<i>Index.endDate</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/timeperd/ ↳timeinfo/ rngdates/enddate/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.endDate</i> Converter: FgdcDateConverter</p>
<i>Index.gcmdKeyword</i>	True	False	<pre>/*[local-name() = 'metadata']/idinfo/keywords/ ↳theme[themekt= 'GCMD Science Keywords']/themekey/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.gcmdKeyword</i></p>

Continued on next page

Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.keywords</i>	True	True	<pre>/*[local-name() = 'metadata']/idinfo/keywords/ ↳theme/ themekey/text()   /*[local-name() = 'metadata']/ idinfo/keywords/place/placekey/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.keywords</i></p>
<i>Index.geoform</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/citation/ ↳citeinfo/ geoform/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.geoform</i></p>
<i>Index.genus</i>	True	False	<pre>//taxoncl/taxonrv[../taxonrn="Genus"]/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.genus</i></p>
<i>Index.kingdom</i>	True	False	<pre>//taxoncl/taxonrv[../taxonrn="Kingdom"]/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.kingdom</i></p>
<i>Index.order</i>	True	False	<pre>//taxoncl/taxonrv[../taxonrn="Order"]/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.order</i></p>
<i>Index.phylum</i>	True	False	<pre>//taxoncl/taxonrv[../taxonrn="Phylum"]/text()  ↳ ↳//taxoncl/ taxonrv[../taxonrn="Division"]/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.phylum</i></p>

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Table 1 – continued from previous page

Solr Field	Multi	Duplicate Source	Source
<i>Index.species</i>	True	False	<pre>//taxoncl/taxonrv[../taxonrn="Species"]/text ()</pre> <p>Processor: SolrField Configuration: <i>fgdc.species</i></p>
<i>Index.family</i>	True	False	<pre>//taxoncl/taxonrv[../taxonrn="Family"]/text ()</pre> <p>Processor: SolrField Configuration: <i>fgdc.family</i></p>
<i>Index.class</i>	True	False	<pre>//taxoncl/taxonrv[../taxonrn="Class"]/text ()</pre> <p>Processor: SolrField Configuration: <i>fgdc.class</i></p>
<i>Index.origin</i>	True	False	<pre>/*[local-name() = 'metadata']/idinfo/citation/ ↳citeinfo/ origin/text ()</pre> <p>Processor: SolrField Configuration: <i>fgdc.origin</i></p>
<i>Index.scientificName</i>	False		<pre>//taxoncl/taxonrv[../taxonrn="Genus"] -&gt;{ ↳{[genus] [species] }}; genus = ../taxonrv/text (); species = ↳taxonrv/ text ()</pre> <p>Processor: CommonRootSolrField Configuration: <i>fgdc.scientificName</i> Notes: This bean uses a template populated from additional sources. See configuration for more details.</p>
<i>Index.placeKey</i>	True	False	<pre>/*[local-name() = 'metadata']/idinfo/keywords/ ↳place/ placekey/text ()</pre> <p>Processor: SolrField Configuration: <i>fgdc.placeKey</i></p>

Continued on next page

Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.pubDate</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/citation/ ↪citeinfo/ pubdate/text()</pre> <p>Processor: SolrField  Configuration: <i>fgdc.pubDate</i>  Converter: FgdcDateConverter</p>
<i>Index.purpose</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/descript/ ↪purpose/ descendant::text()</pre> <p>Processor: MergeSolrField  Configuration: <i>fgdc.purpose</i></p>
<i>Index.title</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/citation/ ↪citeinfo/ title/text()</pre> <p>Processor: SolrField  Configuration: <i>fgdc.title</i></p>
<i>Index.webUrl</i>	True	False	<pre>/*[local-name() = 'metadata']/idinfo/citation/ ↪citeinfo/ onlink/text()</pre> <p>Processor: SolrField  Configuration: <i>fgdc.web_url</i></p>
<i>Index.fileID</i>			<p>Processor: ResolveSolrField  Configuration: <i>fgdc.fileID</i>  Notes: SolrField which configures the resolve url for the document being processed.  Converter:</p>
<i>Index.text</i>			<p>Processor: AggregateSolrField  Configuration: <i>fgdc.fullText</i>  Converter:</p>

Continued on next page

Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.presentationCat</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/citation/ ↪citeinfo/ geoform/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.presentationCat</i></p>
<i>Index.author</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/citation/ ↪citeinfo/ origin/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.author</i></p>
<i>Index.authorSurName</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/citation/ ↪citeinfo/ origin[1]/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.authorSurName</i></p>
<i>Index.authorSurNameSort</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/citation/ ↪citeinfo/ origin[1]/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.authorSurNameSort</i></p>
<i>Index.investigator</i>	True	False	<pre>/*[local-name() = 'metadata']/idinfo/citation/ ↪citeinfo/ origin/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.investigator</i></p>
<i>Index.site</i>	True	False	<pre>/*[local-name() = 'metadata']/idinfo/spdom/ ↪descgeog/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.site</i></p>

Continued on next page

Table 1 – continued from previous page

Solr Field	Multi	Duplicate Source	Source
<i>Index.attributeName</i>	True	False	<pre>//attr/attrlabl/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.attributeName</i></p>
<i>Index.attributeLabel</i>	True	False	<pre>//attr/attalias/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.attributeLabel</i></p>
<i>Index.attributeDescription</i>	True	False	<pre>//attr/attrdef/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.attributeDescription</i></p>
<i>Index.attributeUnit</i>	True	False	<pre>//attr/attrdomv//attrunit/text()   //attr// ↪attrdomv//edomv/ text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.attributeUnit</i></p>
<i>Index.attribute</i>	False		<pre>//attr -&gt;{{[attributeName] [attributeLabel] [ attributeDescription] [attributeUnit]}}; attributeName = attrlabl/text(); attributeLabel_ ↪= attalias/text(); attributeDescription = attrdef/ text(); attributeUnit = attrdomv//attrunit/ ↪text()   .//attrdomv//edomv/text()</pre> <p>Processor: CommonRootSolrField Configuration: <i>fgdc.attributeText</i> Notes: This bean uses a template populated from additional sources. See configuration for more details.</p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_1</i>	False		<pre> /*[local-name() = 'metadata']/idinfo/spdom/ ↪bounding -&gt;{[ northBoundingCoordinate] ↪[southBoundingCoordinate] [ eastBoundingCoordinate] ↪[westBoundingCoordinate]}}; northBoundingCoordinate = northbc/text(); southBoundingCoordinate = southbc/text(); eastBoundingCoordinate = eastbc/text(); westBoundingCoordinate = westbc/text()  Processor: <a href="#">CommonRootSolrField</a> Configuration: <i>fgdc.geohash1</i> Notes: This bean uses a template populated from additional sources. See configuration for more details. Converter: <a href="#">GeohashConverter</a> </pre>
<i>Index.geohash_2</i>	False		<pre> /*[local-name() = 'metadata']/idinfo/spdom/ ↪bounding -&gt;{[ northBoundingCoordinate] ↪[southBoundingCoordinate] [ eastBoundingCoordinate] ↪[westBoundingCoordinate]}}; northBoundingCoordinate = northbc/text(); southBoundingCoordinate = southbc/text(); eastBoundingCoordinate = eastbc/text(); westBoundingCoordinate = westbc/text()  Processor: <a href="#">CommonRootSolrField</a> Configuration: <i>fgdc.geohash2</i> Notes: This bean uses a template populated from additional sources. See configuration for more details. Converter: <a href="#">GeohashConverter</a> </pre>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_3</i>	False		<pre> /*[local-name() = 'metadata']/idinfo/spdom/ ↪bounding -&gt;{[ northBoundingCoordinate]_ ↪[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↪[westBoundingCoordinate]}}; northBoundingCoordinate = northbc/text(); southBoundingCoordinate = southbc/text(); eastBoundingCoordinate = eastbc/text(); westBoundingCoordinate = westbc/text()  Processor: CommonRootSolrField Configuration: fgdc.geohash3 Notes: This bean uses a template populated from additional sources. See configuration for more details. Converter: GeohashConverter </pre>
<i>Index.geohash_4</i>	False		<pre> /*[local-name() = 'metadata']/idinfo/spdom/ ↪bounding -&gt;{[ northBoundingCoordinate]_ ↪[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↪[westBoundingCoordinate]}}; northBoundingCoordinate = northbc/text(); southBoundingCoordinate = southbc/text(); eastBoundingCoordinate = eastbc/text(); westBoundingCoordinate = westbc/text()  Processor: CommonRootSolrField Configuration: fgdc.geohash4 Notes: This bean uses a template populated from additional sources. See configuration for more details. Converter: GeohashConverter </pre>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_5</i>	False		<pre> /*[local-name() = 'metadata']/idinfo/spdom/ ↪bounding -&gt;{[ northBoundingCoordinate]_ ↪[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↪[westBoundingCoordinate]}}; northBoundingCoordinate = northbc/text(); southBoundingCoordinate = southbc/text(); eastBoundingCoordinate = eastbc/text(); westBoundingCoordinate = westbc/text()  Processor: <a href="#">CommonRootSolrField</a> Configuration: <a href="#">fgdc.geohash5</a> Notes: This bean uses a template populated from additional sources. See configuration for more details. Converter: <a href="#">GeohashConverter</a> </pre>
<i>Index.geohash_6</i>	False		<pre> /*[local-name() = 'metadata']/idinfo/spdom/ ↪bounding -&gt;{[ northBoundingCoordinate]_ ↪[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↪[westBoundingCoordinate]}}; northBoundingCoordinate = northbc/text(); southBoundingCoordinate = southbc/text(); eastBoundingCoordinate = eastbc/text(); westBoundingCoordinate = westbc/text()  Processor: <a href="#">CommonRootSolrField</a> Configuration: <a href="#">fgdc.geohash6</a> Notes: This bean uses a template populated from additional sources. See configuration for more details. Converter: <a href="#">GeohashConverter</a> </pre>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_7</i>	False		<pre> /*[local-name() = 'metadata']/idinfo/spdom/ ↪bounding -&gt;{[ northBoundingCoordinate]_ ↪[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↪[westBoundingCoordinate]}}; northBoundingCoordinate = northbc/text(); southBoundingCoordinate = southbc/text(); eastBoundingCoordinate = eastbc/text(); westBoundingCoordinate = westbc/text()  Processor: CommonRootSolrField Configuration: fgdc.geohash7 Notes: This bean uses a template populated from additional sources. See configuration for more details. Converter: GeohashConverter </pre>
<i>Index.geohash_8</i>	False		<pre> /*[local-name() = 'metadata']/idinfo/spdom/ ↪bounding -&gt;{[ northBoundingCoordinate]_ ↪[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↪[westBoundingCoordinate]}}; northBoundingCoordinate = northbc/text(); southBoundingCoordinate = southbc/text(); eastBoundingCoordinate = eastbc/text(); westBoundingCoordinate = westbc/text()  Processor: CommonRootSolrField Configuration: fgdc.geohash8 Notes: This bean uses a template populated from additional sources. See configuration for more details. Converter: GeohashConverter </pre>

Continued on next page



Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_9</i>	False		<pre> /*[local-name() = 'metadata']/idinfo/spdom/ ↳bounding -&gt;{[[ northBoundingCoordinate]↳ ↳[southBoundingCoordinate] [ eastBoundingCoordinate]↳ ↳[westBoundingCoordinate]}}; northBoundingCoordinate = northbc/text(); southBoundingCoordinate = southbc/text(); eastBoundingCoordinate = eastbc/text(); westBoundingCoordinate = westbc/text()  Processor: CommonRootSolrField Configuration: fgdc.geohash9 Notes: This bean uses a template populated from additional sources. See configuration for more details. Converter: GeohashConverter </pre>

## 17.3 Bean Configurations

### 17.3.1 fgdc.abstract

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.abstract" class="org.dataone.cn.indexer.parser.MergeSolrField">
  <constructor-arg name="name" value="abstract"/>
  <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/idinfo/
↳descript/abstract/descendant::text()"/>
  <constructor-arg name="delimiter" value=" "/>
  <property name="multivalue" value="false"/>
  <property name="dedupe" value="false"/>
</bean>

```

### 17.3.2 fgdc.beginDate

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.beginDate" class="org.dataone.cn.indexer.parser.SolrField">
  <constructor-arg name="name" value="beginDate"/>
  <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/timeperd/timeinfo/rngdates/begdate/text()"/>
  <property name="multivalue" value="false"/>
  <property name="converter" ref="fgdcDateConverter"/>
</bean>

```

### 17.3.3 fgdc.contactOrganization

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.contactOrganization" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="contactOrganization"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳distinfo/distrib/cntinfo/cntperp/cntorg/text() | /*[local-name() = 'metadata']/
↳distinfo/distrib/cntinfo/cntorgp/cntorg/text()"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>
```

### 17.3.4 fgdc.eastBoundCoord

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.eastBoundCoord" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="eastBoundCoord"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/spdom/bounding/eastbc/text()"/>
    <property name="multivalue" value="false"/>
    <property name="converter" ref="solrLongitudeConverter"/>
</bean>
```

### 17.3.5 fgdc.westBoundCoord

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.westBoundCoord" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="westBoundCoord"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/spdom/bounding/westbc/text()"/>
    <property name="multivalue" value="false"/>
    <property name="converter" ref="solrLongitudeConverter"/>
</bean>
```

### 17.3.6 fgdc.northBoundCoord

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.northBoundCoord" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="northBoundCoord"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/spdom/bounding/northbc/text()"/>
    <property name="multivalue" value="false"/>
    <property name="converter" ref="solrLongitudeConverter"/>
</bean>
```

### 17.3.7 fgdc.southBoundCoord

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.southBoundCoord" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="southBoundCoord"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/spdom/bounding/southbc/text()"/>
    <property name="multivalue" value="false"/>
    <property name="converter" ref="solrLongitudeConverter"/>
</bean>
```

### 17.3.8 fgdc.edition

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.edition" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="edition"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/citeinfo/edition/text()"/>
    <property name="multivalue" value="false"/>
</bean>
```

### 17.3.9 fgdc.endDate

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.endDate" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="endDate"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/timeperd/timeinfo/rngdates/enddate/text()"/>
    <property name="multivalue" value="false"/>
    <property name="converter" ref="fgdcDateConverter"/>
</bean>
```

### 17.3.10 fgdc.gcmdKeyword

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.gcmdKeyword" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="gcmdKeyword"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/keywords/theme[themekt='GCMD Science Keywords']/themekey/text()"/>
    <property name="multivalue" value="true"/>
</bean>
```

### 17.3.11 fgdc.keywords

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.keywords" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="keywords"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/keywords/theme/themekey/text() | /*[local-name() = 'metadata']/idinfo/
↳keywords/place/placekey/text() "/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
    <property name="disallowedValues">
        <list>
            <value>none</value>
        </list>
    </property>
</bean>

```

### 17.3.12 fgdc.geoform

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.geoform" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="geoform"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/citation/citeinfo/geoform/text() "/>
    <property name="multivalue" value="false"/>
</bean>

```

### 17.3.13 fgdc.genus

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.genus" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="genus"/>
    <constructor-arg name="xpath" value="//taxoncl/taxonrv[../taxonrn=&quot;
↳Genus&quot;] /text() "/>
    <property name="multivalue" value="true"/>
</bean>

```

### 17.3.14 fgdc.kingdom

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.kingdom" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="kingdom"/>
    <constructor-arg name="xpath" value="//taxoncl/taxonrv[../taxonrn=&quot;
↳Kingdom&quot;] /text() "/>
    <property name="multivalue" value="true"/>
</bean>

```

### 17.3.15 fgdc.order

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.order" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="order"/>
    <constructor-arg name="xpath" value="//taxoncl/taxonrv[../taxonrn=&quot;
↳Order&quot;]/text()"/>
    <property name="multivalue" value="true"/>
</bean>
```

### 17.3.16 fgdc.phylum

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.phylum" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="phylum"/>
    <constructor-arg name="xpath" value="//taxoncl/taxonrv[../taxonrn=&quot;
↳Phylum&quot;] | //taxoncl/taxonrv[../taxonrn=&quot;Division&quot;]/text()"/>
    <property name="multivalue" value="true"/>
</bean>
```

### 17.3.17 fgdc.species

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.species" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="species"/>
    <constructor-arg name="xpath" value="//taxoncl/taxonrv[../taxonrn=&quot;
↳Species&quot;]/text()"/>
    <property name="multivalue" value="true"/>
</bean>
```

### 17.3.18 fgdc.family

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.family" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="family"/>
    <constructor-arg name="xpath" value="//taxoncl/taxonrv[../taxonrn=&quot;
↳Family&quot;]/text()"/>
    <property name="multivalue" value="true"/>
</bean>
```

### 17.3.19 fgdc.class

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.class" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="class"/>
    <constructor-arg name="xpath" value="//taxoncl/taxonrv[../taxonrn=&quot;
↳Class&quot;]/text()"/>
    <property name="multivalue" value="true"/>
</bean>

```

### 17.3.20 fgdc.origin

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.origin" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="origin"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/citation/citeinfo/origin/text()"/>
    <property name="multivalue" value="true"/>
</bean>

```

### 17.3.21 fgdc.scientificName

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.scientificName" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="true" p:root-ref="fgdc.scientificNameRoot">
    <constructor-arg name="name" value="scientificName"/>
</bean>

```

### 17.3.22 fgdc.placeKey

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.placeKey" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="placeKey"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/keywords/place/placekey/text()"/>
    <property name="multivalue" value="true"/>
</bean>

```

### 17.3.23 fgdc.pubDate

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.pubDate" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="pubDate"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/citation/citeinfo/pubdate/text()"/>
    <property name="multivalue" value="false"/>

```

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```

    <property name="converter" ref="fgdcDateConverter"/>
</bean>

```

### 17.3.24 fgdc.purpose

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.purpose" class="org.dataone.cn.indexer.parser.MergeSolrField">
    <constructor-arg name="name" value="purpose"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/idinfo/
↳descript/purpose/descendant::text()"/>
    <constructor-arg name="delimiter" value=" "/>
    <property name="multivalue" value="false"/>
    <property name="dedupe" value="false"/>
</bean>

```

### 17.3.25 fgdc.title

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.title" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="title"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/citation/citeinfo/title/text()"/>
    <property name="multivalue" value="false"/>
</bean>

```

### 17.3.26 fgdc.web\_url

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.web_url" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="webUrl"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/citation/citeinfo/onlink/text()"/>
    <property name="multivalue" value="true"/>
</bean>

```

### 17.3.27 fgdc.fileID

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.fileID" class="org.dataone.cn.indexer.parser.ResolveSolrField">
    <constructor-arg name="name" value="fileID"/>
</bean>

```

### 17.3.28 fgdc.fullText

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.fullText" class="org.dataone.cn.indexer.parser.AggregateSolrField">
    <property name="name" value="text" />
    <property name="solrFields">
        <list>
            <ref bean="fgdc.text" />
        </list>
    </property>
</bean>
```

### 17.3.29 fgdc.presentationCat

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.presentationCat" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="presentationCat" />
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/citation/citeinfo/geoform/text()"/>
    <property name="multivalue" value="false" />
</bean>
```

### 17.3.30 fgdc.author

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.author" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="author" />
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/citation/citeinfo/origin/text()"/>
    <property name="multivalue" value="false" />
</bean>
```

### 17.3.31 fgdc.authorSurName

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.authorSurName" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="authorSurName" />
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/citation/citeinfo/origin[1]/text()"/>
    <property name="multivalue" value="false" />
</bean>
```

### 17.3.32 fgdc.authorSurNameSort



```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.authorSurNameSort" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="authorSurNameSort"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/citation/citeinfo/origin[1]/text()"/>
    <property name="multivalue" value="false"/>
</bean>

```

### 17.3.33 fgdc.investigator

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.investigator" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="investigator"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/citation/citeinfo/origin/text()"/>
    <property name="multivalue" value="true"/>
</bean>

```

### 17.3.34 fgdc.site

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.site" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="site"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/spdom/descgeog/text()"/>
    <property name="multivalue" value="true"/>
</bean>

```

### 17.3.35 fgdc.attributeName

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.attributeName" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="attributeName"/>
    <constructor-arg name="xpath" value="//attr/attrlabl/text()"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="false"/>
</bean>

```

### 17.3.36 fgdc.attributeLabel

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.attributeLabel" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="attributeLabel"/>
    <constructor-arg name="xpath" value="//attr/attalias/text()"/>

```

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```

    <property name="multivalue" value="true"/>
    <property name="dedupe" value="false"/>
</bean>

```

### 17.3.37 fgdc.attributeDescription

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.attributeDescription" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="attributeDescription"/>
    <constructor-arg name="xpath" value="//attr/attrdef/text()"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="false"/>
</bean>

```

### 17.3.38 fgdc.attributeUnit

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.attributeUnit" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="attributeUnit"/>
    <constructor-arg name="xpath" value="//attr/attrdomv//attrunit/text() | /
↳/attr//attrdomv//edomv/text()"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="false"/>
</bean>

```

### 17.3.39 fgdc.attributeText

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.attributeText" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="true" p:root-ref="fgdc.attributeTextRoot">
    <constructor-arg name="name" value="attribute"/>
</bean>

```

### 17.3.40 fgdc.geohash1

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.geohash1" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="false" p:root-ref="fgdc.geohashRoot">
    <constructor-arg name="name" value="geohash_1"/>
    <property name="converter" ref="geohashConverter_1"/>
</bean>

```

### 17.3.41 fgdc.geohash2

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.geohash2" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="false" p:root-ref="fgdc.geohashRoot">
    <constructor-arg name="name" value="geohash_2"/>
    <property name="converter" ref="geohashConverter_2"/>
</bean>
```

### 17.3.42 fgdc.geohash3

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.geohash3" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="false" p:root-ref="fgdc.geohashRoot">
    <constructor-arg name="name" value="geohash_3"/>
    <property name="converter" ref="geohashConverter_3"/>
</bean>
```

### 17.3.43 fgdc.geohash4

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.geohash4" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="false" p:root-ref="fgdc.geohashRoot">
    <constructor-arg name="name" value="geohash_4"/>
    <property name="converter" ref="geohashConverter_4"/>
</bean>
```

### 17.3.44 fgdc.geohash5

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.geohash5" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="false" p:root-ref="fgdc.geohashRoot">
    <constructor-arg name="name" value="geohash_5"/>
    <property name="converter" ref="geohashConverter_5"/>
</bean>
```

### 17.3.45 fgdc.geohash6

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.geohash6" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="false" p:root-ref="fgdc.geohashRoot">
    <constructor-arg name="name" value="geohash_6"/>
    <property name="converter" ref="geohashConverter_6"/>
</bean>
```

### 17.3.46 fgdc.geohash7

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.geohash7" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="false" p:root-ref="fgdc.geohashRoot">
    <constructor-arg name="name" value="geohash_7"/>
    <property name="converter" ref="geohashConverter_7"/>
</bean>
```

### 17.3.47 fgdc.geohash8

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.geohash8" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="false" p:root-ref="fgdc.geohashRoot">
    <constructor-arg name="name" value="geohash_8"/>
    <property name="converter" ref="geohashConverter_8"/>
</bean>
```

### 17.3.48 fgdc.geohash9

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.geohash9" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="false" p:root-ref="fgdc.geohashRoot">
    <constructor-arg name="name" value="geohash_9"/>
    <property name="converter" ref="geohashConverter_9"/>
</bean>
```

Describes parser configuration for: fgdcstd00111999Subprocessor

### 18.1 Format IDs Processed

This parser processes the following DataONE format IDs:

- Content Standard for Digital Geospatial Metadata, Biological Data Profile, version 001.1-1999  
formatId: FGDC-STD-001.1-1999

A full list of DataONE format IDs can be found at <https://cn.dataone.org/cn/v2/formats/>

### 18.2 Fields

The following fields in the solr index are populated from values retrieved from this type of metadata document. Note that these are in addition to the information extracted from *System Metadata Parser*.

Solr Field	Multi	Dedupe	Source
<i>Index.abstract</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/descript/ ↳abstract/ descendant::text ()</pre> <p>Processor: MergeSolrField Configuration: <i>fgdc.abstract</i></p>

Continued on next page

Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.beginDate</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/timeperd/ ↪timeinfo/ rngdates/begdate/text ()</pre> <p>Processor: SolrField  Configuration: <i>fgdc.beginDate</i>  Converter: FgdcDateConverter</p>
<i>Index.contactOrganization</i>	True	True	<pre>/*[local-name() = 'metadata']/distinfo/distrib/ ↪cntinfo/ cntperp/cntorg/text ()   /*[local-name() = 'metadata']/distinfo/distrib/cntinfo/cntorgp/ ↪cntorg/ text ()</pre> <p>Processor: SolrField  Configuration: <i>fgdc.contactOrganization</i></p>
<i>Index.eastBoundCoord</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/spdom/ ↪bounding/eastbc/ text ()</pre> <p>Processor: SolrField  Configuration: <i>fgdc.eastBoundCoord</i>  Converter: SolrLongitudeConverter</p>
<i>Index.westBoundCoord</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/spdom/ ↪bounding/westbc/ text ()</pre> <p>Processor: SolrField  Configuration: <i>fgdc.westBoundCoord</i>  Converter: SolrLongitudeConverter</p>

Continued on next page

Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.northBoundCoord</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/spdom/ ↳bounding/northbc/ text()</pre> <p>Processor: SolrField  Configuration: <i>fgdc.northBoundCoord</i>  Converter: SolrLongitudeConverter</p>
<i>Index.southBoundCoord</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/spdom/ ↳bounding/southbc/ text()</pre> <p>Processor: SolrField  Configuration: <i>fgdc.southBoundCoord</i>  Converter: SolrLongitudeConverter</p>
<i>Index.edition</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/citeinfo/ ↳edition/text()</pre> <p>Processor: SolrField  Configuration: <i>fgdc.edition</i></p>
<i>Index.endDate</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/timeperd/ ↳timeinfo/ rngdates/enddate/text()</pre> <p>Processor: SolrField  Configuration: <i>fgdc.endDate</i>  Converter: FgdcDateConverter</p>
<i>Index.gcmdKeyword</i>	True	False	<pre>/*[local-name() = 'metadata']/idinfo/keywords/ ↳theme[themekt= 'GCMD Science Keywords']/themekey/text()</pre> <p>Processor: SolrField  Configuration: <i>fgdc.gcmdKeyword</i></p>

Continued on next page

Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.keywords</i>	True	True	<pre>/*[local-name() = 'metadata']/idinfo/keywords/ ↳theme/ themekey/text()   /*[local-name() = 'metadata']/ idinfo/keywords/place/placekey/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.keywords</i></p>
<i>Index.geoform</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/citation/ ↳citeinfo/ geoform/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.geoform</i></p>
<i>Index.genus</i>	True	False	<pre>//taxoncl/taxonrv[../taxonrn="Genus"]/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.genus</i></p>
<i>Index.kingdom</i>	True	False	<pre>//taxoncl/taxonrv[../taxonrn="Kingdom"]/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.kingdom</i></p>
<i>Index.order</i>	True	False	<pre>//taxoncl/taxonrv[../taxonrn="Order"]/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.order</i></p>
<i>Index.phylum</i>	True	False	<pre>//taxoncl/taxonrv[../taxonrn="Phylum"]/text()  ↳ ↳//taxoncl/ taxonrv[../taxonrn="Division"]/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.phylum</i></p>

Continued on next page



Table 1 – continued from previous page

Solr Field	Multi	Duplicate	Source
<i>Index.species</i>	True	False	<pre>//taxoncl/taxonrv[../taxonrn="Species"]/text ()</pre> <p>Processor: SolrField Configuration: <i>fgdc.species</i></p>
<i>Index.family</i>	True	False	<pre>//taxoncl/taxonrv[../taxonrn="Family"]/text ()</pre> <p>Processor: SolrField Configuration: <i>fgdc.family</i></p>
<i>Index.class</i>	True	False	<pre>//taxoncl/taxonrv[../taxonrn="Class"]/text ()</pre> <p>Processor: SolrField Configuration: <i>fgdc.class</i></p>
<i>Index.scientificName</i>	False		<pre>//taxoncl/taxonrv[../taxonrn="Genus"] -&gt;{   ↳{[genus] [species] }}; genus = ../taxonrv/text (); species = ↳taxonrv/ text ()</pre> <p>Processor: CommonRootSolrField Configuration: <i>fgdc.scientificName</i> Notes: This bean uses a template populated from additional sources. See configuration for more details.</p>
<i>Index.origin</i>	True	False	<pre>/*[local-name() = 'metadata']/idinfo/citation/ ↳citeinfo/ origin/text ()</pre> <p>Processor: SolrField Configuration: <i>fgdc.origin</i></p>
<i>Index.placeKey</i>	True	False	<pre>/*[local-name() = 'metadata']/idinfo/keywords/ ↳place/ placekey/text ()</pre> <p>Processor: SolrField Configuration: <i>fgdc.placeKey</i></p>

Continued on next page

Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.pubDate</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/citation/ ↪citeinfo/ pubdate/text()</pre> <p>Processor: SolrField  Configuration: <i>fgdc.pubDate</i>  Converter: FgdcDateConverter</p>
<i>Index.purpose</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/descript/ ↪purpose/ descendant::text()</pre> <p>Processor: MergeSolrField  Configuration: <i>fgdc.purpose</i></p>
<i>Index.title</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/citation/ ↪citeinfo/ title/text()</pre> <p>Processor: SolrField  Configuration: <i>fgdc.title</i></p>
<i>Index.webUrl</i>	True	False	<pre>/*[local-name() = 'metadata']/idinfo/citation/ ↪citeinfo/ onlink/text()</pre> <p>Processor: SolrField  Configuration: <i>fgdc.web_url</i></p>
<i>Index.fileID</i>			<p>Processor: ResolveSolrField  Configuration: <i>fgdc.fileID</i>  Notes: SolrField which configures the resolve url for the document being processed.  Converter:</p>
<i>Index.text</i>			<p>Processor: AggregateSolrField  Configuration: <i>fgdc.fullText</i>  Converter:</p>

Continued on next page

Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.presentationCat</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/citation/ ↪citeinfo/ geoform/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.presentationCat</i></p>
<i>Index.author</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/citation/ ↪citeinfo/ origin/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.author</i></p>
<i>Index.authorSurName</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/citation/ ↪citeinfo/ origin[1]/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.authorSurName</i></p>
<i>Index.authorSurNameSort</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/citation/ ↪citeinfo/ origin[1]/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.authorSurNameSort</i></p>
<i>Index.investigator</i>	True	False	<pre>/*[local-name() = 'metadata']/idinfo/citation/ ↪citeinfo/ origin/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.investigator</i></p>
<i>Index.site</i>	True	False	<pre>/*[local-name() = 'metadata']/idinfo/spdom/ ↪descgeog/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.site</i></p>

Continued on next page

Table 1 – continued from previous page

Solr Field	Multi	Duplicate Source	Source
<i>Index.attributeName</i>	True	False	<pre>//attr/attrlabl/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.attributeName</i></p>
<i>Index.attributeLabel</i>	True	False	<pre>//attr/attalias/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.attributeLabel</i></p>
<i>Index.attributeDescription</i>	True	False	<pre>//attr/attrdef/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.attributeDescription</i></p>
<i>Index.attributeUnit</i>	True	False	<pre>//attr/attrdomv//attrunit/text()   //attr// ↪attrdomv//edomv/ text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.attributeUnit</i></p>
<i>Index.attribute</i>	False		<pre>//attr -&gt;{{[attributeName] [attributeLabel] [ attributeDescription] [attributeUnit]}}; attributeName = attrlabl/text(); attributeLabel_ ↪= attalias/text(); attributeDescription = attrdef/ text(); attributeUnit = attrdomv//attrunit/ ↪text()   .//attrdomv//edomv/text()</pre> <p>Processor: CommonRootSolrField Configuration: <i>fgdc.attributeText</i> Notes: This bean uses a template populated from additional sources. See configuration for more details.</p>

Continued on next page

Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_1</i>	False		<pre> /*[local-name() = 'metadata']/idinfo/spdom/ ↪bounding -&gt;{[ northBoundingCoordinate]_ ↪[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↪[westBoundingCoordinate]}}; northBoundingCoordinate = northbc/text(); southBoundingCoordinate = southbc/text(); eastBoundingCoordinate = eastbc/text(); westBoundingCoordinate = westbc/text()  Processor: <a href="#">CommonRootSolrField</a> Configuration: <i>fgdc.geohash1</i> Notes: This bean uses a template populated from additional sources. See configuration for more details. Converter: <a href="#">GeohashConverter</a> </pre>
<i>Index.geohash_2</i>	False		<pre> /*[local-name() = 'metadata']/idinfo/spdom/ ↪bounding -&gt;{[ northBoundingCoordinate]_ ↪[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↪[westBoundingCoordinate]}}; northBoundingCoordinate = northbc/text(); southBoundingCoordinate = southbc/text(); eastBoundingCoordinate = eastbc/text(); westBoundingCoordinate = westbc/text()  Processor: <a href="#">CommonRootSolrField</a> Configuration: <i>fgdc.geohash2</i> Notes: This bean uses a template populated from additional sources. See configuration for more details. Converter: <a href="#">GeohashConverter</a> </pre>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_3</i>	False		<pre> /*[local-name() = 'metadata']/idinfo/spdom/ ↪bounding -&gt;{[ northBoundingCoordinate]_ ↪[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↪[westBoundingCoordinate]}}; northBoundingCoordinate = northbc/text(); southBoundingCoordinate = southbc/text(); eastBoundingCoordinate = eastbc/text(); westBoundingCoordinate = westbc/text()  Processor: CommonRootSolrField Configuration: fgdc.geohash3 Notes: This bean uses a template populated from additional sources. See configuration for more details. Converter: GeohashConverter </pre>
<i>Index.geohash_4</i>	False		<pre> /*[local-name() = 'metadata']/idinfo/spdom/ ↪bounding -&gt;{[ northBoundingCoordinate]_ ↪[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↪[westBoundingCoordinate]}}; northBoundingCoordinate = northbc/text(); southBoundingCoordinate = southbc/text(); eastBoundingCoordinate = eastbc/text(); westBoundingCoordinate = westbc/text()  Processor: CommonRootSolrField Configuration: fgdc.geohash4 Notes: This bean uses a template populated from additional sources. See configuration for more details. Converter: GeohashConverter </pre>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_5</i>	False		<pre> /*[local-name() = 'metadata']/idinfo/spdom/ ↪bounding -&gt;{[ northBoundingCoordinate]_ ↪[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↪[westBoundingCoordinate]}}; northBoundingCoordinate = northbc/text(); southBoundingCoordinate = southbc/text(); eastBoundingCoordinate = eastbc/text(); westBoundingCoordinate = westbc/text()  Processor: <a href="#">CommonRootSolrField</a> Configuration: <i>fgdc.geohash5</i> Notes: This bean uses a template populated from additional sources. See configuration for more details. Converter: <a href="#">GeohashConverter</a> </pre>
<i>Index.geohash_6</i>	False		<pre> /*[local-name() = 'metadata']/idinfo/spdom/ ↪bounding -&gt;{[ northBoundingCoordinate]_ ↪[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↪[westBoundingCoordinate]}}; northBoundingCoordinate = northbc/text(); southBoundingCoordinate = southbc/text(); eastBoundingCoordinate = eastbc/text(); westBoundingCoordinate = westbc/text()  Processor: <a href="#">CommonRootSolrField</a> Configuration: <i>fgdc.geohash6</i> Notes: This bean uses a template populated from additional sources. See configuration for more details. Converter: <a href="#">GeohashConverter</a> </pre>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_7</i>	False		<pre> /*[local-name() = 'metadata']/idinfo/spdom/ ↪bounding -&gt;{[ northBoundingCoordinate]_ ↪[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↪[westBoundingCoordinate]}}; northBoundingCoordinate = northbc/text(); southBoundingCoordinate = southbc/text(); eastBoundingCoordinate = eastbc/text(); westBoundingCoordinate = westbc/text()  Processor: CommonRootSolrField Configuration: fgdc.geohash7 Notes: This bean uses a template populated from additional sources. See configuration for more details. Converter: GeohashConverter </pre>
<i>Index.geohash_8</i>	False		<pre> /*[local-name() = 'metadata']/idinfo/spdom/ ↪bounding -&gt;{[ northBoundingCoordinate]_ ↪[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↪[westBoundingCoordinate]}}; northBoundingCoordinate = northbc/text(); southBoundingCoordinate = southbc/text(); eastBoundingCoordinate = eastbc/text(); westBoundingCoordinate = westbc/text()  Processor: CommonRootSolrField Configuration: fgdc.geohash8 Notes: This bean uses a template populated from additional sources. See configuration for more details. Converter: GeohashConverter </pre>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_9</i>	False		<pre> /*[local-name() = 'metadata']/idinfo/spdom/ ↳bounding -&gt;{[[ northBoundingCoordinate]↳ ↳[southBoundingCoordinate] [ eastBoundingCoordinate]↳ ↳[westBoundingCoordinate]}}; northBoundingCoordinate = northbc/text(); southBoundingCoordinate = southbc/text(); eastBoundingCoordinate = eastbc/text(); westBoundingCoordinate = westbc/text()  Processor: CommonRootSolrField Configuration: fgdc.geohash9 Notes: This bean uses a template populated from additional sources. See configuration for more details. Converter: GeohashConverter </pre>

## 18.3 Bean Configurations

### 18.3.1 fgdc.abstract

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.abstract" class="org.dataone.cn.indexer.parser.MergeSolrField">
  <constructor-arg name="name" value="abstract"/>
  <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/idinfo/
↳descript/abstract/descendant::text()"/>
  <constructor-arg name="delimiter" value=" "/>
  <property name="multivalue" value="false"/>
  <property name="dedupe" value="false"/>
</bean>

```

### 18.3.2 fgdc.beginDate

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.beginDate" class="org.dataone.cn.indexer.parser.SolrField">
  <constructor-arg name="name" value="beginDate"/>
  <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/timeperd/timeinfo/rngdates/begdate/text()"/>
  <property name="multivalue" value="false"/>
  <property name="converter" ref="fgdcDateConverter"/>
</bean>

```

### 18.3.3 fgdc.contactOrganization

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.contactOrganization" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="contactOrganization"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳distinfo/distrib/cntinfo/cntperp/cntorg/text() | /*[local-name() = 'metadata']/
↳distinfo/distrib/cntinfo/cntorgp/cntorg/text()"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>
```

### 18.3.4 fgdc.eastBoundCoord

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.eastBoundCoord" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="eastBoundCoord"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/spdom/bounding/eastbc/text()"/>
    <property name="multivalue" value="false"/>
    <property name="converter" ref="solrLongitudeConverter"/>
</bean>
```

### 18.3.5 fgdc.westBoundCoord

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.westBoundCoord" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="westBoundCoord"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/spdom/bounding/westbc/text()"/>
    <property name="multivalue" value="false"/>
    <property name="converter" ref="solrLongitudeConverter"/>
</bean>
```

### 18.3.6 fgdc.northBoundCoord

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.northBoundCoord" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="northBoundCoord"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/spdom/bounding/northbc/text()"/>
    <property name="multivalue" value="false"/>
    <property name="converter" ref="solrLongitudeConverter"/>
</bean>
```

### 18.3.7 fgdc.southBoundCoord

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.southBoundCoord" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="southBoundCoord"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/spdom/bounding/southbc/text()"/>
    <property name="multivalue" value="false"/>
    <property name="converter" ref="solrLongitudeConverter"/>
</bean>
```

### 18.3.8 fgdc.edition

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.edition" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="edition"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/citeinfo/edition/text()"/>
    <property name="multivalue" value="false"/>
</bean>
```

### 18.3.9 fgdc.endDate

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.endDate" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="endDate"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/timeperd/timeinfo/rngdates/enddate/text()"/>
    <property name="multivalue" value="false"/>
    <property name="converter" ref="fgdcDateConverter"/>
</bean>
```

### 18.3.10 fgdc.gcmdKeyword

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.gcmdKeyword" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="gcmdKeyword"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/keywords/theme[themekt='GCMD Science Keywords']/themekey/text()"/>
    <property name="multivalue" value="true"/>
</bean>
```

### 18.3.11 fgdc.keywords

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.keywords" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="keywords"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/keywords/theme/themekey/text() | /*[local-name() = 'metadata']/idinfo/
↳keywords/place/placekey/text() "/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
    <property name="disallowedValues">
        <list>
            <value>none</value>
        </list>
    </property>
</bean>

```

### 18.3.12 fgdc.geoform

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.geoform" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="geoform"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/citation/citeinfo/geoform/text() "/>
    <property name="multivalue" value="false"/>
</bean>

```

### 18.3.13 fgdc.genus

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.genus" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="genus"/>
    <constructor-arg name="xpath" value="//taxoncl/taxonrv[../taxonrn=&quot;
↳Genus&quot;]/text() "/>
    <property name="multivalue" value="true"/>
</bean>

```

### 18.3.14 fgdc.kingdom

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.kingdom" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="kingdom"/>
    <constructor-arg name="xpath" value="//taxoncl/taxonrv[../taxonrn=&quot;
↳Kingdom&quot;]/text() "/>
    <property name="multivalue" value="true"/>
</bean>

```

### 18.3.15 fgdc.order

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.order" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="order"/>
    <constructor-arg name="xpath" value="//taxoncl/taxonrv[../taxonrn=&quot;
↳Order&quot;]/text()"/>
    <property name="multivalued" value="true"/>
</bean>
```

### 18.3.16 fgdc.phylum

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.phylum" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="phylum"/>
    <constructor-arg name="xpath" value="//taxoncl/taxonrv[../taxonrn=&quot;
↳Phylum&quot; | //taxoncl/taxonrv[../taxonrn=&quot;Division&quot;]/text()"/>
    <property name="multivalued" value="true"/>
</bean>
```

### 18.3.17 fgdc.species

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.species" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="species"/>
    <constructor-arg name="xpath" value="//taxoncl/taxonrv[../taxonrn=&quot;
↳Species&quot;]/text()"/>
    <property name="multivalued" value="true"/>
</bean>
```

### 18.3.18 fgdc.family

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.family" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="family"/>
    <constructor-arg name="xpath" value="//taxoncl/taxonrv[../taxonrn=&quot;
↳Family&quot;]/text()"/>
    <property name="multivalued" value="true"/>
</bean>
```

### 18.3.19 fgdc.class

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.class" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="class"/>
    <constructor-arg name="xpath" value="//taxoncl/taxonrv[../taxonrn=&quot;
↳Class&quot;]/text()"/>
    <property name="multivalue" value="true"/>
</bean>

```

### 18.3.20 fgdc.scientificName

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.scientificName" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="true" p:root-ref="fgdc.scientificNameRoot">
    <constructor-arg name="name" value="scientificName"/>
</bean>

```

### 18.3.21 fgdc.origin

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.origin" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="origin"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/citation/citeinfo/origin/text()"/>
    <property name="multivalue" value="true"/>
</bean>

```

### 18.3.22 fgdc.placeKey

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.placeKey" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="placeKey"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/keywords/place/placekey/text()"/>
    <property name="multivalue" value="true"/>
</bean>

```

### 18.3.23 fgdc.pubDate

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.pubDate" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="pubDate"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/citation/citeinfo/pubdate/text()"/>
    <property name="multivalue" value="false"/>

```

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```

    <property name="converter" ref="fgdcDateConverter"/>
</bean>

```

### 18.3.24 fgdc.purpose

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.purpose" class="org.dataone.cn.indexer.parser.MergeSolrField">
    <constructor-arg name="name" value="purpose"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/idinfo/
↳descript/purpose/descendant::text()"/>
    <constructor-arg name="delimiter" value=" "/>
    <property name="multivalue" value="false"/>
    <property name="dedupe" value="false"/>
</bean>

```

### 18.3.25 fgdc.title

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.title" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="title"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/citation/citeinfo/title/text()"/>
    <property name="multivalue" value="false"/>
</bean>

```

### 18.3.26 fgdc.web\_url

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.web_url" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="webUrl"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/citation/citeinfo/onlink/text()"/>
    <property name="multivalue" value="true"/>
</bean>

```

### 18.3.27 fgdc.fileID

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.fileID" class="org.dataone.cn.indexer.parser.ResolveSolrField">
    <constructor-arg name="name" value="fileID"/>
</bean>

```

### 18.3.28 fgdc.fullText

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.fullText" class="org.dataone.cn.indexer.parser.AggregateSolrField">
    <property name="name" value="text" />
    <property name="solrFields">
        <list>
            <ref bean="fgdc.text" />
        </list>
    </property>
</bean>
```

### 18.3.29 fgdc.presentationCat

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.presentationCat" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="presentationCat" />
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/citation/citeinfo/geoform/text()"/>
    <property name="multivalue" value="false" />
</bean>
```

### 18.3.30 fgdc.author

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.author" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="author" />
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/citation/citeinfo/origin/text()"/>
    <property name="multivalue" value="false" />
</bean>
```

### 18.3.31 fgdc.authorSurName

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.authorSurName" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="authorSurName" />
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/citation/citeinfo/origin[1]/text()"/>
    <property name="multivalue" value="false" />
</bean>
```

### 18.3.32 fgdc.authorSurNameSort



```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.authorSurNameSort" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="authorSurNameSort"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/citation/citeinfo/origin[1]/text()"/>
    <property name="multivalue" value="false"/>
</bean>

```

### 18.3.33 fgdc.investigator

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.investigator" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="investigator"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/citation/citeinfo/origin/text()"/>
    <property name="multivalue" value="true"/>
</bean>

```

### 18.3.34 fgdc.site

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.site" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="site"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/spdom/descgeog/text()"/>
    <property name="multivalue" value="true"/>
</bean>

```

### 18.3.35 fgdc.attributeName

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.attributeName" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="attributeName"/>
    <constructor-arg name="xpath" value="//attr/attrlabl/text()"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="false"/>
</bean>

```

### 18.3.36 fgdc.attributeLabel

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.attributeLabel" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="attributeLabel"/>
    <constructor-arg name="xpath" value="//attr/attalias/text()"/>

```

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```

    <property name="multivalue" value="true"/>
    <property name="dedupe" value="false"/>
</bean>

```

### 18.3.37 fgdc.attributeDescription

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.attributeDescription" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="attributeDescription"/>
    <constructor-arg name="xpath" value="//attr/attrdef/text()"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="false"/>
</bean>

```

### 18.3.38 fgdc.attributeUnit

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.attributeUnit" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="attributeUnit"/>
    <constructor-arg name="xpath" value="//attr/attrdomv//attrunit/text() | /
↳/attr//attrdomv//edomv/text()"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="false"/>
</bean>

```

### 18.3.39 fgdc.attributeText

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.attributeText" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="true" p:root-ref="fgdc.attributeTextRoot">
    <constructor-arg name="name" value="attribute"/>
</bean>

```

### 18.3.40 fgdc.geohash1

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.geohash1" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="false" p:root-ref="fgdc.geohashRoot">
    <constructor-arg name="name" value="geohash_1"/>
    <property name="converter" ref="geohashConverter_1"/>
</bean>

```

### 18.3.41 fgdc.geohash2

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.geohash2" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="false" p:root-ref="fgdc.geohashRoot">
    <constructor-arg name="name" value="geohash_2"/>
    <property name="converter" ref="geohashConverter_2"/>
</bean>
```

### 18.3.42 fgdc.geohash3

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.geohash3" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="false" p:root-ref="fgdc.geohashRoot">
    <constructor-arg name="name" value="geohash_3"/>
    <property name="converter" ref="geohashConverter_3"/>
</bean>
```

### 18.3.43 fgdc.geohash4

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.geohash4" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="false" p:root-ref="fgdc.geohashRoot">
    <constructor-arg name="name" value="geohash_4"/>
    <property name="converter" ref="geohashConverter_4"/>
</bean>
```

### 18.3.44 fgdc.geohash5

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.geohash5" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="false" p:root-ref="fgdc.geohashRoot">
    <constructor-arg name="name" value="geohash_5"/>
    <property name="converter" ref="geohashConverter_5"/>
</bean>
```

### 18.3.45 fgdc.geohash6

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.geohash6" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="false" p:root-ref="fgdc.geohashRoot">
    <constructor-arg name="name" value="geohash_6"/>
    <property name="converter" ref="geohashConverter_6"/>
</bean>
```

### 18.3.46 fgdc.geohash7

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.geohash7" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="false" p:root-ref="fgdc.geohashRoot">
    <constructor-arg name="name" value="geohash_7"/>
    <property name="converter" ref="geohashConverter_7"/>
</bean>
```

### 18.3.47 fgdc.geohash8

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.geohash8" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="false" p:root-ref="fgdc.geohashRoot">
    <constructor-arg name="name" value="geohash_8"/>
    <property name="converter" ref="geohashConverter_8"/>
</bean>
```

### 18.3.48 fgdc.geohash9

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.geohash9" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="false" p:root-ref="fgdc.geohashRoot">
    <constructor-arg name="name" value="geohash_9"/>
    <property name="converter" ref="geohashConverter_9"/>
</bean>
```

Describes parser configuration for: fgdcstd0011998Subprocessor

### 19.1 Format IDs Processed

This parser processes the following DataONE format IDs:

- Content Standard for Digital Geospatial Metadata, version 001-1998  
formatId: FGDC-STD-001-1998

A full list of DataONE format IDs can be found at <https://cn.dataone.org/cn/v2/formats/>

### 19.2 Fields

The following fields in the solr index are populated from values retrieved from this type of metadata document. Note that these are in addition to the information extracted from *System Metadata Parser*.

Solr Field	Multi	Dedupe	Source
<i>Index.abstract</i>	False	False	<pre>/*[[local-name() = 'metadata']/idinfo/descript/ ↪abstract/ descendant::text ()</pre> <p>Processor: MergeSolrField Configuration: <i>fgdc.abstract</i></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.beginDate</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/timeperd/ ↪timeinfo/ rngdates/begdate/text ()</pre> <p>Processor: SolrField  Configuration: <i>fgdc.beginDate</i>  Converter: FgdcDateConverter</p>
<i>Index.contactOrganization</i>	True	True	<pre>/*[local-name() = 'metadata']/distinfo/distrib/ ↪cntinfo/ cntperp/cntorg/text ()   /*[local-name() = 'metadata']/distinfo/distrib/cntinfo/cntorgp/ ↪cntorg/ text ()</pre> <p>Processor: SolrField  Configuration: <i>fgdc.contactOrganization</i></p>
<i>Index.eastBoundCoord</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/spdom/ ↪bounding/eastbc/ text ()</pre> <p>Processor: SolrField  Configuration: <i>fgdc.eastBoundCoord</i>  Converter: SolrLongitudeConverter</p>
<i>Index.westBoundCoord</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/spdom/ ↪bounding/westbc/ text ()</pre> <p>Processor: SolrField  Configuration: <i>fgdc.westBoundCoord</i>  Converter: SolrLongitudeConverter</p>

Continued on next page

Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.northBoundCoord</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/spdom/ ↳bounding/northbc/ text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.northBoundCoord</i> Converter: SolrLongitudeConverter</p>
<i>Index.southBoundCoord</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/spdom/ ↳bounding/southbc/ text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.southBoundCoord</i> Converter: SolrLongitudeConverter</p>
<i>Index.edition</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/citeinfo/ ↳edition/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.edition</i></p>
<i>Index.endDate</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/timeperd/ ↳timeinfo/ rngdates/enddate/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.endDate</i> Converter: FgdcDateConverter</p>
<i>Index.gcmdKeyword</i>	True	False	<pre>/*[local-name() = 'metadata']/idinfo/keywords/ ↳theme[themekt= 'GCMD Science Keywords']/themekey/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.gcmdKeyword</i></p>

Continued on next page

Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.keywords</i>	True	True	<pre>/*[local-name() = 'metadata']/idinfo/keywords/ ↳theme/ themekey/text()   /*[local-name() = 'metadata']/ idinfo/keywords/place/placekey/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.keywords</i></p>
<i>Index.geoform</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/citation/ ↳citeinfo/ geoform/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.geoform</i></p>
<i>Index.genus</i>	True	False	<pre>//taxoncl/taxonrv[../taxonrn="Genus"]/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.genus</i></p>
<i>Index.kingdom</i>	True	False	<pre>//taxoncl/taxonrv[../taxonrn="Kingdom"]/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.kingdom</i></p>
<i>Index.order</i>	True	False	<pre>//taxoncl/taxonrv[../taxonrn="Order"]/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.order</i></p>
<i>Index.phylum</i>	True	False	<pre>//taxoncl/taxonrv[../taxonrn="Phylum"]/text()  ↳ ↳//taxoncl/ taxonrv[../taxonrn="Division"]/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.phylum</i></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.species</i>	True	False	<pre>//taxoncl/taxonrv[../taxonrn="Species"]/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.species</i></p>
<i>Index.family</i>	True	False	<pre>//taxoncl/taxonrv[../taxonrn="Family"]/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.family</i></p>
<i>Index.class</i>	True	False	<pre>//taxoncl/taxonrv[../taxonrn="Class"]/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.class</i></p>
<i>Index.scientificName</i>	False		<pre>//taxoncl/taxonrv[../taxonrn="Genus"] -&gt;{   ↳{[genus] [species] }}; genus = ../taxonrv/text(); species = ↳taxonrv/ text()</pre> <p>Processor: CommonRootSolrField Configuration: <i>fgdc.scientificName</i> Notes: This bean uses a template populated from additional sources. See configuration for more details.</p>
<i>Index.origin</i>	True	False	<pre>/*[local-name() = 'metadata']/idinfo/citation/ ↳citeinfo/ origin/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.origin</i></p>
<i>Index.placeKey</i>	True	False	<pre>/*[local-name() = 'metadata']/idinfo/keywords/ ↳place/ placekey/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.placeKey</i></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.pubDate</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/citation/ ↪citeinfo/ pubdate/text()</pre> <p>Processor: SolrField  Configuration: <i>fgdc.pubDate</i>  Converter: FgdcDateConverter</p>
<i>Index.purpose</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/descript/ ↪purpose/ descendant::text()</pre> <p>Processor: MergeSolrField  Configuration: <i>fgdc.purpose</i></p>
<i>Index.title</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/citation/ ↪citeinfo/ title/text()</pre> <p>Processor: SolrField  Configuration: <i>fgdc.title</i></p>
<i>Index.webUrl</i>	True	False	<pre>/*[local-name() = 'metadata']/idinfo/citation/ ↪citeinfo/ onlink/text()</pre> <p>Processor: SolrField  Configuration: <i>fgdc.web_url</i></p>
<i>Index.fileID</i>			<p>Processor: ResolveSolrField  Configuration: <i>fgdc.fileID</i>  Notes: SolrField which configures the resolve url for the document being processed.  Converter:</p>
<i>Index.text</i>			<p>Processor: AggregateSolrField  Configuration: <i>fgdc.fullText</i>  Converter:</p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.presentationCat</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/citation/ ↪citeinfo/ geoform/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.presentationCat</i></p>
<i>Index.author</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/citation/ ↪citeinfo/ origin/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.author</i></p>
<i>Index.authorSurName</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/citation/ ↪citeinfo/ origin[1]/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.authorSurName</i></p>
<i>Index.authorSurNameSort</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/citation/ ↪citeinfo/ origin[1]/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.authorSurNameSort</i></p>
<i>Index.investigator</i>	True	False	<pre>/*[local-name() = 'metadata']/idinfo/citation/ ↪citeinfo/ origin/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.investigator</i></p>
<i>Index.site</i>	True	False	<pre>/*[local-name() = 'metadata']/idinfo/spdom/ ↪descgeog/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.site</i></p>

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Table 1 – continued from previous page

Solr Field	Multi	Duplicate Source	Source
<i>Index.attributeName</i>	True	False	<pre>//attr/attrlabl/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.attributeName</i></p>
<i>Index.attributeLabel</i>	True	False	<pre>//attr/attalias/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.attributeLabel</i></p>
<i>Index.attributeDescription</i>	True	False	<pre>//attr/attrdef/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.attributeDescription</i></p>
<i>Index.attributeUnit</i>	True	False	<pre>//attr/attrdomv//attrunit/text()   //attr// ↪attrdomv//edomv/ text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.attributeUnit</i></p>
<i>Index.attribute</i>	False		<pre>//attr -&gt;{{[attributeName] [attributeLabel] [ attributeDescription] [attributeUnit]}}; attributeName = attrlabl/text(); attributeLabel_ ↪= attalias/text(); attributeDescription = attrdef/ text(); attributeUnit = attrdomv//attrunit/ ↪text()   ./attrdomv//edomv/text()</pre> <p>Processor: CommonRootSolrField Configuration: <i>fgdc.attributeText</i> Notes: This bean uses a template populated from additional sources. See configuration for more details.</p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_1</i>	False		<pre> /*[local-name() = 'metadata']/idinfo/spdom/ ↪bounding -&gt;{[ northBoundingCoordinate]_ ↪[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↪[westBoundingCoordinate]}}; northBoundingCoordinate = northbc/text(); southBoundingCoordinate = southbc/text(); eastBoundingCoordinate = eastbc/text(); westBoundingCoordinate = westbc/text()  Processor: <a href="#">CommonRootSolrField</a> Configuration: <i>fgdc.geohash1</i> Notes: This bean uses a template populated from additional sources. See configuration for more details. Converter: <a href="#">GeohashConverter</a> </pre>
<i>Index.geohash_2</i>	False		<pre> /*[local-name() = 'metadata']/idinfo/spdom/ ↪bounding -&gt;{[ northBoundingCoordinate]_ ↪[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↪[westBoundingCoordinate]}}; northBoundingCoordinate = northbc/text(); southBoundingCoordinate = southbc/text(); eastBoundingCoordinate = eastbc/text(); westBoundingCoordinate = westbc/text()  Processor: <a href="#">CommonRootSolrField</a> Configuration: <i>fgdc.geohash2</i> Notes: This bean uses a template populated from additional sources. See configuration for more details. Converter: <a href="#">GeohashConverter</a> </pre>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_3</i>	False		<pre> /*[local-name() = 'metadata']/idinfo/spdom/ ↪bounding -&gt;{[ northBoundingCoordinate]_ ↪[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↪[westBoundingCoordinate]}}; northBoundingCoordinate = northbc/text(); southBoundingCoordinate = southbc/text(); eastBoundingCoordinate = eastbc/text(); westBoundingCoordinate = westbc/text()  Processor: CommonRootSolrField Configuration: fgdc.geohash3 Notes: This bean uses a template populated from additional sources. See configuration for more details. Converter: GeohashConverter </pre>
<i>Index.geohash_4</i>	False		<pre> /*[local-name() = 'metadata']/idinfo/spdom/ ↪bounding -&gt;{[ northBoundingCoordinate]_ ↪[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↪[westBoundingCoordinate]}}; northBoundingCoordinate = northbc/text(); southBoundingCoordinate = southbc/text(); eastBoundingCoordinate = eastbc/text(); westBoundingCoordinate = westbc/text()  Processor: CommonRootSolrField Configuration: fgdc.geohash4 Notes: This bean uses a template populated from additional sources. See configuration for more details. Converter: GeohashConverter </pre>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_5</i>	False		<pre> /*[local-name() = 'metadata']/idinfo/spdom/ ↪bounding -&gt;{[ northBoundingCoordinate]_ ↪[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↪[westBoundingCoordinate]}}; northBoundingCoordinate = northbc/text(); southBoundingCoordinate = southbc/text(); eastBoundingCoordinate = eastbc/text(); westBoundingCoordinate = westbc/text()  Processor: <a href="#">CommonRootSolrField</a> Configuration: <i>fgdc.geohash5</i> Notes: This bean uses a template populated from additional sources. See configuration for more details. Converter: <a href="#">GeohashConverter</a> </pre>
<i>Index.geohash_6</i>	False		<pre> /*[local-name() = 'metadata']/idinfo/spdom/ ↪bounding -&gt;{[ northBoundingCoordinate]_ ↪[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↪[westBoundingCoordinate]}}; northBoundingCoordinate = northbc/text(); southBoundingCoordinate = southbc/text(); eastBoundingCoordinate = eastbc/text(); westBoundingCoordinate = westbc/text()  Processor: <a href="#">CommonRootSolrField</a> Configuration: <i>fgdc.geohash6</i> Notes: This bean uses a template populated from additional sources. See configuration for more details. Converter: <a href="#">GeohashConverter</a> </pre>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_7</i>	False		<pre> /*[local-name() = 'metadata']/idinfo/spdom/ ↪bounding -&gt;{[ northBoundingCoordinate]_ ↪[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↪[westBoundingCoordinate]}}; northBoundingCoordinate = northbc/text(); southBoundingCoordinate = southbc/text(); eastBoundingCoordinate = eastbc/text(); westBoundingCoordinate = westbc/text()  Processor: CommonRootSolrField Configuration: fgdc.geohash7 Notes: This bean uses a template populated from additional sources. See configuration for more details. Converter: GeohashConverter </pre>
<i>Index.geohash_8</i>	False		<pre> /*[local-name() = 'metadata']/idinfo/spdom/ ↪bounding -&gt;{[ northBoundingCoordinate]_ ↪[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↪[westBoundingCoordinate]}}; northBoundingCoordinate = northbc/text(); southBoundingCoordinate = southbc/text(); eastBoundingCoordinate = eastbc/text(); westBoundingCoordinate = westbc/text()  Processor: CommonRootSolrField Configuration: fgdc.geohash8 Notes: This bean uses a template populated from additional sources. See configuration for more details. Converter: GeohashConverter </pre>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_9</i>	False		<pre> /*[local-name() = 'metadata']/idinfo/spdom/ ↳bounding -&gt;{[[ northBoundingCoordinate]↳ ↳[southBoundingCoordinate] [ eastBoundingCoordinate]↳ ↳[westBoundingCoordinate]}}; northBoundingCoordinate = northbc/text(); southBoundingCoordinate = southbc/text(); eastBoundingCoordinate = eastbc/text(); westBoundingCoordinate = westbc/text()  Processor: CommonRootSolrField Configuration: fgdc.geohash9 Notes: This bean uses a template populated from additional sources. See configuration for more details. Converter: GeohashConverter </pre>

## 19.3 Bean Configurations

### 19.3.1 fgdc.abstract

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"↳
↳id="fgdc.abstract" class="org.dataone.cn.indexer.parser.MergeSolrField">
  <constructor-arg name="name" value="abstract"/>
  <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/idinfo/
↳descript/abstract/descendant::text()"/>
  <constructor-arg name="delimiter" value=" "/>
  <property name="multivalue" value="false"/>
  <property name="dedupe" value="false"/>
</bean>

```

### 19.3.2 fgdc.beginDate

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"↳
↳id="fgdc.beginDate" class="org.dataone.cn.indexer.parser.SolrField">
  <constructor-arg name="name" value="beginDate"/>
  <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/timeperd/timeinfo/rngdates/begdate/text()"/>
  <property name="multivalue" value="false"/>
  <property name="converter" ref="fgdcDateConverter"/>
</bean>

```

### 19.3.3 fgdc.contactOrganization

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.contactOrganization" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="contactOrganization"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳distinfo/distrib/cntinfo/cntperp/cntorg/text() | /*[local-name() = 'metadata']/
↳distinfo/distrib/cntinfo/cntorgp/cntorg/text()"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>
```

### 19.3.4 fgdc.eastBoundCoord

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.eastBoundCoord" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="eastBoundCoord"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/spdom/bounding/eastbc/text()"/>
    <property name="multivalue" value="false"/>
    <property name="converter" ref="solrLongitudeConverter"/>
</bean>
```

### 19.3.5 fgdc.westBoundCoord

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.westBoundCoord" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="westBoundCoord"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/spdom/bounding/westbc/text()"/>
    <property name="multivalue" value="false"/>
    <property name="converter" ref="solrLongitudeConverter"/>
</bean>
```

### 19.3.6 fgdc.northBoundCoord

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.northBoundCoord" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="northBoundCoord"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/spdom/bounding/northbc/text()"/>
    <property name="multivalue" value="false"/>
    <property name="converter" ref="solrLongitudeConverter"/>
</bean>
```

### 19.3.7 fgdc.southBoundCoord

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.southBoundCoord" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="southBoundCoord"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/spdom/bounding/southbc/text()"/>
    <property name="multivalue" value="false"/>
    <property name="converter" ref="solrLongitudeConverter"/>
</bean>
```

### 19.3.8 fgdc.edition

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.edition" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="edition"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/citeinfo/edition/text()"/>
    <property name="multivalue" value="false"/>
</bean>
```

### 19.3.9 fgdc.endDate

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.endDate" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="endDate"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/timeperd/timeinfo/rngdates/enddate/text()"/>
    <property name="multivalue" value="false"/>
    <property name="converter" ref="fgdcDateConverter"/>
</bean>
```

### 19.3.10 fgdc.gcmdKeyword

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.gcmdKeyword" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="gcmdKeyword"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/keywords/theme[themekt='GCMD Science Keywords']/themekey/text()"/>
    <property name="multivalue" value="true"/>
</bean>
```

### 19.3.11 fgdc.keywords

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.keywords" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="keywords"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/keywords/theme/themekey/text() | /*[local-name() = 'metadata']/idinfo/
↳keywords/place/placekey/text() "/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
    <property name="disallowedValues">
        <list>
            <value>none</value>
        </list>
    </property>
</bean>

```

### 19.3.12 fgdc.geoform

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.geoform" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="geoform"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/citation/citeinfo/geoform/text() "/>
    <property name="multivalue" value="false"/>
</bean>

```

### 19.3.13 fgdc.genus

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.genus" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="genus"/>
    <constructor-arg name="xpath" value="//taxoncl/taxonrv[../taxonrn=&quot;
↳Genus&quot;]/text() "/>
    <property name="multivalue" value="true"/>
</bean>

```

### 19.3.14 fgdc.kingdom

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.kingdom" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="kingdom"/>
    <constructor-arg name="xpath" value="//taxoncl/taxonrv[../taxonrn=&quot;
↳Kingdom&quot;]/text() "/>
    <property name="multivalue" value="true"/>
</bean>

```

### 19.3.15 fgdc.order

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.order" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="order"/>
    <constructor-arg name="xpath" value="//taxoncl/taxonrv[../taxonrn=&quot;
↳Order&quot;]/text()"/>
    <property name="multivalued" value="true"/>
</bean>
```

### 19.3.16 fgdc.phylum

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.phylum" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="phylum"/>
    <constructor-arg name="xpath" value="//taxoncl/taxonrv[../taxonrn=&quot;
↳Phylum&quot; | //taxoncl/taxonrv[../taxonrn=&quot;Division&quot;]/text()"/>
    <property name="multivalued" value="true"/>
</bean>
```

### 19.3.17 fgdc.species

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.species" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="species"/>
    <constructor-arg name="xpath" value="//taxoncl/taxonrv[../taxonrn=&quot;
↳Species&quot;]/text()"/>
    <property name="multivalued" value="true"/>
</bean>
```

### 19.3.18 fgdc.family

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.family" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="family"/>
    <constructor-arg name="xpath" value="//taxoncl/taxonrv[../taxonrn=&quot;
↳Family&quot;]/text()"/>
    <property name="multivalued" value="true"/>
</bean>
```

### 19.3.19 fgdc.class

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.class" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="class"/>
    <constructor-arg name="xpath" value="//taxoncl/taxonrv[../taxonrn=&quot;
↳Class&quot;]/text()"/>
    <property name="multivalue" value="true"/>
</bean>

```

### 19.3.20 fgdc.scientificName

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.scientificName" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="true" p:root-ref="fgdc.scientificNameRoot">
    <constructor-arg name="name" value="scientificName"/>
</bean>

```

### 19.3.21 fgdc.origin

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.origin" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="origin"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/citation/citeinfo/origin/text()"/>
    <property name="multivalue" value="true"/>
</bean>

```

### 19.3.22 fgdc.placeKey

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.placeKey" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="placeKey"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/keywords/place/placekey/text()"/>
    <property name="multivalue" value="true"/>
</bean>

```

### 19.3.23 fgdc.pubDate

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.pubDate" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="pubDate"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/citation/citeinfo/pubdate/text()"/>
    <property name="multivalue" value="false"/>

```

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```

    <property name="converter" ref="fgdcDateConverter"/>
</bean>

```

### 19.3.24 fgdc.purpose

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.purpose" class="org.dataone.cn.indexer.parser.MergeSolrField">
    <constructor-arg name="name" value="purpose"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/idinfo/
↳descript/purpose/descendant::text()"/>
    <constructor-arg name="delimiter" value=" "/>
    <property name="multivalue" value="false"/>
    <property name="dedupe" value="false"/>
</bean>

```

### 19.3.25 fgdc.title

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.title" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="title"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/citation/citeinfo/title/text()"/>
    <property name="multivalue" value="false"/>
</bean>

```

### 19.3.26 fgdc.web\_url

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.web_url" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="webUrl"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/citation/citeinfo/onlink/text()"/>
    <property name="multivalue" value="true"/>
</bean>

```

### 19.3.27 fgdc.fileID

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.fileID" class="org.dataone.cn.indexer.parser.ResolveSolrField">
    <constructor-arg name="name" value="fileID"/>
</bean>

```

### 19.3.28 fgdc.fullText

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.fullText" class="org.dataone.cn.indexer.parser.AggregateSolrField">
    <property name="name" value="text" />
    <property name="solrFields">
        <list>
            <ref bean="fgdc.text" />
        </list>
    </property>
</bean>
```

### 19.3.29 fgdc.presentationCat

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.presentationCat" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="presentationCat" />
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/citation/citeinfo/geoform/text()"/>
    <property name="multivalue" value="false" />
</bean>
```

### 19.3.30 fgdc.author

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.author" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="author" />
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/citation/citeinfo/origin/text()"/>
    <property name="multivalue" value="false" />
</bean>
```

### 19.3.31 fgdc.authorSurName

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.authorSurName" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="authorSurName" />
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/citation/citeinfo/origin[1]/text()"/>
    <property name="multivalue" value="false" />
</bean>
```

### 19.3.32 fgdc.authorSurNameSort



```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.authorSurNameSort" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="authorSurNameSort"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/citation/citeinfo/origin[1]/text()"/>
    <property name="multivalue" value="false"/>
</bean>

```

### 19.3.33 fgdc.investigator

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.investigator" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="investigator"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/citation/citeinfo/origin/text()"/>
    <property name="multivalue" value="true"/>
</bean>

```

### 19.3.34 fgdc.site

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.site" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="site"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/spdom/descgeog/text()"/>
    <property name="multivalue" value="true"/>
</bean>

```

### 19.3.35 fgdc.attributeName

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.attributeName" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="attributeName"/>
    <constructor-arg name="xpath" value="//attr/attrlabl/text()"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="false"/>
</bean>

```

### 19.3.36 fgdc.attributeLabel

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.attributeLabel" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="attributeLabel"/>
    <constructor-arg name="xpath" value="//attr/attalias/text()"/>

```

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```

    <property name="multivalue" value="true"/>
    <property name="dedupe" value="false"/>
</bean>

```

### 19.3.37 fgdc.attributeDescription

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.attributeDescription" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="attributeDescription"/>
    <constructor-arg name="xpath" value="//attr/attrdef/text()"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="false"/>
</bean>

```

### 19.3.38 fgdc.attributeUnit

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.attributeUnit" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="attributeUnit"/>
    <constructor-arg name="xpath" value="//attr/attrdomv//attrunit/text() | /
↳/attr//attrdomv//edomv/text()"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="false"/>
</bean>

```

### 19.3.39 fgdc.attributeText

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.attributeText" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="true" p:root-ref="fgdc.attributeTextRoot">
    <constructor-arg name="name" value="attribute"/>
</bean>

```

### 19.3.40 fgdc.geohash1

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.geohash1" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="false" p:root-ref="fgdc.geohashRoot">
    <constructor-arg name="name" value="geohash_1"/>
    <property name="converter" ref="geohashConverter_1"/>
</bean>

```

### 19.3.41 fgdc.geohash2

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.geohash2" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalued="false" p:root-ref="fgdc.geohashRoot">
    <constructor-arg name="name" value="geohash_2"/>
    <property name="converter" ref="geohashConverter_2"/>
</bean>
```

### 19.3.42 fgdc.geohash3

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.geohash3" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalued="false" p:root-ref="fgdc.geohashRoot">
    <constructor-arg name="name" value="geohash_3"/>
    <property name="converter" ref="geohashConverter_3"/>
</bean>
```

### 19.3.43 fgdc.geohash4

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.geohash4" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalued="false" p:root-ref="fgdc.geohashRoot">
    <constructor-arg name="name" value="geohash_4"/>
    <property name="converter" ref="geohashConverter_4"/>
</bean>
```

### 19.3.44 fgdc.geohash5

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.geohash5" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalued="false" p:root-ref="fgdc.geohashRoot">
    <constructor-arg name="name" value="geohash_5"/>
    <property name="converter" ref="geohashConverter_5"/>
</bean>
```

### 19.3.45 fgdc.geohash6

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.geohash6" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalued="false" p:root-ref="fgdc.geohashRoot">
    <constructor-arg name="name" value="geohash_6"/>
    <property name="converter" ref="geohashConverter_6"/>
</bean>
```

### 19.3.46 fgdc.geohash7

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.geohash7" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="false" p:root-ref="fgdc.geohashRoot">
    <constructor-arg name="name" value="geohash_7"/>
    <property name="converter" ref="geohashConverter_7"/>
</bean>
```

### 19.3.47 fgdc.geohash8

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.geohash8" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="false" p:root-ref="fgdc.geohashRoot">
    <constructor-arg name="name" value="geohash_8"/>
    <property name="converter" ref="geohashConverter_8"/>
</bean>
```

### 19.3.48 fgdc.geohash9

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.geohash9" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="false" p:root-ref="fgdc.geohashRoot">
    <constructor-arg name="name" value="geohash_9"/>
    <property name="converter" ref="geohashConverter_9"/>
</bean>
```

Describes parser configuration for: fgdcstd00121999Subprocessor

### 20.1 Format IDs Processed

This parser processes the following DataONE format IDs:

- Content Standard for Digital Geospatial Metadata, Metadata Profile for Shoreline Data, version 001.2-1999  
formatId: FGDC-STD-001.2-1999

A full list of DataONE format IDs can be found at <https://cn.dataone.org/cn/v2/formats/>

### 20.2 Fields

The following fields in the solr index are populated from values retrieved from this type of metadata document. Note that these are in addition to the information extracted from *System Metadata Parser*.

Solr Field	Multi	Dedupe	Source
<i>Index.abstract</i>	False	False	<pre>/*[[local-name() = 'metadata']/idinfo/descript/ ↳abstract/ descendant::text ()</pre> <p>Processor: MergeSolrField Configuration: <i>fgdc.abstract</i></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.beginDate</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/timeperd/ ↪timeinfo/ rngdates/begdate/text ()</pre> <p>Processor: SolrField  Configuration: <i>fgdc.beginDate</i>  Converter: FgdcDateConverter</p>
<i>Index.contactOrganization</i>	True	True	<pre>/*[local-name() = 'metadata']/distinfo/distrib/ ↪cntinfo/ cntperp/cntorg/text ()   /*[local-name() = 'metadata']/distinfo/distrib/cntinfo/cntorgp/ ↪cntorg/ text ()</pre> <p>Processor: SolrField  Configuration: <i>fgdc.contactOrganization</i></p>
<i>Index.eastBoundCoord</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/spdom/ ↪bounding/eastbc/ text ()</pre> <p>Processor: SolrField  Configuration: <i>fgdc.eastBoundCoord</i>  Converter: SolrLongitudeConverter</p>
<i>Index.westBoundCoord</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/spdom/ ↪bounding/westbc/ text ()</pre> <p>Processor: SolrField  Configuration: <i>fgdc.westBoundCoord</i>  Converter: SolrLongitudeConverter</p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.northBoundCoord</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/spdom/ ↳bounding/northbc/ text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.northBoundCoord</i> Converter: SolrLongitudeConverter</p>
<i>Index.southBoundCoord</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/spdom/ ↳bounding/southbc/ text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.southBoundCoord</i> Converter: SolrLongitudeConverter</p>
<i>Index.edition</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/citeinfo/ ↳edition/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.edition</i></p>
<i>Index.endDate</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/timeperd/ ↳timeinfo/ rngdates/enddate/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.endDate</i> Converter: FgdcDateConverter</p>
<i>Index.gcmdKeyword</i>	True	False	<pre>/*[local-name() = 'metadata']/idinfo/keywords/ ↳theme[themekt= 'GCMD Science Keywords']/themekey/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.gcmdKeyword</i></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.keywords</i>	True	True	<pre>/*[local-name() = 'metadata']/idinfo/keywords/ ↪theme/ themekey/text()   /*[local-name() = 'metadata']/ idinfo/keywords/place/placekey/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.keywords</i></p>
<i>Index.geoform</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/citation/ ↪citeinfo/ geoform/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.geoform</i></p>
<i>Index.genus</i>	True	False	<pre>//taxoncl/taxonrv[../taxonrn="Genus"]/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.genus</i></p>
<i>Index.kingdom</i>	True	False	<pre>//taxoncl/taxonrv[../taxonrn="Kingdom"]/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.kingdom</i></p>
<i>Index.order</i>	True	False	<pre>//taxoncl/taxonrv[../taxonrn="Order"]/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.order</i></p>
<i>Index.phylum</i>	True	False	<pre>//taxoncl/taxonrv[../taxonrn="Phylum"]/text()   ↪ ↪//taxoncl/ taxonrv[../taxonrn="Division"]/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.phylum</i></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.species</i>	True	False	<pre>//taxoncl/taxonrv[../taxonrn="Species"]/text ()</pre> <p>Processor: SolrField Configuration: <i>fgdc.species</i></p>
<i>Index.family</i>	True	False	<pre>//taxoncl/taxonrv[../taxonrn="Family"]/text ()</pre> <p>Processor: SolrField Configuration: <i>fgdc.family</i></p>
<i>Index.class</i>	True	False	<pre>//taxoncl/taxonrv[../taxonrn="Class"]/text ()</pre> <p>Processor: SolrField Configuration: <i>fgdc.class</i></p>
<i>Index.scientificName</i>	False		<pre>//taxoncl/taxonrv[../taxonrn="Genus"] -&gt;{   ↳{[genus] [species] }}; genus = ../taxonrv/text (); species = ↳taxonrv/ text ()</pre> <p>Processor: CommonRootSolrField Configuration: <i>fgdc.scientificName</i> Notes: This bean uses a template populated from additional sources. See configuration for more details.</p>
<i>Index.origin</i>	True	False	<pre>/*[local-name() = 'metadata']/idinfo/citation/ ↳citeinfo/ origin/text ()</pre> <p>Processor: SolrField Configuration: <i>fgdc.origin</i></p>
<i>Index.placeKey</i>	True	False	<pre>/*[local-name() = 'metadata']/idinfo/keywords/ ↳place/ placekey/text ()</pre> <p>Processor: SolrField Configuration: <i>fgdc.placeKey</i></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.pubDate</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/citation/ ↪citeinfo/ pubdate/text()</pre> <p>Processor: SolrField            Configuration: <i>fgdc.pubDate</i>            Converter: FgdcDateConverter</p>
<i>Index.purpose</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/descript/ ↪purpose/ descendant::text()</pre> <p>Processor: MergeSolrField            Configuration: <i>fgdc.purpose</i></p>
<i>Index.title</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/citation/ ↪citeinfo/ title/text()</pre> <p>Processor: SolrField            Configuration: <i>fgdc.title</i></p>
<i>Index.webUrl</i>	True	False	<pre>/*[local-name() = 'metadata']/idinfo/citation/ ↪citeinfo/ onlink/text()</pre> <p>Processor: SolrField            Configuration: <i>fgdc.web_url</i></p>
<i>Index.fileID</i>			<p>Processor: ResolveSolrField            Configuration: <i>fgdc.fileID</i>            Notes: SolrField which configures the resolve url for the document being processed.            Converter:</p>
<i>Index.text</i>			<p>Processor: AggregateSolrField            Configuration: <i>fgdc.fullText</i>            Converter:</p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.presentationCat</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/citation/ ↪citeinfo/ geoform/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.presentationCat</i></p>
<i>Index.author</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/citation/ ↪citeinfo/ origin/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.author</i></p>
<i>Index.authorSurName</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/citation/ ↪citeinfo/ origin[1]/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.authorSurName</i></p>
<i>Index.authorSurNameSort</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/citation/ ↪citeinfo/ origin[1]/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.authorSurNameSort</i></p>
<i>Index.investigator</i>	True	False	<pre>/*[local-name() = 'metadata']/idinfo/citation/ ↪citeinfo/ origin/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.investigator</i></p>
<i>Index.site</i>	True	False	<pre>/*[local-name() = 'metadata']/idinfo/spdom/ ↪descgeog/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.site</i></p>

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Table 1 – continued from previous page

Solr Field	Multi	Duplicate Source	Source
<i>Index.attributeName</i>	True	False	<pre>//attr/attrlabl/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.attributeName</i></p>
<i>Index.attributeLabel</i>	True	False	<pre>//attr/attalias/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.attributeLabel</i></p>
<i>Index.attributeDescription</i>	True	False	<pre>//attr/attrdef/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.attributeDescription</i></p>
<i>Index.attributeUnit</i>	True	False	<pre>//attr/attrdomv//attrunit/text()   //attr// ↪attrdomv//edomv/ text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.attributeUnit</i></p>
<i>Index.attribute</i>	False		<pre>//attr -&gt;{{[attributeName] [attributeLabel] [ attributeDescription] [attributeUnit]}}; attributeName = attrlabl/text(); attributeLabel_ ↪= attalias/text(); attributeDescription = attrdef/ text(); attributeUnit = attrdomv//attrunit/ ↪text()   .//attrdomv//edomv/text()</pre> <p>Processor: CommonRootSolrField Configuration: <i>fgdc.attributeText</i> Notes: This bean uses a template populated from additional sources. See configuration for more details.</p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_1</i>	False		<pre> /*[local-name() = 'metadata']/idinfo/spdom/ ↪bounding -&gt;{[ northBoundingCoordinate] ↪[southBoundingCoordinate] [ eastBoundingCoordinate] ↪[westBoundingCoordinate]}}; northBoundingCoordinate = northbc/text(); southBoundingCoordinate = southbc/text(); eastBoundingCoordinate = eastbc/text(); westBoundingCoordinate = westbc/text()  Processor: <a href="#">CommonRootSolrField</a> Configuration: <i>fgdc.geohash1</i> Notes: This bean uses a template populated from additional sources. See configuration for more details. Converter: <a href="#">GeohashConverter</a> </pre>
<i>Index.geohash_2</i>	False		<pre> /*[local-name() = 'metadata']/idinfo/spdom/ ↪bounding -&gt;{[ northBoundingCoordinate] ↪[southBoundingCoordinate] [ eastBoundingCoordinate] ↪[westBoundingCoordinate]}}; northBoundingCoordinate = northbc/text(); southBoundingCoordinate = southbc/text(); eastBoundingCoordinate = eastbc/text(); westBoundingCoordinate = westbc/text()  Processor: <a href="#">CommonRootSolrField</a> Configuration: <i>fgdc.geohash2</i> Notes: This bean uses a template populated from additional sources. See configuration for more details. Converter: <a href="#">GeohashConverter</a> </pre>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_3</i>	False		<pre> /*[local-name() = 'metadata']/idinfo/spdom/ ↪bounding -&gt;{[ northBoundingCoordinate]_ ↪[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↪[westBoundingCoordinate]}}; northBoundingCoordinate = northbc/text(); southBoundingCoordinate = southbc/text(); eastBoundingCoordinate = eastbc/text(); westBoundingCoordinate = westbc/text()  Processor: CommonRootSolrField Configuration: fgdc.geohash3 Notes: This bean uses a template populated from additional sources. See configuration for more details. Converter: GeohashConverter </pre>
<i>Index.geohash_4</i>	False		<pre> /*[local-name() = 'metadata']/idinfo/spdom/ ↪bounding -&gt;{[ northBoundingCoordinate]_ ↪[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↪[westBoundingCoordinate]}}; northBoundingCoordinate = northbc/text(); southBoundingCoordinate = southbc/text(); eastBoundingCoordinate = eastbc/text(); westBoundingCoordinate = westbc/text()  Processor: CommonRootSolrField Configuration: fgdc.geohash4 Notes: This bean uses a template populated from additional sources. See configuration for more details. Converter: GeohashConverter </pre>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_5</i>	False		<pre> /*[local-name() = 'metadata']/idinfo/spdom/ ↪bounding -&gt;{[ northBoundingCoordinate]_ ↪[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↪[westBoundingCoordinate]}}; northBoundingCoordinate = northbc/text(); southBoundingCoordinate = southbc/text(); eastBoundingCoordinate = eastbc/text(); westBoundingCoordinate = westbc/text()  Processor: <a href="#">CommonRootSolrField</a> Configuration: <i>fgdc.geohash5</i> Notes: This bean uses a template populated from additional sources. See configuration for more details. Converter: <a href="#">GeohashConverter</a> </pre>
<i>Index.geohash_6</i>	False		<pre> /*[local-name() = 'metadata']/idinfo/spdom/ ↪bounding -&gt;{[ northBoundingCoordinate]_ ↪[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↪[westBoundingCoordinate]}}; northBoundingCoordinate = northbc/text(); southBoundingCoordinate = southbc/text(); eastBoundingCoordinate = eastbc/text(); westBoundingCoordinate = westbc/text()  Processor: <a href="#">CommonRootSolrField</a> Configuration: <i>fgdc.geohash6</i> Notes: This bean uses a template populated from additional sources. See configuration for more details. Converter: <a href="#">GeohashConverter</a> </pre>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_7</i>	False		<pre> /*[local-name() = 'metadata']/idinfo/spdom/ ↪bounding -&gt;{[ northBoundingCoordinate] ↪[southBoundingCoordinate] [ eastBoundingCoordinate] ↪[westBoundingCoordinate]}}; northBoundingCoordinate = northbc/text(); southBoundingCoordinate = southbc/text(); eastBoundingCoordinate = eastbc/text(); westBoundingCoordinate = westbc/text()  Processor: CommonRootSolrField Configuration: fgdc.geohash7 Notes: This bean uses a template populated from additional sources. See configuration for more details. Converter: GeohashConverter </pre>
<i>Index.geohash_8</i>	False		<pre> /*[local-name() = 'metadata']/idinfo/spdom/ ↪bounding -&gt;{[ northBoundingCoordinate] ↪[southBoundingCoordinate] [ eastBoundingCoordinate] ↪[westBoundingCoordinate]}}; northBoundingCoordinate = northbc/text(); southBoundingCoordinate = southbc/text(); eastBoundingCoordinate = eastbc/text(); westBoundingCoordinate = westbc/text()  Processor: CommonRootSolrField Configuration: fgdc.geohash8 Notes: This bean uses a template populated from additional sources. See configuration for more details. Converter: GeohashConverter </pre>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_9</i>	False		<pre> /*[local-name() = 'metadata']/idinfo/spdom/ ↳bounding -&gt;{[[ northBoundingCoordinate]↳ ↳[southBoundingCoordinate] [ eastBoundingCoordinate]↳ ↳[westBoundingCoordinate]}}; northBoundingCoordinate = northbc/text(); southBoundingCoordinate = southbc/text(); eastBoundingCoordinate = eastbc/text(); westBoundingCoordinate = westbc/text()  Processor: CommonRootSolrField Configuration: fgdc.geohash9 Notes: This bean uses a template populated from additional sources. See configuration for more details. Converter: GeohashConverter </pre>

## 20.3 Bean Configurations

### 20.3.1 fgdc.abstract

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.abstract" class="org.dataone.cn.indexer.parser.MergeSolrField">
  <constructor-arg name="name" value="abstract"/>
  <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/idinfo/
↳descript/abstract/descendant::text()"/>
  <constructor-arg name="delimiter" value=" "/>
  <property name="multivalued" value="false"/>
  <property name="dedupe" value="false"/>
</bean>

```

### 20.3.2 fgdc.beginDate

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.beginDate" class="org.dataone.cn.indexer.parser.SolrField">
  <constructor-arg name="name" value="beginDate"/>
  <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/timeperd/timeinfo/rngdates/begdate/text()"/>
  <property name="multivalued" value="false"/>
  <property name="converter" ref="fgdcDateConverter"/>
</bean>

```

### 20.3.3 fgdc.contactOrganization

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.contactOrganization" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="contactOrganization"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳distinfo/distrib/cntinfo/cntperp/cntorg/text() | /*[local-name() = 'metadata']/
↳distinfo/distrib/cntinfo/cntorgp/cntorg/text()"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>
```

### 20.3.4 fgdc.eastBoundCoord

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.eastBoundCoord" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="eastBoundCoord"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/spdom/bounding/eastbc/text()"/>
    <property name="multivalue" value="false"/>
    <property name="converter" ref="solrLongitudeConverter"/>
</bean>
```

### 20.3.5 fgdc.westBoundCoord

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.westBoundCoord" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="westBoundCoord"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/spdom/bounding/westbc/text()"/>
    <property name="multivalue" value="false"/>
    <property name="converter" ref="solrLongitudeConverter"/>
</bean>
```

### 20.3.6 fgdc.northBoundCoord

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.northBoundCoord" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="northBoundCoord"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/spdom/bounding/northbc/text()"/>
    <property name="multivalue" value="false"/>
    <property name="converter" ref="solrLongitudeConverter"/>
</bean>
```

### 20.3.7 fgdc.southBoundCoord

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.southBoundCoord" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="southBoundCoord"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/spdom/bounding/southbc/text()"/>
    <property name="multivalue" value="false"/>
    <property name="converter" ref="solrLongitudeConverter"/>
</bean>
```

### 20.3.8 fgdc.edition

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.edition" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="edition"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/citeinfo/edition/text()"/>
    <property name="multivalue" value="false"/>
</bean>
```

### 20.3.9 fgdc.endDate

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.endDate" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="endDate"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/timeperd/timeinfo/rngdates/enddate/text()"/>
    <property name="multivalue" value="false"/>
    <property name="converter" ref="fgdcDateConverter"/>
</bean>
```

### 20.3.10 fgdc.gcmdKeyword

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.gcmdKeyword" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="gcmdKeyword"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/keywords/theme[themekt='GCMD Science Keywords']/themekey/text()"/>
    <property name="multivalue" value="true"/>
</bean>
```

### 20.3.11 fgdc.keywords

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.keywords" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="keywords"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/keywords/theme/themekey/text() | /*[local-name() = 'metadata']/idinfo/
↳keywords/place/placekey/text() "/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
    <property name="disallowedValues">
        <list>
            <value>none</value>
        </list>
    </property>
</bean>

```

### 20.3.12 fgdc.geoform

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.geoform" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="geoform"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/citation/citeinfo/geoform/text() "/>
    <property name="multivalue" value="false"/>
</bean>

```

### 20.3.13 fgdc.genus

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.genus" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="genus"/>
    <constructor-arg name="xpath" value="//taxoncl/taxonrv[../taxonrn=&quot;
↳Genus&quot;]/text() "/>
    <property name="multivalue" value="true"/>
</bean>

```

### 20.3.14 fgdc.kingdom

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.kingdom" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="kingdom"/>
    <constructor-arg name="xpath" value="//taxoncl/taxonrv[../taxonrn=&quot;
↳Kingdom&quot;]/text() "/>
    <property name="multivalue" value="true"/>
</bean>

```

### 20.3.15 fgdc.order

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.order" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="order"/>
    <constructor-arg name="xpath" value="//taxoncl/taxonrv[../taxonrn=&quot;
↳Order&quot;]/text()"/>
    <property name="multivalued" value="true"/>
</bean>
```

### 20.3.16 fgdc.phylum

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.phylum" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="phylum"/>
    <constructor-arg name="xpath" value="//taxoncl/taxonrv[../taxonrn=&quot;
↳Phylum&quot; | //taxoncl/taxonrv[../taxonrn=&quot;Division&quot;]/text()"/>
    <property name="multivalued" value="true"/>
</bean>
```

### 20.3.17 fgdc.species

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.species" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="species"/>
    <constructor-arg name="xpath" value="//taxoncl/taxonrv[../taxonrn=&quot;
↳Species&quot;]/text()"/>
    <property name="multivalued" value="true"/>
</bean>
```

### 20.3.18 fgdc.family

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.family" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="family"/>
    <constructor-arg name="xpath" value="//taxoncl/taxonrv[../taxonrn=&quot;
↳Family&quot;]/text()"/>
    <property name="multivalued" value="true"/>
</bean>
```

### 20.3.19 fgdc.class

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.class" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="class"/>
    <constructor-arg name="xpath" value="//taxoncl/taxonrv[../taxonrn=&quot;
↳Class&quot;]/text()"/>
    <property name="multivalue" value="true"/>
</bean>

```

### 20.3.20 fgdc.scientificName

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.scientificName" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="true" p:root-ref="fgdc.scientificNameRoot">
    <constructor-arg name="name" value="scientificName"/>
</bean>

```

### 20.3.21 fgdc.origin

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.origin" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="origin"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/citation/citeinfo/origin/text()"/>
    <property name="multivalue" value="true"/>
</bean>

```

### 20.3.22 fgdc.placeKey

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.placeKey" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="placeKey"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/keywords/place/placekey/text()"/>
    <property name="multivalue" value="true"/>
</bean>

```

### 20.3.23 fgdc.pubDate

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.pubDate" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="pubDate"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/citation/citeinfo/pubdate/text()"/>
    <property name="multivalue" value="false"/>

```

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```

    <property name="converter" ref="fgdcDateConverter"/>
</bean>

```

### 20.3.24 fgdc.purpose

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.purpose" class="org.dataone.cn.indexer.parser.MergeSolrField">
    <constructor-arg name="name" value="purpose"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/idinfo/
↳descript/purpose/descendant::text()"/>
    <constructor-arg name="delimiter" value=" "/>
    <property name="multivalue" value="false"/>
    <property name="dedupe" value="false"/>
</bean>

```

### 20.3.25 fgdc.title

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.title" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="title"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/citation/citeinfo/title/text()"/>
    <property name="multivalue" value="false"/>
</bean>

```

### 20.3.26 fgdc.web\_url

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.web_url" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="webUrl"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/citation/citeinfo/onlink/text()"/>
    <property name="multivalue" value="true"/>
</bean>

```

### 20.3.27 fgdc.fileID

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.fileID" class="org.dataone.cn.indexer.parser.ResolveSolrField">
    <constructor-arg name="name" value="fileID"/>
</bean>

```

### 20.3.28 fgdc.fullText

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.fullText" class="org.dataone.cn.indexer.parser.AggregateSolrField">
    <property name="name" value="text" />
    <property name="solrFields">
        <list>
            <ref bean="fgdc.text" />
        </list>
    </property>
</bean>
```

### 20.3.29 fgdc.presentationCat

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.presentationCat" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="presentationCat" />
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/citation/citeinfo/geoform/text()" />
    <property name="multivalue" value="false" />
</bean>
```

### 20.3.30 fgdc.author

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.author" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="author" />
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/citation/citeinfo/origin/text()" />
    <property name="multivalue" value="false" />
</bean>
```

### 20.3.31 fgdc.authorSurName

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.authorSurName" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="authorSurName" />
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/citation/citeinfo/origin[1]/text()" />
    <property name="multivalue" value="false" />
</bean>
```

### 20.3.32 fgdc.authorSurNameSort



```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.authorSurNameSort" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="authorSurNameSort"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/citation/citeinfo/origin[1]/text()"/>
    <property name="multivalue" value="false"/>
</bean>

```

### 20.3.33 fgdc.investigator

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.investigator" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="investigator"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/citation/citeinfo/origin/text()"/>
    <property name="multivalue" value="true"/>
</bean>

```

### 20.3.34 fgdc.site

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.site" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="site"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/spdom/descgeog/text()"/>
    <property name="multivalue" value="true"/>
</bean>

```

### 20.3.35 fgdc.attributeName

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.attributeName" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="attributeName"/>
    <constructor-arg name="xpath" value="//attr/attrlabl/text()"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="false"/>
</bean>

```

### 20.3.36 fgdc.attributeLabel

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.attributeLabel" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="attributeLabel"/>
    <constructor-arg name="xpath" value="//attr/attalias/text()"/>

```

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```

    <property name="multivalue" value="true"/>
    <property name="dedupe" value="false"/>
</bean>

```

### 20.3.37 fgdc.attributeDescription

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.attributeDescription" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="attributeDescription"/>
    <constructor-arg name="xpath" value="//attr/attrdef/text()"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="false"/>
</bean>

```

### 20.3.38 fgdc.attributeUnit

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.attributeUnit" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="attributeUnit"/>
    <constructor-arg name="xpath" value="//attr/attrdomv//attrunit/text() | /
↳/attr//attrdomv//edomv/text()"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="false"/>
</bean>

```

### 20.3.39 fgdc.attributeText

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.attributeText" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="true" p:root-ref="fgdc.attributeTextRoot">
    <constructor-arg name="name" value="attribute"/>
</bean>

```

### 20.3.40 fgdc.geohash1

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.geohash1" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="false" p:root-ref="fgdc.geohashRoot">
    <constructor-arg name="name" value="geohash_1"/>
    <property name="converter" ref="geohashConverter_1"/>
</bean>

```

### 20.3.41 fgdc.geohash2

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.geohash2" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalued="false" p:root-ref="fgdc.geohashRoot">
    <constructor-arg name="name" value="geohash_2"/>
    <property name="converter" ref="geohashConverter_2"/>
</bean>
```

### 20.3.42 fgdc.geohash3

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.geohash3" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalued="false" p:root-ref="fgdc.geohashRoot">
    <constructor-arg name="name" value="geohash_3"/>
    <property name="converter" ref="geohashConverter_3"/>
</bean>
```

### 20.3.43 fgdc.geohash4

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.geohash4" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalued="false" p:root-ref="fgdc.geohashRoot">
    <constructor-arg name="name" value="geohash_4"/>
    <property name="converter" ref="geohashConverter_4"/>
</bean>
```

### 20.3.44 fgdc.geohash5

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.geohash5" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalued="false" p:root-ref="fgdc.geohashRoot">
    <constructor-arg name="name" value="geohash_5"/>
    <property name="converter" ref="geohashConverter_5"/>
</bean>
```

### 20.3.45 fgdc.geohash6

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.geohash6" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalued="false" p:root-ref="fgdc.geohashRoot">
    <constructor-arg name="name" value="geohash_6"/>
    <property name="converter" ref="geohashConverter_6"/>
</bean>
```

### 20.3.46 fgdc.geohash7

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.geohash7" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="false" p:root-ref="fgdc.geohashRoot">
    <constructor-arg name="name" value="geohash_7"/>
    <property name="converter" ref="geohashConverter_7"/>
</bean>
```

### 20.3.47 fgdc.geohash8

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.geohash8" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="false" p:root-ref="fgdc.geohashRoot">
    <constructor-arg name="name" value="geohash_8"/>
    <property name="converter" ref="geohashConverter_8"/>
</bean>
```

### 20.3.48 fgdc.geohash9

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.geohash9" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="false" p:root-ref="fgdc.geohashRoot">
    <constructor-arg name="name" value="geohash_9"/>
    <property name="converter" ref="geohashConverter_9"/>
</bean>
```

---

## ISO TC-211, NOAA Variant

---

Describes parser configuration for: isotc211NoaaSubprocessor

### 21.1 Format IDs Processed

This parser processes the following DataONE format IDs:

- NOAA Variant Geographic MetaData (GMD) Extensible Markup Language  
formatId: <http://www.isotc211.org/2005/gmd-noaa>

A full list of DataONE format IDs can be found at <https://cn.dataone.org/cn/v2/formats/>

### 21.2 Fields

The following fields in the solr index are populated from values retrieved from this type of metadata document. Note that these are in addition to the information extracted from *System Metadata Parser*.

Solr Field	Multi	Dedupe	Source
<i>Index.abstract</i>	False	False	<pre>//gmd:identificationInfo/gmd:MD_ ↔DataIdentification/ gmd:abstract/gco:CharacterString/text ()</pre> <p>Processor: SolrField Configuration: <i>isotc.abstract</i></p>

Continued on next page

Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.author</i>	False	False	<pre>(//gmd:CI_ResponsibleParty/gmd:individualName/ gco:CharacterString/text()   // gmd:CI_ResponsibleParty/gmd:individualName/ gmx:Anchor/text())[1]</pre> <p>Processor: SolrField Configuration: <i>isotc.author</i></p>
<i>Index.authorSurName</i>	False	False	<pre>(//gmd:CI_ResponsibleParty/gmd:individualName/ gco:CharacterString/text()   // gmd:CI_ResponsibleParty/gmd:individualName/ gmx:Anchor/text())[1]</pre> <p>Processor: SolrField Configuration: <i>isotc.authorSurName</i></p>
<i>Index.authorSurNameSort</i>	False	False	<pre>(//gmd:CI_ResponsibleParty/gmd:individualName/ gco:CharacterString/text()   // gmd:CI_ResponsibleParty/gmd:individualName/ gmx:Anchor/text())[1]</pre> <p>Processor: SolrField Configuration: <i>isotc.authorSurNameSort</i></p>
<i>Index.contactOrganization</i>	False	False	<pre>(//gmd:CI_ResponsibleParty/gmd:organisationName/ gco:CharacterString/text())[1]</pre> <p>Processor: SolrField Configuration: <i>isotc.contactOrganization</i></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.origin</i>	True	True	<pre>//gmd:CI_ResponsibleParty[gmd:role/gmd:CI_ ↪RoleCode/text() = "owner" or gmd:role/gmd:CI_RoleCode/text() = "originator" or gmd:role/gmd:CI_RoleCode/text() ↪= "principalInvestigator" or gmd:role/gmd:CI_ ↪RoleCode/ text() = "author"]/gmd:individualName/ gco:CharacterString/text()   // gmd:CI_ResponsibleParty[(gmd:role/gmd:CI_ ↪RoleCode/ text() = "owner" or gmd:role/gmd:CI_RoleCode/ ↪text() = "originator" or gmd:role/gmd:CI_RoleCode/ ↪text() = "principalInvestigator" or gmd:role/gmd:CI_ ↪RoleCode/ text() = "author") and (not(gmd:individualName) ↪or gmd:individualName[@gco:nilReason = "missing ↪"])]/ gmd:organisationName/gco:CharacterString/text()</pre> <p>Processor: SolrField Configuration: <i>isotc.origin</i></p>
<i>Index.investigator</i>	True	True	<pre>//gmd:CI_ResponsibleParty/gmd:individualName/ gco:CharacterString/text()   // gmd:CI_ResponsibleParty/gmd:individualName/ gmx:Anchor/text()</pre> <p>Processor: SolrField Configuration: <i>isotc.investigator</i></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.pubDate</i>	False	False	<pre> <b>if</b> (//gmd:identificationInfo/*/gmd:citation/ ↪gmd:CI_Citation/ gmd:date/gmd:CI_Date/gmd:date[ following-sibling::gmd:dateType/gmd:CI_ ↪DateTypeCode/ text() = 'publication']/gco:Date/text())     then //gmd:identificationInfo/*/ ↪gmd:citation/ gmd:CI_Citation/gmd:date/gmd:CI_Date/gmd:date[ following-sibling::gmd:dateType/gmd:CI_ ↪DateTypeCode/ text() = 'publication']/gco:Date/text() <b>else if</b> (//gmd:identificationInfo/*/ ↪gmd:citation/ gmd:CI_Citation/gmd:date/gmd:CI_Date/gmd:date[ following-sibling::gmd:dateType/gmd:CI_ ↪DateTypeCode/ text() = 'publication']/gco:DateTime/text())     then //gmd:identificationInfo/*/ gmd:citation/gmd:CI_Citation/gmd:date/gmd:CI_ ↪Date/ gmd:date[following-sibling::gmd:dateType/ gmd:CI_DateTypeCode/text() = 'publication']/ gco:DateTime/text()     <b>else if</b> (// gmd:identificationInfo/*/gmd:citation/ gmd:CI_Citation/gmd:date/gmd:CI_Date/gmd:date/ gco:Date[1]/text())         then // gmd:identificationInfo/*/gmd:citation/ gmd:CI_Citation/gmd:date/gmd:CI_Date/gmd:date/ gco:Date[1]/text()     <b>else if</b> (// gmd:identificationInfo/*/gmd:citation/ gmd:CI_Citation/gmd:date/gmd:CI_Date/gmd:date/ gco:DateTime[1]/text())         then // gmd:identificationInfo/*/gmd:citation/ gmd:CI_Citation/gmd:date/gmd:CI_Date/gmd:date/ gco:DateTime[1]/text()     <b>else</b> ()  Processor: SolrField Configuration: <i>isotc.pubDate</i> Converter: SolrDateConverter </pre>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.beginDate</i>	False	False	<pre>//gmd:identificationInfo/gmd:MD_ ↪DataIdentification/ gmd:extent/gmd:EX_Extent/gmd:temporalElement/ gmd:EX_TemporalExtent/gmd:extent/*[local-name() = ↪= 'TimePeriod']/*[local-name() = 'beginPosition']/ text()</pre> <p>Processor: SolrField Configuration: <i>isotc.beginDate</i> Converter: SolrDateConverter</p>
<i>Index.endDate</i>	False	False	<pre>//gmd:identificationInfo/gmd:MD_ ↪DataIdentification/ gmd:extent/gmd:EX_Extent/gmd:temporalElement/ gmd:EX_TemporalExtent/gmd:extent/*[local-name() = ↪= 'TimePeriod']/*[local-name() = 'endPosition']/ ↪text()</pre> <p>Processor: SolrField Configuration: <i>isotc.endDate</i> Converter: SolrDateConverter</p>
<i>Index.title</i>	False	False	<pre>//gmd:identificationInfo/gmd:MD_ ↪DataIdentification/ gmd:citation/gmd:CI_Citation/gmd:title/ gco:CharacterString/text()   // gmd:identificationInfo/gmd:MD_ ↪DataIdentification/ gmd:citation/gmd:CI_Citation/gmd:title/ ↪gmx:Anchor/ text()</pre> <p>Processor: SolrField Configuration: <i>isotc.title</i></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.keywords</i>	True	False	<pre>//gmd:identificationInfo/gmd:MD_ ↔DataIdentification/ gmd:descriptiveKeywords/gmd:MD_Keywords/ ↔gmd:keyword/ gmx:Anchor/text ()   //gmd:identificationInfo/ gmd:MD_DataIdentification/ ↔gmd:descriptiveKeywords/ gmd:MD_Keywords/gmd:keyword/gco:CharacterString/ text ()</pre> <p>Processor: SolrField Configuration: <i>isotc.keywords</i></p>
<i>Index.eastBoundCoord</i>	False	False	<pre>//gmd:identificationInfo/gmd:MD_ ↔DataIdentification/ gmd:extent/gmd:EX_Extent/gmd:geographicElement/ gmd:EX_GeographicBoundingBox/ ↔gmd:eastBoundLongitude/ gco:Decimal/text ()</pre> <p>Processor: SolrField Configuration: <i>isotc.eastBoundCoord</i></p>
<i>Index.westBoundCoord</i>	False	False	<pre>//gmd:identificationInfo/gmd:MD_ ↔DataIdentification/ gmd:extent/gmd:EX_Extent/gmd:geographicElement/ gmd:EX_GeographicBoundingBox/ ↔gmd:westBoundLongitude/ gco:Decimal/text ()</pre> <p>Processor: SolrField Configuration: <i>isotc.westBoundCoord</i></p>
<i>Index.southBoundCoord</i>	False	False	<pre>//gmd:identificationInfo/gmd:MD_ ↔DataIdentification/ gmd:extent/gmd:EX_Extent/gmd:geographicElement/ gmd:EX_GeographicBoundingBox/ ↔gmd:southBoundLatitude/ gco:Decimal/text ()</pre> <p>Processor: SolrField Configuration: <i>isotc.southBoundCoord</i></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.northBoundCoord</i>	False	False	<pre>//gmd:identificationInfo/gmd:MD_ ↳DataIdentification/ gmd:extent/gmd:EX_Extent/gmd:geographicElement/ gmd:EX_GeographicBoundingBox/ ↳gmd:northBoundLatitude/ gco:Decimal/text()</pre> <p>Processor: <a href="#">SolrField</a>  Configuration: <i>isotc.northBoundCoord</i></p>
<i>Index.geohash_9</i>	False		<pre>//gmd:identificationInfo/gmd:MD_ ↳DataIdentification/ gmd:extent/gmd:EX_Extent/gmd:geographicElement/ gmd:EX_GeographicBoundingBox -&gt;{[[ northBoundingCoordinate]_ ↳[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↳[westBoundingCoordinate]}}; northBoundingCoordinate =_ ↳gmd:northBoundLatitude/ gco:Decimal/text(); southBoundingCoordinate = gmd:southBoundLatitude/gco:Decimal/text(); eastBoundingCoordinate = gmd:eastBoundLongitude/ gco:Decimal/text(); westBoundingCoordinate = gmd:westBoundLongitude/gco:Decimal/text()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>isotc.geohash9</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_1</i>	False		<pre>//gmd:identificationInfo/gmd:MD_ ↔DataIdentification/ gmd:extent/gmd:EX_Extent/gmd:geographicElement/ gmd:EX_GeographicBoundingBox -&gt;{[[ northBoundingCoordinate]_ ↔[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↔[westBoundingCoordinate]}}; northBoundingCoordinate =_ ↔gmd:northBoundLatitude/ gco:Decimal/text (); southBoundingCoordinate = gmd:southBoundLatitude/gco:Decimal/text (); eastBoundingCoordinate = gmd:eastBoundLongitude/ gco:Decimal/text (); westBoundingCoordinate = gmd:westBoundLongitude/gco:Decimal/text ()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>isotc.geohash1</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>
<i>Index.geohash_2</i>	False		<pre>//gmd:identificationInfo/gmd:MD_ ↔DataIdentification/ gmd:extent/gmd:EX_Extent/gmd:geographicElement/ gmd:EX_GeographicBoundingBox -&gt;{[[ northBoundingCoordinate]_ ↔[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↔[westBoundingCoordinate]}}; northBoundingCoordinate =_ ↔gmd:northBoundLatitude/ gco:Decimal/text (); southBoundingCoordinate = gmd:southBoundLatitude/gco:Decimal/text (); eastBoundingCoordinate = gmd:eastBoundLongitude/ gco:Decimal/text (); westBoundingCoordinate = gmd:westBoundLongitude/gco:Decimal/text ()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>isotc.geohash2</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_3</i>	False		<pre>//gmd:identificationInfo/gmd:MD_ ↔DataIdentification/ gmd:extent/gmd:EX_Extent/gmd:geographicElement/ gmd:EX_GeographicBoundingBox -&gt;{[[ northBoundingCoordinate]_ ↔[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↔[westBoundingCoordinate]}}; northBoundingCoordinate =_ ↔gmd:northBoundLatitude/ gco:Decimal/text(); southBoundingCoordinate = gmd:southBoundLatitude/gco:Decimal/text(); eastBoundingCoordinate = gmd:eastBoundLongitude/ gco:Decimal/text(); westBoundingCoordinate = gmd:westBoundLongitude/gco:Decimal/text()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>isotc.geohash3</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>
<i>Index.geohash_4</i>	False		<pre>//gmd:identificationInfo/gmd:MD_ ↔DataIdentification/ gmd:extent/gmd:EX_Extent/gmd:geographicElement/ gmd:EX_GeographicBoundingBox -&gt;{[[ northBoundingCoordinate]_ ↔[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↔[westBoundingCoordinate]}}; northBoundingCoordinate =_ ↔gmd:northBoundLatitude/ gco:Decimal/text(); southBoundingCoordinate = gmd:southBoundLatitude/gco:Decimal/text(); eastBoundingCoordinate = gmd:eastBoundLongitude/ gco:Decimal/text(); westBoundingCoordinate = gmd:westBoundLongitude/gco:Decimal/text()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>isotc.geohash4</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_5</i>	False		<pre>//gmd:identificationInfo/gmd:MD_ ↔DataIdentification/ gmd:extent/gmd:EX_Extent/gmd:geographicElement/ gmd:EX_GeographicBoundingBox -&gt;{[[ northBoundingCoordinate]_ ↔[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↔[westBoundingCoordinate]}}; northBoundingCoordinate =_ ↔gmd:northBoundLatitude/ gco:Decimal/text(); southBoundingCoordinate = gmd:southBoundLatitude/gco:Decimal/text(); eastBoundingCoordinate = gmd:eastBoundLongitude/ gco:Decimal/text(); westBoundingCoordinate = gmd:westBoundLongitude/gco:Decimal/text()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>isotc.geohash5</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>
<i>Index.geohash_6</i>	False		<pre>//gmd:identificationInfo/gmd:MD_ ↔DataIdentification/ gmd:extent/gmd:EX_Extent/gmd:geographicElement/ gmd:EX_GeographicBoundingBox -&gt;{[[ northBoundingCoordinate]_ ↔[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↔[westBoundingCoordinate]}}; northBoundingCoordinate =_ ↔gmd:northBoundLatitude/ gco:Decimal/text(); southBoundingCoordinate = gmd:southBoundLatitude/gco:Decimal/text(); eastBoundingCoordinate = gmd:eastBoundLongitude/ gco:Decimal/text(); westBoundingCoordinate = gmd:westBoundLongitude/gco:Decimal/text()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>isotc.geohash6</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_7</i>	False		<pre>//gmd:identificationInfo/gmd:MD_ ↔DataIdentification/ gmd:extent/gmd:EX_Extent/gmd:geographicElement/ gmd:EX_GeographicBoundingBox -&gt;{[[ northBoundingCoordinate]_ ↔[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↔[westBoundingCoordinate]}}; northBoundingCoordinate =_ ↔gmd:northBoundLatitude/ gco:Decimal/text (); southBoundingCoordinate = gmd:southBoundLatitude/gco:Decimal/text (); eastBoundingCoordinate = gmd:eastBoundLongitude/ gco:Decimal/text (); westBoundingCoordinate = gmd:westBoundLongitude/gco:Decimal/text ()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>isotc.geohash7</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>
<i>Index.geohash_8</i>	False		<pre>//gmd:identificationInfo/gmd:MD_ ↔DataIdentification/ gmd:extent/gmd:EX_Extent/gmd:geographicElement/ gmd:EX_GeographicBoundingBox -&gt;{[[ northBoundingCoordinate]_ ↔[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↔[westBoundingCoordinate]}}; northBoundingCoordinate =_ ↔gmd:northBoundLatitude/ gco:Decimal/text (); southBoundingCoordinate = gmd:southBoundLatitude/gco:Decimal/text (); eastBoundingCoordinate = gmd:eastBoundLongitude/ gco:Decimal/text (); westBoundingCoordinate = gmd:westBoundLongitude/gco:Decimal/text ()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>isotc.geohash8</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.isService</i>	False	False	<pre>boolean(//srv:SV_ServiceIdentification or // gmd:distributionInfo/gmd:MD_Distribution)  Processor: SolrField Configuration: <i>isotc.isService</i></pre>
<i>Index.serviceCoupling</i>	False	False	<pre>concat( substring('loose', 1 div_ ↪number(boolean( // srv:SV_ServiceIdentification/srv:couplingType/ srv:SV_CouplingType/@codeListValue = 'loose'))), substring('tight', 1 div number(boolean( // srv:SV_ServiceIdentification/srv:couplingType/ srv:SV_CouplingType/@codeListValue = 'tight'))), substring('tight', 1 div number(boolean( // gmd:distributionInfo/gmd:MD_Distribution and_ ↪not( // srv:SV_ServiceIdentification/srv:couplingType/ srv:SV_CouplingType/@codeListValue))) , substring(' ', 1 div number(boolean( not( // srv:SV_ServiceIdentification/srv:couplingType/ srv:SV_CouplingType/@codeListValue) and not( //gmd:distributionInfo/ gmd:MD_Distribution))))))  Processor: SolrField Configuration: <i>isotc.serviceCoupling</i></pre>
<i>Index.serviceTitle</i>	False	False	<pre>(//srv:SV_ServiceIdentification/gmd:citation/ gmd:CI_Citation/gmd:title/gco:CharacterString  _ ↪// gmd:distributionInfo/gmd:MD_Distribution/ gmd:distributor/gmd:MD_Distributor/ gmd:distributorTransferOptions/ gmd:MD_DigitalTransferOptions/gmd:onLine/ gmd:CI_OnlineResource/gmd:name/ ↪gco:CharacterString) / text()  Processor: SolrField Configuration: <i>isotc.serviceTitle</i></pre>

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Table 1 – continued from previous page

Solr Field	Multi	Duplicate	Source
<i>Index.serviceDescription</i>	False	False	<pre>(//srv:SV_ServiceIdentification/gmd:abstract/ gco:CharacterString   //gmd:distributionInfo/ gmd:MD_Distribution/gmd:distributor/ gmd:MD_Distributor/ ↔gmd:distributorTransferOptions/ gmd:MD_DigitalTransferOptions/gmd:onLine/ gmd:CI_OnlineResource/gmd:description/ gco:CharacterString)/text ()</pre> <p>Processor: SolrField Configuration: <i>isotc.serviceDescription</i></p>
<i>Index.serviceType</i>	True	False	<pre>//srv:SV_ServiceIdentification/srv:serviceType/ gco:LocalName/text ()</pre> <p>Processor: SolrField Configuration: <i>isotc.serviceType</i></p> <p>Converter: MemberNodeServiceRegistrationTypeConverter</p>
<i>Index.serviceEndpoint</i>	True	False	<pre>//srv:SV_ServiceIdentification/ ↔srv:containsOperations/ srv:SV_OperationMetadata/srv:connectPoint/ gmd:CI_OnlineResource/gmd:linkage/gmd:URL/text ()</pre> <p>Processor: SolrField Configuration: <i>isotc.serviceEndpoint</i></p>
<i>Index.serviceInput</i>	True	False	<pre>//srv:SV_ServiceIdentification/srv:operatesOn/ ↔@xlink:href</pre> <p>Processor: SolrField Configuration: <i>isotc.serviceInput</i></p>
<i>Index.serviceOutput</i>	True	False	<pre>//srv:SV_ServiceIdentification/ ↔gmd:resourceFormat/ @xlink:href</pre> <p>Processor: SolrField Configuration: <i>isotc.serviceOutput</i></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.serviceType</i>	True	False	<pre>//gmd:distributionInfo/gmd:MD_Distribution/ ↔gmd:distributor/ gmd:MD_Distributor/ ↔gmd:distributorTransferOptions/ gmd:MD_DigitalTransferOptions/gmd:onLine/ gmd:CI_OnlineResource/gmd:protocol/ gco:CharacterString/text ()</pre> <p><b>Processor:</b> SolrField  <b>Configuration:</b> <i>isotc.distribServiceType</i></p> <p><b>Converter:</b> MemberNodeServiceRegistrationTypeConverter</p>
<i>Index.serviceEndpoint</i>	True	False	<pre>//gmd:distributionInfo/gmd:MD_Distribution/ ↔gmd:distributor/ gmd:MD_Distributor/ ↔gmd:distributorTransferOptions/ gmd:MD_DigitalTransferOptions/gmd:onLine/ gmd:CI_OnlineResource/gmd:linkage/gmd:URL/ ↔text ()   / /gmd:distributionInfo/gmd:MD_Distribution/ gmd:transferOptions/gmd:MD_ ↔DigitalTransferOptions/ gmd:onLine/gmd:CI_OnlineResource/gmd:linkage/ gmd:URL/text ()</pre> <p><b>Processor:</b> SolrField  <b>Configuration:</b> <i>isotc.distribServiceEndpoint</i></p>
<i>Index.serviceInput</i>	True	False	<pre>//gmd:distributionInfo/gmd:MD_Distribution/ ↔gmd:distributor/ gmd:MD_Distributor/ ↔gmd:distributorTransferOptions/ @xlink:href</pre> <p><b>Processor:</b> SolrField  <b>Configuration:</b> <i>isotc.distribServiceInput</i></p>
<i>Index.serviceOutput</i>	True	False	<pre>//gmd:distributionInfo/gmd:MD_Distribution/ ↔gmd:distributor/ gmd:MD_Distributor/gmd:distributorFormat/ gmd:MD_Format/gmd:version/gco:CharacterString/ ↔text ()</pre> <p><b>Processor:</b> SolrField  <b>Configuration:</b> <i>isotc.distribServiceOutput</i></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.fileID</i>			Processor: <code>ResolveSolrField</code> Configuration: <i>isotc.fileID</i> Notes: SolrField which configures the resolve url for the document being processed. Converter:
<i>Index.text</i>	False	False	<pre>/**/text ()</pre> Processor: <code>FullTextSolrField</code> Configuration: <i>isotc.fullText</i>

## 21.3 Bean Configurations

### 21.3.1 isotc.abstract

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.abstract" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="abstract"/>
    <constructor-arg name="xpath" value="//gmd:identificationInfo/gmd:MD_
↳DataIdentification/gmd:abstract/gco:CharacterString/text ()"/>
</bean>
```

### 21.3.2 isotc.author

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.author" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="author"/>
    <constructor-arg name="xpath" value="//gmd:CI_ResponsibleParty/
↳gmd:individualName/gco:CharacterString/text () | //gmd:CI_ResponsibleParty/
↳gmd:individualName/gmx:Anchor/text () [1]"/>
</bean>
```

### 21.3.3 isotc.authorSurName

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.authorSurName" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="authorSurName"/>
    <constructor-arg name="xpath" value="//gmd:CI_ResponsibleParty/
↳gmd:individualName/gco:CharacterString/text () | //gmd:CI_ResponsibleParty/
↳gmd:individualName/gmx:Anchor/text () [1]"/>
</bean>
```

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```

    <property name="multivalue" value="false"/>
</bean>

```

### 21.3.4 isotc.authorSurNameSort

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.authorSurNameSort" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="authorSurNameSort"/>
    <constructor-arg name="xpath" value="//gmd:CI_ResponsibleParty/
↳gmd:individualName/gco:CharacterString/text() | //gmd:CI_ResponsibleParty/
↳gmd:individualName/gmx:Anchor/text()[1]"/>
    <property name="multivalue" value="false"/>
</bean>

```

### 21.3.5 isotc.contactOrganization

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.contactOrganization" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="contactOrganization"/>
    <constructor-arg name="xpath" value="//gmd:CI_ResponsibleParty/
↳gmd:organisationName/gco:CharacterString/text()[1]"/>
</bean>

```

### 21.3.6 isotc.origin

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.origin" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="origin"/>
    <constructor-arg name="xpath" value="//gmd:CI_ResponsibleParty[gmd:role/
↳gmd:CI_RoleCode/text() = &quot;owner&quot; or gmd:role/gmd:CI_RoleCode/text() = &
↳quot;originator&quot; or gmd:role/gmd:CI_RoleCode/text() = &quot;
↳principalInvestigator&quot; or gmd:role/gmd:CI_RoleCode/text() = &quot;author&quot;
↳]/gmd:individualName/gco:CharacterString/text() | //gmd:CI_
↳ResponsibleParty[(gmd:role/gmd:CI_RoleCode/text() = &quot;owner&quot; or gmd:role/
↳gmd:CI_RoleCode/text() = &quot;originator&quot; or gmd:role/gmd:CI_RoleCode/text()
↳= &quot;principalInvestigator&quot; or gmd:role/gmd:CI_RoleCode/text() = &quot;
↳author&quot;)] and (not(gmd:individualName) or gmd:individualName[@gco:nilReason = &
↳quot;missing&quot;])]/gmd:organisationName/gco:CharacterString/text()"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>

```

### 21.3.7 isotc.investigator

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.investigator" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="investigator"/>
    <constructor-arg name="xpath" value="//gmd:CI_ResponsibleParty/
↳gmd:individualName/gco:CharacterString/text() | //gmd:CI_ResponsibleParty/
↳gmd:individualName/gmx:Anchor/text()"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>

```

### 21.3.8 isotc.pubDate

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.pubDate" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="pubDate"/>
    <constructor-arg name="xpath" value="if (//gmd:identificationInfo/*/
↳gmd:citation/gmd:CI_Citation/gmd:date/gmd:CI_Date/gmd:date[following-
↳sibling::gmd:dateType/gmd:CI_DateTypeCode/text() = 'publication']/gco:Date/text())
↳
↳    then //gmd:identificationInfo/*/gmd:citation/gmd:CI_Citation/
↳gmd:date/gmd:CI_Date/gmd:date[following-sibling::gmd:dateType/gmd:CI_DateTypeCode/
↳text() = 'publication']/gco:Date/text()
↳    else if (//gmd:identificationInfo/
↳*/gmd:citation/gmd:CI_Citation/gmd:date/gmd:CI_Date/gmd:date[following-
↳sibling::gmd:dateType/gmd:CI_DateTypeCode/text() = 'publication']/gco:DateTime/
↳text())
↳    then //gmd:identificationInfo/*/gmd:citation/gmd:CI_
↳Citation/gmd:date/gmd:CI_Date/gmd:date[following-sibling::gmd:dateType/gmd:CI_
↳DateTypeCode/text() = 'publication']/gco:DateTime/text()
↳    else if (//
↳gmd:identificationInfo/*/gmd:citation/gmd:CI_Citation/gmd:date/gmd:CI_Date/gmd:date/
↳gco:Date[1]/text())
↳    then //gmd:identificationInfo/*/gmd:citation/
↳gmd:CI_Citation/gmd:date/gmd:CI_Date/gmd:date/gco:Date[1]/text()
↳    else if
↳(//gmd:identificationInfo/*/gmd:citation/gmd:CI_Citation/gmd:date/gmd:CI_Date/
↳gmd:date/gco:DateTime[1]/text())
↳    then //gmd:identificationInfo/*/
↳gmd:citation/gmd:CI_Citation/gmd:date/gmd:CI_Date/gmd:date/gco:DateTime[1]/text()
↳
↳    else ()"/>
    <property name="converter" ref="dateConverter"/>
</bean>

```

### 21.3.9 isotc.beginDate

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.beginDate" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="beginDate"/>
    <constructor-arg name="xpath" value="//gmd:identificationInfo/gmd:MD_
↳DataIdentification/gmd:extent/gmd:EX_Extent/gmd:temporalElement/gmd:EX_
↳TemporalExtent/gmd:extent/*[local-name() = 'TimePeriod']/*[local-name() =
↳'beginPosition']/text()"/>
    <property name="converter" ref="dateConverter"/>
</bean>

```

### 21.3.10 isotc.endDate

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.endDate" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="endDate"/>
    <constructor-arg name="xpath" value="//gmd:identificationInfo/gmd:MD_
↳DataIdentification/gmd:extent/gmd:EX_Extent/gmd:temporalElement/gmd:EX_
↳TemporalExtent/gmd:extent/*[local-name() = 'TimePeriod']/*[local-name() =
↳'endPosition']/text()"/>
    <property name="converter" ref="dateConverter"/>
</bean>
```

### 21.3.11 isotc.title

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.title" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="title"/>
    <constructor-arg name="xpath" value="//gmd:identificationInfo/gmd:MD_
↳DataIdentification/gmd:citation/gmd:CI_Citation/gmd:title/gco:CharacterString/
↳text() | //gmd:identificationInfo/gmd:MD_DataIdentification/gmd:citation/gmd:CI_
↳Citation/gmd:title/gmx:Anchor/text()"/>
</bean>
```

### 21.3.12 isotc.keywords

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.keywords" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="keywords"/>
    <constructor-arg name="xpath" value="//gmd:identificationInfo/gmd:MD_
↳DataIdentification/gmd:descriptiveKeywords/gmd:MD_Keywords/gmd:keyword/gmx:Anchor/
↳text() | //gmd:identificationInfo/gmd:MD_DataIdentification/gmd:descriptiveKeywords/
↳gmd:MD_Keywords/gmd:keyword/gco:CharacterString/text()"/>
    <property name="multivalue" value="true"/>
</bean>
```

### 21.3.13 isotc.eastBoundCoord

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.eastBoundCoord" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="eastBoundCoord"/>
    <constructor-arg name="xpath" value="//gmd:identificationInfo/gmd:MD_
↳DataIdentification/gmd:extent/gmd:EX_Extent/gmd:geographicElement/gmd:EX_
↳GeographicBoundingBox/gmd:eastBoundLongitude/gco:Decimal/text()"/>
</bean>
```

### 21.3.14 isotc.westBoundCoord

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.westBoundCoord" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="westBoundCoord"/>
    <constructor-arg name="xpath" value="//gmd:identificationInfo/gmd:MD_
↳DataIdentification/gmd:extent/gmd:EX_Extent/gmd:geographicElement/gmd:EX_
↳GeographicBoundingBox/gmd:westBoundLongitude/gco:Decimal/text ()"/>
</bean>
```

### 21.3.15 isotc.southBoundCoord

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.southBoundCoord" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="southBoundCoord"/>
    <constructor-arg name="xpath" value="//gmd:identificationInfo/gmd:MD_
↳DataIdentification/gmd:extent/gmd:EX_Extent/gmd:geographicElement/gmd:EX_
↳GeographicBoundingBox/gmd:southBoundLatitude/gco:Decimal/text ()"/>
</bean>
```

### 21.3.16 isotc.northBoundCoord

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.northBoundCoord" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="northBoundCoord"/>
    <constructor-arg name="xpath" value="//gmd:identificationInfo/gmd:MD_
↳DataIdentification/gmd:extent/gmd:EX_Extent/gmd:geographicElement/gmd:EX_
↳GeographicBoundingBox/gmd:northBoundLatitude/gco:Decimal/text ()"/>
</bean>
```

### 21.3.17 isotc.geohash9

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.geohash9" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="true" p:root-ref="isotc.geohashRoot">
    <constructor-arg name="name" value="geohash_9"/>
    <property name="converter" ref="geohashConverter_9"/>
</bean>
```

### 21.3.18 isotc.geohash1

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.geohash1" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="true" p:root-ref="isotc.geohashRoot">
    <constructor-arg name="name" value="geohash_1"/>
```

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```
</bean>
  <property name="converter" ref="geohashConverter_1"/>
</bean>
```

### 21.3.19 isotc.geohash2

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.geohash2" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="true" p:root-ref="isotc.geohashRoot">
  <constructor-arg name="name" value="geohash_2"/>
  <property name="converter" ref="geohashConverter_2"/>
</bean>
```

### 21.3.20 isotc.geohash3

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.geohash3" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="true" p:root-ref="isotc.geohashRoot">
  <constructor-arg name="name" value="geohash_3"/>
  <property name="converter" ref="geohashConverter_3"/>
</bean>
```

### 21.3.21 isotc.geohash4

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.geohash4" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="true" p:root-ref="isotc.geohashRoot">
  <constructor-arg name="name" value="geohash_4"/>
  <property name="converter" ref="geohashConverter_4"/>
</bean>
```

### 21.3.22 isotc.geohash5

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.geohash5" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="true" p:root-ref="isotc.geohashRoot">
  <constructor-arg name="name" value="geohash_5"/>
  <property name="converter" ref="geohashConverter_5"/>
</bean>
```

### 21.3.23 isotc.geohash6



```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.geohash6" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="true" p:root-ref="isotc.geohashRoot">
    <constructor-arg name="name" value="geohash_6"/>
    <property name="converter" ref="geohashConverter_6"/>
</bean>

```

### 21.3.24 isotc.geohash7

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.geohash7" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="true" p:root-ref="isotc.geohashRoot">
    <constructor-arg name="name" value="geohash_7"/>
    <property name="converter" ref="geohashConverter_7"/>
</bean>

```

### 21.3.25 isotc.geohash8

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.geohash8" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="true" p:root-ref="isotc.geohashRoot">
    <constructor-arg name="name" value="geohash_8"/>
    <property name="converter" ref="geohashConverter_8"/>
</bean>

```

### 21.3.26 isotc.isService

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.isService" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="isService"/>
    <constructor-arg name="xpath" value="boolean(//srv:SV_
↳ServiceIdentification or //gmd:distributionInfo/gmd:MD_Distribution)"/>
</bean>

```

### 21.3.27 isotc.serviceCoupling

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.serviceCoupling" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="serviceCoupling"/>
    <constructor-arg name="xpath" value="concat( substring('loose', 1 div
↳number(boolean( //srv:SV_ServiceIdentification/srv:couplingType/srv:SV_CouplingType/
↳@codeListValue = 'loose'))), substring('tight', 1 div number(boolean( //
↳srv:SV_ServiceIdentification/srv:couplingType/srv:SV_CouplingType/@codeListValue =
↳'tight'))), substring('tight', 1 div number(boolean( //gmd:distributionInfo/
↳gmd:MD_Distribution and not(//srv:SV_ServiceIdentification/srv:couplingType/srv:SV_
↳CouplingType/@codeListValue))), substring('', 1 div number(boolean( not(
↳//srv:SV_ServiceIdentification/srv:couplingType/srv:SV_CouplingType/@codeListValue)
↳and not( //gmd:distributionInfo/gmd:MD_Distribution))))"/>

```

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```
</bean>
```

### 21.3.28 isotc.serviceTitle

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.serviceTitle" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="serviceTitle"/>
    <constructor-arg name="xpath" value="//srv:SV_ServiceIdentification/
↳gmd:citation/gmd:CI_Citation/gmd:title/gco:CharacterString | //gmd:distributionInfo/
↳gmd:MD_Distribution/gmd:distributor/gmd:MD_Distributor/
↳gmd:distributorTransferOptions/gmd:MD_DigitalTransferOptions/gmd:onLine/gmd:CI_
↳OnlineResource/gmd:name/gco:CharacterString)/text () "/>
    <property name="combineNodes" value="true"/>
    <property name="combineDelimiter" value=":"/>
</bean>
```

### 21.3.29 isotc.serviceDescription

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.serviceDescription" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="serviceDescription"/>
    <constructor-arg name="xpath" value="//srv:SV_ServiceIdentification/
↳gmd:abstract/gco:CharacterString | //gmd:distributionInfo/gmd:MD_Distribution/
↳gmd:distributor/gmd:MD_Distributor/gmd:distributorTransferOptions/gmd:MD_
↳DigitalTransferOptions/gmd:onLine/gmd:CI_OnlineResource/gmd:description/
↳gco:CharacterString)/text () "/>
    <property name="combineNodes" value="true"/>
    <property name="combineDelimiter" value=":"/>
</bean>
```

### 21.3.30 isotc.serviceType

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.serviceType" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="serviceType"/>
    <constructor-arg name="xpath" value="//srv:SV_ServiceIdentification/
↳srv:serviceType/gco:LocalName/text () "/>
    <property name="multivalue" value="true"/>
    <property name="converter" ref="serviceTypesConverter"/>
</bean>
```

### 21.3.31 isotc.serviceEndpoint

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.serviceEndpoint" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="serviceEndpoint"/>
    <constructor-arg name="xpath" value="//srv:SV_ServiceIdentification/
↳srv:containsOperations/srv:SV_OperationMetadata/srv:connectPoint/gmd:CI_
↳OnlineResource/gmd:linkage/gmd:URL/text ()"/>
    <property name="multivalue" value="true"/>
</bean>

```

### 21.3.32 isotc.serviceInput

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.serviceInput" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="serviceInput"/>
    <constructor-arg name="xpath" value="//srv:SV_ServiceIdentification/
↳srv:operatesOn/@xlink:href"/>
    <property name="multivalue" value="true"/>
</bean>

```

### 21.3.33 isotc.serviceOutput

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.serviceOutput" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="serviceOutput"/>
    <constructor-arg name="xpath" value="//srv:SV_ServiceIdentification/
↳gmd:resourceFormat/@xlink:href"/>
    <property name="multivalue" value="true"/>
</bean>

```

### 21.3.34 isotc.distribServiceType

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.distribServiceType" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="serviceType"/>
    <constructor-arg name="xpath" value="//gmd:distributionInfo/gmd:MD_
↳Distribution/gmd:distributor/gmd:MD_Distributor/gmd:distributorTransferOptions/
↳gmd:MD_DigitalTransferOptions/gmd:onLine/gmd:CI_OnlineResource/gmd:protocol/
↳gco:CharacterString/text ()"/>
    <property name="multivalue" value="true"/>
    <property name="converter" ref="serviceTypesConverter"/>
</bean>

```

### 21.3.35 isotc.distribServiceEndpoint

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.distribServiceEndpoint" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="serviceEndpoint" />
    <constructor-arg name="xpath" value="//gmd:distributionInfo/gmd:MD_
↳Distribution/gmd:distributor/gmd:MD_Distributor/gmd:distributorTransferOptions/
↳gmd:MD_DigitalTransferOptions/gmd:onLine/gmd:CI_OnlineResource/gmd:linkage/gmd:URL/
↳text() | //gmd:distributionInfo/gmd:MD_Distribution/gmd:transferOptions/gmd:MD_
↳DigitalTransferOptions/gmd:onLine/gmd:CI_OnlineResource/gmd:linkage/gmd:URL/text()"/
↳>
    <property name="multivalue" value="true" />
</bean>

```

### 21.3.36 isotc.distribServiceInput

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.distribServiceInput" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="serviceInput" />
    <constructor-arg name="xpath" value="//gmd:distributionInfo/gmd:MD_
↳Distribution/gmd:distributor/gmd:MD_Distributor/gmd:distributorTransferOptions/
↳@xlink:href"/>
    <property name="multivalue" value="true" />
</bean>

```

### 21.3.37 isotc.distribServiceOutput

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.distribServiceOutput" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="serviceOutput" />
    <constructor-arg name="xpath" value="//gmd:distributionInfo/gmd:MD_
↳Distribution/gmd:distributor/gmd:MD_Distributor/gmd:distributorFormat/gmd:MD_Format/
↳gmd:version/gco:CharacterString/text()"/>
    <property name="multivalue" value="true" />
</bean>

```

### 21.3.38 isotc.fileID

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.fileID" class="org.dataone.cn.indexer.parser.ResolveSolrField">
    <constructor-arg name="name" value="fileID" />
</bean>

```

### 21.3.39 isotc.fullText

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.fullText" class="org.dataone.cn.indexer.parser.FullTextSolrField">
    <constructor-arg name="name" value="text"/>
    <constructor-arg name="xpath" value="//*/text()"/>
    <property name="combineNodes" value="true"/>
</bean>
```



---

ISO TC-211, PANGAEA Variant

---

Describes parser configuration for: isotc211PangaeaSubprocessor

## 22.1 Format IDs Processed

This parser processes the following DataONE format IDs:

- PANGAEA Variant Geographic MetaData (GMD) Extensible Markup Language  
formatId: <http://www.isotc211.org/2005/gmd-pangaea>

A full list of DataONE format IDs can be found at <https://cn.dataone.org/cn/v2/formats/>

## 22.2 Fields

The following fields in the solr index are populated from values retrieved from this type of metadata document. Note that these are in addition to the information extracted from *System Metadata Parser*.

Solr Field	Multi	Dedupe	Source
<i>Index.abstract</i>	False	False	<pre>//gmd:identificationInfo/gmd:MD_ ↔DataIdentification/ gmd:abstract/gco:CharacterString/text ()</pre> <p>Processor: SolrField Configuration: <i>isotc.abstract</i></p>

Continued on next page

Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.author</i>	False	False	<pre>(//gmd:CI_ResponsibleParty/gmd:individualName/ gco:CharacterString/text()   // gmd:CI_ResponsibleParty/gmd:individualName/ gmx:Anchor/text())[1]</pre> <p>Processor: SolrField Configuration: <i>isotc.author</i></p>
<i>Index.authorSurName</i>	False	False	<pre>(//gmd:CI_ResponsibleParty/gmd:individualName/ gco:CharacterString/text()   // gmd:CI_ResponsibleParty/gmd:individualName/ gmx:Anchor/text())[1]</pre> <p>Processor: SolrField Configuration: <i>isotc.authorSurName</i></p>
<i>Index.authorSurNameSort</i>	False	False	<pre>(//gmd:CI_ResponsibleParty/gmd:individualName/ gco:CharacterString/text()   // gmd:CI_ResponsibleParty/gmd:individualName/ gmx:Anchor/text())[1]</pre> <p>Processor: SolrField Configuration: <i>isotc.authorSurNameSort</i></p>
<i>Index.contactOrganization</i>	False	False	<pre>(//gmd:CI_ResponsibleParty/gmd:organisationName/ gco:CharacterString/text())[1]</pre> <p>Processor: SolrField Configuration: <i>isotc.contactOrganization</i></p>

Continued on next page



Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.origin</i>	True	True	<pre>//gmd:CI_ResponsibleParty[gmd:role/gmd:CI_ ↪RoleCode/text() = "owner" or gmd:role/gmd:CI_RoleCode/text() = "originator" or gmd:role/gmd:CI_RoleCode/text() ↪= "principalInvestigator" or gmd:role/gmd:CI_ ↪RoleCode/ text() = "author"]/gmd:individualName/ gco:CharacterString/text()   // gmd:CI_ResponsibleParty[(gmd:role/gmd:CI_ ↪RoleCode/ text() = "owner" or gmd:role/gmd:CI_RoleCode/ ↪text() = "originator" or gmd:role/gmd:CI_RoleCode/ ↪text() = "principalInvestigator" or gmd:role/gmd:CI_ ↪RoleCode/ text() = "author") and (not(gmd:individualName) ↪or gmd:individualName[@gco:nilReason = "missing ↪"])]/ gmd:organisationName/gco:CharacterString/text()</pre> <p>Processor: SolrField Configuration: <i>isotc.origin</i></p>
<i>Index.investigator</i>	True	True	<pre>//gmd:CI_ResponsibleParty/gmd:individualName/ gco:CharacterString/text()   // gmd:CI_ResponsibleParty/gmd:individualName/ gmx:Anchor/text()</pre> <p>Processor: SolrField Configuration: <i>isotc.investigator</i></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.pubDate</i>	False	False	<pre> <b>if</b> (//gmd:identificationInfo/*/gmd:citation/ ↪gmd:CI_Citation/ gmd:date/gmd:CI_Date/gmd:date[ following-sibling::gmd:dateType/gmd:CI_ ↪DateTypeCode/ text() = 'publication']/gco:Date/text())     then //gmd:identificationInfo/*/ ↪gmd:citation/ gmd:CI_Citation/gmd:date/gmd:CI_Date/gmd:date[ following-sibling::gmd:dateType/gmd:CI_ ↪DateTypeCode/ text() = 'publication']/gco:Date/text() <b>else if</b> (//gmd:identificationInfo/*/ ↪gmd:citation/ gmd:CI_Citation/gmd:date/gmd:CI_Date/gmd:date[ following-sibling::gmd:dateType/gmd:CI_ ↪DateTypeCode/ text() = 'publication']/gco:DateTime/text())     then //gmd:identificationInfo/*/ gmd:citation/gmd:CI_Citation/gmd:date/gmd:CI_ ↪Date/ gmd:date[following-sibling::gmd:dateType/ gmd:CI_DateTypeCode/text() = 'publication']/ gco:DateTime/text()     <b>else if</b> (// gmd:identificationInfo/*/gmd:citation/ gmd:CI_Citation/gmd:date/gmd:CI_Date/gmd:date/ gco:Date[1]/text())         then // gmd:identificationInfo/*/gmd:citation/ gmd:CI_Citation/gmd:date/gmd:CI_Date/gmd:date/ gco:Date[1]/text()     <b>else if</b> (// gmd:identificationInfo/*/gmd:citation/ gmd:CI_Citation/gmd:date/gmd:CI_Date/gmd:date/ gco:DateTime[1]/text())         then // gmd:identificationInfo/*/gmd:citation/ gmd:CI_Citation/gmd:date/gmd:CI_Date/gmd:date/ gco:DateTime[1]/text()     <b>else</b> ()  Processor: SolrField Configuration: <i>isotc.pubDate</i> Converter: SolrDateConverter </pre>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.beginDate</i>	False	False	<pre>//gmd:identificationInfo/gmd:MD_ ↪DataIdentification/ gmd:extent/gmd:EX_Extent/gmd:temporalElement/ gmd:EX_TemporalExtent/gmd:extent/*[local-name() = ↪= 'TimePeriod']/*[local-name() = 'beginPosition']/ text()</pre> <p>Processor: SolrField Configuration: <i>isotc.beginDate</i> Converter: SolrDateConverter</p>
<i>Index.endDate</i>	False	False	<pre>//gmd:identificationInfo/gmd:MD_ ↪DataIdentification/ gmd:extent/gmd:EX_Extent/gmd:temporalElement/ gmd:EX_TemporalExtent/gmd:extent/*[local-name() = ↪= 'TimePeriod']/*[local-name() = 'endPosition']/ ↪text()</pre> <p>Processor: SolrField Configuration: <i>isotc.endDate</i> Converter: SolrDateConverter</p>
<i>Index.title</i>	False	False	<pre>//gmd:identificationInfo/gmd:MD_ ↪DataIdentification/ gmd:citation/gmd:CI_Citation/gmd:title/ gco:CharacterString/text()   // gmd:identificationInfo/gmd:MD_ ↪DataIdentification/ gmd:citation/gmd:CI_Citation/gmd:title/ ↪gmx:Anchor/ text()</pre> <p>Processor: SolrField Configuration: <i>isotc.title</i></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.keywords</i>	True	False	<pre>//gmd:identificationInfo/gmd:MD_ ↔DataIdentification/ gmd:descriptiveKeywords/gmd:MD_Keywords/ ↔gmd:keyword/ gmx:Anchor/text ()   //gmd:identificationInfo/ gmd:MD_DataIdentification/ ↔gmd:descriptiveKeywords/ gmd:MD_Keywords/gmd:keyword/gco:CharacterString/ text ()</pre> <p>Processor: SolrField Configuration: <i>isotc.keywords</i></p>
<i>Index.eastBoundCoord</i>	False	False	<pre>//gmd:identificationInfo/gmd:MD_ ↔DataIdentification/ gmd:extent/gmd:EX_Extent/gmd:geographicElement/ gmd:EX_GeographicBoundingBox/ ↔gmd:eastBoundLongitude/ gco:Decimal/text ()</pre> <p>Processor: SolrField Configuration: <i>isotc.eastBoundCoord</i></p>
<i>Index.westBoundCoord</i>	False	False	<pre>//gmd:identificationInfo/gmd:MD_ ↔DataIdentification/ gmd:extent/gmd:EX_Extent/gmd:geographicElement/ gmd:EX_GeographicBoundingBox/ ↔gmd:westBoundLongitude/ gco:Decimal/text ()</pre> <p>Processor: SolrField Configuration: <i>isotc.westBoundCoord</i></p>
<i>Index.southBoundCoord</i>	False	False	<pre>//gmd:identificationInfo/gmd:MD_ ↔DataIdentification/ gmd:extent/gmd:EX_Extent/gmd:geographicElement/ gmd:EX_GeographicBoundingBox/ ↔gmd:southBoundLatitude/ gco:Decimal/text ()</pre> <p>Processor: SolrField Configuration: <i>isotc.southBoundCoord</i></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.northBoundCoord</i>	False	False	<pre>//gmd:identificationInfo/gmd:MD_ ↔DataIdentification/ gmd:extent/gmd:EX_Extent/gmd:geographicElement/ gmd:EX_GeographicBoundingBox/ ↔gmd:northBoundLatitude/ gco:Decimal/text()</pre> <p>Processor: <a href="#">SolrField</a>  Configuration: <i>isotc.northBoundCoord</i></p>
<i>Index.geohash_9</i>	False		<pre>//gmd:identificationInfo/gmd:MD_ ↔DataIdentification/ gmd:extent/gmd:EX_Extent/gmd:geographicElement/ gmd:EX_GeographicBoundingBox -&gt;{[[ northBoundingCoordinate]_ ↔[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↔[westBoundingCoordinate] ]}]; northBoundingCoordinate =_ ↔gmd:northBoundLatitude/ gco:Decimal/text(); southBoundingCoordinate = gmd:southBoundLatitude/gco:Decimal/text(); eastBoundingCoordinate = gmd:eastBoundLongitude/ gco:Decimal/text(); westBoundingCoordinate = gmd:westBoundLongitude/gco:Decimal/text()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>isotc.geohash9</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_1</i>	False		<pre>//gmd:identificationInfo/gmd:MD_ ↳DataIdentification/ gmd:extent/gmd:EX_Extent/gmd:geographicElement/ gmd:EX_GeographicBoundingBox -&gt;{[[ northBoundingCoordinate]_ ↳[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↳[westBoundingCoordinate]}}; northBoundingCoordinate =_ ↳gmd:northBoundLatitude/ gco:Decimal/text (); southBoundingCoordinate = gmd:southBoundLatitude/gco:Decimal/text (); eastBoundingCoordinate = gmd:eastBoundLongitude/ gco:Decimal/text (); westBoundingCoordinate = gmd:westBoundLongitude/gco:Decimal/text ()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>isotc.geohash1</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>
<i>Index.geohash_2</i>	False		<pre>//gmd:identificationInfo/gmd:MD_ ↳DataIdentification/ gmd:extent/gmd:EX_Extent/gmd:geographicElement/ gmd:EX_GeographicBoundingBox -&gt;{[[ northBoundingCoordinate]_ ↳[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↳[westBoundingCoordinate]}}; northBoundingCoordinate =_ ↳gmd:northBoundLatitude/ gco:Decimal/text (); southBoundingCoordinate = gmd:southBoundLatitude/gco:Decimal/text (); eastBoundingCoordinate = gmd:eastBoundLongitude/ gco:Decimal/text (); westBoundingCoordinate = gmd:westBoundLongitude/gco:Decimal/text ()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>isotc.geohash2</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_3</i>	False		<pre>//gmd:identificationInfo/gmd:MD_ ↔DataIdentification/ gmd:extent/gmd:EX_Extent/gmd:geographicElement/ gmd:EX_GeographicBoundingBox -&gt;{[[ northBoundingCoordinate]_ ↔[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↔[westBoundingCoordinate]}}; northBoundingCoordinate =_ ↔gmd:northBoundLatitude/ gco:Decimal/text(); southBoundingCoordinate = gmd:southBoundLatitude/gco:Decimal/text(); eastBoundingCoordinate = gmd:eastBoundLongitude/ gco:Decimal/text(); westBoundingCoordinate = gmd:westBoundLongitude/gco:Decimal/text()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>isotc.geohash3</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>
<i>Index.geohash_4</i>	False		<pre>//gmd:identificationInfo/gmd:MD_ ↔DataIdentification/ gmd:extent/gmd:EX_Extent/gmd:geographicElement/ gmd:EX_GeographicBoundingBox -&gt;{[[ northBoundingCoordinate]_ ↔[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↔[westBoundingCoordinate]}}; northBoundingCoordinate =_ ↔gmd:northBoundLatitude/ gco:Decimal/text(); southBoundingCoordinate = gmd:southBoundLatitude/gco:Decimal/text(); eastBoundingCoordinate = gmd:eastBoundLongitude/ gco:Decimal/text(); westBoundingCoordinate = gmd:westBoundLongitude/gco:Decimal/text()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>isotc.geohash4</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_5</i>	False		<pre>//gmd:identificationInfo/gmd:MD_ ↔DataIdentification/ gmd:extent/gmd:EX_Extent/gmd:geographicElement/ gmd:EX_GeographicBoundingBox -&gt;{[[ northBoundingCoordinate]_ ↔[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↔[westBoundingCoordinate]}}; northBoundingCoordinate =_ ↔gmd:northBoundLatitude/ gco:Decimal/text (); southBoundingCoordinate = gmd:southBoundLatitude/gco:Decimal/text (); eastBoundingCoordinate = gmd:eastBoundLongitude/ gco:Decimal/text (); westBoundingCoordinate = gmd:westBoundLongitude/gco:Decimal/text ()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>isotc.geohash5</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>
<i>Index.geohash_6</i>	False		<pre>//gmd:identificationInfo/gmd:MD_ ↔DataIdentification/ gmd:extent/gmd:EX_Extent/gmd:geographicElement/ gmd:EX_GeographicBoundingBox -&gt;{[[ northBoundingCoordinate]_ ↔[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↔[westBoundingCoordinate]}}; northBoundingCoordinate =_ ↔gmd:northBoundLatitude/ gco:Decimal/text (); southBoundingCoordinate = gmd:southBoundLatitude/gco:Decimal/text (); eastBoundingCoordinate = gmd:eastBoundLongitude/ gco:Decimal/text (); westBoundingCoordinate = gmd:westBoundLongitude/gco:Decimal/text ()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>isotc.geohash6</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_7</i>	False		<pre>//gmd:identificationInfo/gmd:MD_ ↳DataIdentification/ gmd:extent/gmd:EX_Extent/gmd:geographicElement/ gmd:EX_GeographicBoundingBox -&gt;{[[ northBoundingCoordinate]_ ↳[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↳[westBoundingCoordinate]}}; northBoundingCoordinate =_ ↳gmd:northBoundLatitude/ gco:Decimal/text(); southBoundingCoordinate = gmd:southBoundLatitude/gco:Decimal/text(); eastBoundingCoordinate = gmd:eastBoundLongitude/ gco:Decimal/text(); westBoundingCoordinate = gmd:westBoundLongitude/gco:Decimal/text()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>isotc.geohash7</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>
<i>Index.geohash_8</i>	False		<pre>//gmd:identificationInfo/gmd:MD_ ↳DataIdentification/ gmd:extent/gmd:EX_Extent/gmd:geographicElement/ gmd:EX_GeographicBoundingBox -&gt;{[[ northBoundingCoordinate]_ ↳[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↳[westBoundingCoordinate]}}; northBoundingCoordinate =_ ↳gmd:northBoundLatitude/ gco:Decimal/text(); southBoundingCoordinate = gmd:southBoundLatitude/gco:Decimal/text(); eastBoundingCoordinate = gmd:eastBoundLongitude/ gco:Decimal/text(); westBoundingCoordinate = gmd:westBoundLongitude/gco:Decimal/text()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>isotc.geohash8</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.isService</i>	False	False	<pre>boolean(//srv:SV_ServiceIdentification or // gmd:distributionInfo/gmd:MD_Distribution)</pre> <p>Processor: SolrField Configuration: <i>isotc.isService</i></p>
<i>Index.serviceCoupling</i>	False	False	<pre>concat( substring('loose', 1 div_ ↪number(boolean( // srv:SV_ServiceIdentification/srv:couplingType/ srv:SV_CouplingType/@codeListValue = 'loose'))), substring('tight', 1 div number(boolean( // srv:SV_ServiceIdentification/srv:couplingType/ srv:SV_CouplingType/@codeListValue = 'tight'))), substring('tight', 1 div number(boolean( // gmd:distributionInfo/gmd:MD_Distribution and_ ↪not( // srv:SV_ServiceIdentification/srv:couplingType/ srv:SV_CouplingType/@codeListValue))) , substring(' ', 1 div number(boolean( not( // srv:SV_ServiceIdentification/srv:couplingType/ srv:SV_CouplingType/@codeListValue) and not( //gmd:distributionInfo/ gmd:MD_Distribution))))))</pre> <p>Processor: SolrField Configuration: <i>isotc.serviceCoupling</i></p>
<i>Index.serviceTitle</i>	False	False	<pre>(//srv:SV_ServiceIdentification/gmd:citation/ gmd:CI_Citation/gmd:title/gco:CharacterString  _ ↪// gmd:distributionInfo/gmd:MD_Distribution/ gmd:distributor/gmd:MD_Distributor/ gmd:distributorTransferOptions/ gmd:MD_DigitalTransferOptions/gmd:onLine/ gmd:CI_OnlineResource/gmd:name/ ↪gco:CharacterString) / text()</pre> <p>Processor: SolrField Configuration: <i>isotc.serviceTitle</i></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.serviceDescription</i>	False	False	<pre> (//srv:SV_ServiceIdentification/gmd:abstract/ gco:CharacterString   //gmd:distributionInfo/ gmd:MD_Distribution/gmd:distributor/ gmd:MD_Distributor/ ↔gmd:distributorTransferOptions/ gmd:MD_DigitalTransferOptions/gmd:onLine/ gmd:CI_OnlineResource/gmd:description/ gco:CharacterString)/text ()  Processor: SolrField Configuration: <i>isotc.serviceDescription</i> </pre>
<i>Index.serviceType</i>	True	False	<pre> //srv:SV_ServiceIdentification/srv:serviceType/ gco:LocalName/text ()  Processor: SolrField Configuration: <i>isotc.serviceType</i>  Converter: MemberNodeServiceRegistrationTypeConverter </pre>
<i>Index.serviceEndpoint</i>	True	False	<pre> //srv:SV_ServiceIdentification/ ↔srv:containsOperations/ srv:SV_OperationMetadata/srv:connectPoint/ gmd:CI_OnlineResource/gmd:linkage/gmd:URL/text ()  Processor: SolrField Configuration: <i>isotc.serviceEndpoint</i> </pre>
<i>Index.serviceInput</i>	True	False	<pre> //srv:SV_ServiceIdentification/srv:operatesOn/ ↔@xlink:href  Processor: SolrField Configuration: <i>isotc.serviceInput</i> </pre>
<i>Index.serviceOutput</i>	True	False	<pre> //srv:SV_ServiceIdentification/ ↔gmd:resourceFormat/ @xlink:href  Processor: SolrField Configuration: <i>isotc.serviceOutput</i> </pre>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.serviceType</i>	True	False	<pre>//gmd:distributionInfo/gmd:MD_Distribution/ ↔gmd:distributor/ gmd:MD_Distributor/ ↔gmd:distributorTransferOptions/ gmd:MD_DigitalTransferOptions/gmd:onLine/ gmd:CI_OnlineResource/gmd:protocol/ gco:CharacterString/text ()</pre> <p>Processor: SolrField Configuration: <i>isotc.distribServiceType</i> Converter: MemberNodeServiceRegistrationTypeConverter</p>
<i>Index.serviceEndpoint</i>	True	False	<pre>//gmd:distributionInfo/gmd:MD_Distribution/ ↔gmd:distributor/ gmd:MD_Distributor/ ↔gmd:distributorTransferOptions/ gmd:MD_DigitalTransferOptions/gmd:onLine/ gmd:CI_OnlineResource/gmd:linkage/gmd:URL/ ↔text ()   / /gmd:distributionInfo/gmd:MD_Distribution/ gmd:transferOptions/gmd:MD_ ↔DigitalTransferOptions/ gmd:onLine/gmd:CI_OnlineResource/gmd:linkage/ gmd:URL/text ()</pre> <p>Processor: SolrField Configuration: <i>isotc.distribServiceEndpoint</i></p>
<i>Index.serviceInput</i>	True	False	<pre>//gmd:distributionInfo/gmd:MD_Distribution/ ↔gmd:distributor/ gmd:MD_Distributor/ ↔gmd:distributorTransferOptions/ @xlink:href</pre> <p>Processor: SolrField Configuration: <i>isotc.distribServiceInput</i></p>
<i>Index.serviceOutput</i>	True	False	<pre>//gmd:distributionInfo/gmd:MD_Distribution/ ↔gmd:distributor/ gmd:MD_Distributor/gmd:distributorFormat/ gmd:MD_Format/gmd:version/gco:CharacterString/ ↔text ()</pre> <p>Processor: SolrField Configuration: <i>isotc.distribServiceOutput</i></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.fileID</i>			Processor: <code>ResolveSolrField</code> Configuration: <i>isotc.fileID</i> Notes: SolrField which configures the resolve url for the document being processed. Converter:
<i>Index.text</i>	False	False	<pre>/**/text ()</pre> Processor: <code>FullTextSolrField</code> Configuration: <i>isotc.fullText</i>

## 22.3 Bean Configurations

### 22.3.1 isotc.abstract

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.abstract" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="abstract"/>
    <constructor-arg name="xpath" value="//gmd:identificationInfo/gmd:MD_
↳DataIdentification/gmd:abstract/gco:CharacterString/text ()"/>
</bean>
```

### 22.3.2 isotc.author

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.author" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="author"/>
    <constructor-arg name="xpath" value="//gmd:CI_ResponsibleParty/
↳gmd:individualName/gco:CharacterString/text () | //gmd:CI_ResponsibleParty/
↳gmd:individualName/gmx:Anchor/text () [1]"/>
</bean>
```

### 22.3.3 isotc.authorSurName

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.authorSurName" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="authorSurName"/>
    <constructor-arg name="xpath" value="//gmd:CI_ResponsibleParty/
↳gmd:individualName/gco:CharacterString/text () | //gmd:CI_ResponsibleParty/
↳gmd:individualName/gmx:Anchor/text () [1]"/>
</bean>
```

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```

    <property name="multivalue" value="false"/>
</bean>

```

### 22.3.4 isotc.authorSurNameSort

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.authorSurNameSort" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="authorSurNameSort"/>
    <constructor-arg name="xpath" value="//gmd:CI_ResponsibleParty/
↳gmd:individualName/gco:CharacterString/text() | //gmd:CI_ResponsibleParty/
↳gmd:individualName/gmx:Anchor/text()[1]"/>
    <property name="multivalue" value="false"/>
</bean>

```

### 22.3.5 isotc.contactOrganization

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.contactOrganization" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="contactOrganization"/>
    <constructor-arg name="xpath" value="//gmd:CI_ResponsibleParty/
↳gmd:organisationName/gco:CharacterString/text()[1]"/>
</bean>

```

### 22.3.6 isotc.origin

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.origin" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="origin"/>
    <constructor-arg name="xpath" value="//gmd:CI_ResponsibleParty[gmd:role/
↳gmd:CI_RoleCode/text() = &quot;owner&quot; or gmd:role/gmd:CI_RoleCode/text() = &
↳quot;originator&quot; or gmd:role/gmd:CI_RoleCode/text() = &quot;
↳principalInvestigator&quot; or gmd:role/gmd:CI_RoleCode/text() = &quot;author&quot;
↳]/gmd:individualName/gco:CharacterString/text() | //gmd:CI_
↳ResponsibleParty[(gmd:role/gmd:CI_RoleCode/text() = &quot;owner&quot; or gmd:role/
↳gmd:CI_RoleCode/text() = &quot;originator&quot; or gmd:role/gmd:CI_RoleCode/text()
↳= &quot;principalInvestigator&quot; or gmd:role/gmd:CI_RoleCode/text() = &quot;
↳author&quot;)] and (not(gmd:individualName) or gmd:individualName[@gco:nilReason = &
↳quot;missing&quot;])]/gmd:organisationName/gco:CharacterString/text()"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>

```

### 22.3.7 isotc.investigator

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.investigator" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="investigator"/>
    <constructor-arg name="xpath" value="//gmd:CI_ResponsibleParty/
↳gmd:individualName/gco:CharacterString/text() | //gmd:CI_ResponsibleParty/
↳gmd:individualName/gmx:Anchor/text()"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>

```

### 22.3.8 isotc.pubDate

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.pubDate" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="pubDate"/>
    <constructor-arg name="xpath" value="if (//gmd:identificationInfo/*/
↳gmd:citation/gmd:CI_Citation/gmd:date/gmd:CI_Date/gmd:date[following-
↳sibling::gmd:dateType/gmd:CI_DateTypeCode/text() = 'publication']/gco:Date/text())
↳
↳    then //gmd:identificationInfo/*/gmd:citation/gmd:CI_Citation/
↳gmd:date/gmd:CI_Date/gmd:date[following-sibling::gmd:dateType/gmd:CI_DateTypeCode/
↳text() = 'publication']/gco:Date/text()
↳    else if (//gmd:identificationInfo/
↳*/gmd:citation/gmd:CI_Citation/gmd:date/gmd:CI_Date/gmd:date[following-
↳sibling::gmd:dateType/gmd:CI_DateTypeCode/text() = 'publication']/gco:DateTime/
↳text())
↳    then //gmd:identificationInfo/*/gmd:citation/gmd:CI_
↳Citation/gmd:date/gmd:CI_Date/gmd:date[following-sibling::gmd:dateType/gmd:CI_
↳DateTypeCode/text() = 'publication']/gco:DateTime/text()
↳    else if (//
↳gmd:identificationInfo/*/gmd:citation/gmd:CI_Citation/gmd:date/gmd:CI_Date/gmd:date/
↳gco:Date[1]/text())
↳    then //gmd:identificationInfo/*/gmd:citation/
↳gmd:CI_Citation/gmd:date/gmd:CI_Date/gmd:date/gco:Date[1]/text()
↳    else if
↳(//gmd:identificationInfo/*/gmd:citation/gmd:CI_Citation/gmd:date/gmd:CI_Date/
↳gmd:date/gco:DateTime[1]/text())
↳    then //gmd:identificationInfo/*/
↳gmd:citation/gmd:CI_Citation/gmd:date/gmd:CI_Date/gmd:date/gco:DateTime[1]/text()
↳
↳    else ()"/>
    <property name="converter" ref="dateConverter"/>
</bean>

```

### 22.3.9 isotc.beginDate

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.beginDate" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="beginDate"/>
    <constructor-arg name="xpath" value="//gmd:identificationInfo/gmd:MD_
↳DataIdentification/gmd:extent/gmd:EX_Extent/gmd:temporalElement/gmd:EX_
↳TemporalExtent/gmd:extent/*[local-name() = 'TimePeriod']/*[local-name() =
↳'beginPosition']/text()"/>
    <property name="converter" ref="dateConverter"/>
</bean>

```

### 22.3.10 isotc.endDate

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.endDate" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="endDate"/>
    <constructor-arg name="xpath" value="//gmd:identificationInfo/gmd:MD_
↳DataIdentification/gmd:extent/gmd:EX_Extent/gmd:temporalElement/gmd:EX_
↳TemporalExtent/gmd:extent/*[local-name() = 'TimePeriod']/*[local-name() =
↳'endPosition']/text()"/>
    <property name="converter" ref="dateConverter"/>
</bean>
```

### 22.3.11 isotc.title

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.title" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="title"/>
    <constructor-arg name="xpath" value="//gmd:identificationInfo/gmd:MD_
↳DataIdentification/gmd:citation/gmd:CI_Citation/gmd:title/gco:CharacterString/
↳text() | //gmd:identificationInfo/gmd:MD_DataIdentification/gmd:citation/gmd:CI_
↳Citation/gmd:title/gmx:Anchor/text()"/>
</bean>
```

### 22.3.12 isotc.keywords

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.keywords" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="keywords"/>
    <constructor-arg name="xpath" value="//gmd:identificationInfo/gmd:MD_
↳DataIdentification/gmd:descriptiveKeywords/gmd:MD_Keywords/gmd:keyword/gmx:Anchor/
↳text() | //gmd:identificationInfo/gmd:MD_DataIdentification/gmd:descriptiveKeywords/
↳gmd:MD_Keywords/gmd:keyword/gco:CharacterString/text()"/>
    <property name="multivalue" value="true"/>
</bean>
```

### 22.3.13 isotc.eastBoundCoord

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.eastBoundCoord" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="eastBoundCoord"/>
    <constructor-arg name="xpath" value="//gmd:identificationInfo/gmd:MD_
↳DataIdentification/gmd:extent/gmd:EX_Extent/gmd:geographicElement/gmd:EX_
↳GeographicBoundingBox/gmd:eastBoundLongitude/gco:Decimal/text()"/>
</bean>
```



### 22.3.14 isotc.westBoundCoord

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.westBoundCoord" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="westBoundCoord"/>
    <constructor-arg name="xpath" value="//gmd:identificationInfo/gmd:MD_
↳DataIdentification/gmd:extent/gmd:EX_Extent/gmd:geographicElement/gmd:EX_
↳GeographicBoundingBox/gmd:westBoundLongitude/gco:Decimal/text ()"/>
</bean>
```

### 22.3.15 isotc.southBoundCoord

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.southBoundCoord" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="southBoundCoord"/>
    <constructor-arg name="xpath" value="//gmd:identificationInfo/gmd:MD_
↳DataIdentification/gmd:extent/gmd:EX_Extent/gmd:geographicElement/gmd:EX_
↳GeographicBoundingBox/gmd:southBoundLatitude/gco:Decimal/text ()"/>
</bean>
```

### 22.3.16 isotc.northBoundCoord

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.northBoundCoord" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="northBoundCoord"/>
    <constructor-arg name="xpath" value="//gmd:identificationInfo/gmd:MD_
↳DataIdentification/gmd:extent/gmd:EX_Extent/gmd:geographicElement/gmd:EX_
↳GeographicBoundingBox/gmd:northBoundLatitude/gco:Decimal/text ()"/>
</bean>
```

### 22.3.17 isotc.geohash9

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.geohash9" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="true" p:root-ref="isotc.geohashRoot">
    <constructor-arg name="name" value="geohash_9"/>
    <property name="converter" ref="geohashConverter_9"/>
</bean>
```

### 22.3.18 isotc.geohash1

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.geohash1" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="true" p:root-ref="isotc.geohashRoot">
    <constructor-arg name="name" value="geohash_1"/>
```

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```

    <property name="converter" ref="geohashConverter_1"/>
</bean>

```

### 22.3.19 isotc.geohash2

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.geohash2" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="true" p:root-ref="isotc.geohashRoot">
    <constructor-arg name="name" value="geohash_2"/>
    <property name="converter" ref="geohashConverter_2"/>
</bean>

```

### 22.3.20 isotc.geohash3

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.geohash3" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="true" p:root-ref="isotc.geohashRoot">
    <constructor-arg name="name" value="geohash_3"/>
    <property name="converter" ref="geohashConverter_3"/>
</bean>

```

### 22.3.21 isotc.geohash4

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.geohash4" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="true" p:root-ref="isotc.geohashRoot">
    <constructor-arg name="name" value="geohash_4"/>
    <property name="converter" ref="geohashConverter_4"/>
</bean>

```

### 22.3.22 isotc.geohash5

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.geohash5" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="true" p:root-ref="isotc.geohashRoot">
    <constructor-arg name="name" value="geohash_5"/>
    <property name="converter" ref="geohashConverter_5"/>
</bean>

```

### 22.3.23 isotc.geohash6

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.geohash6" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="true" p:root-ref="isotc.geohashRoot">
    <constructor-arg name="name" value="geohash_6"/>
    <property name="converter" ref="geohashConverter_6"/>
</bean>

```

### 22.3.24 isotc.geohash7

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.geohash7" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="true" p:root-ref="isotc.geohashRoot">
    <constructor-arg name="name" value="geohash_7"/>
    <property name="converter" ref="geohashConverter_7"/>
</bean>

```

### 22.3.25 isotc.geohash8

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.geohash8" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="true" p:root-ref="isotc.geohashRoot">
    <constructor-arg name="name" value="geohash_8"/>
    <property name="converter" ref="geohashConverter_8"/>
</bean>

```

### 22.3.26 isotc.isService

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.isService" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="isService"/>
    <constructor-arg name="xpath" value="boolean(//srv:SV_
↳ServiceIdentification or //gmd:distributionInfo/gmd:MD_Distribution)"/>
</bean>

```

### 22.3.27 isotc.serviceCoupling

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.serviceCoupling" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="serviceCoupling"/>
    <constructor-arg name="xpath" value="concat( substring('loose', 1 div
↳number(boolean( //srv:SV_ServiceIdentification/srv:couplingType/srv:SV_CouplingType/
↳@codeListValue = 'loose'))), substring('tight', 1 div number(boolean( //
↳srv:SV_ServiceIdentification/srv:couplingType/srv:SV_CouplingType/@codeListValue =
↳'tight'))), substring('tight', 1 div number(boolean( //gmd:distributionInfo/
↳gmd:MD_Distribution and not(//srv:SV_ServiceIdentification/srv:couplingType/srv:SV_
↳CouplingType/@codeListValue))), substring('', 1 div number(boolean( not(
↳//srv:SV_ServiceIdentification/srv:couplingType/srv:SV_CouplingType/@codeListValue)
↳and not( //gmd:distributionInfo/gmd:MD_Distribution))))"/>

```

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```
</bean>
```

### 22.3.28 isotc.serviceTitle

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.serviceTitle" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="serviceTitle"/>
    <constructor-arg name="xpath" value="//srv:SV_ServiceIdentification/
↳gmd:citation/gmd:CI_Citation/gmd:title/gco:CharacterString | //gmd:distributionInfo/
↳gmd:MD_Distribution/gmd:distributor/gmd:MD_Distributor/
↳gmd:distributorTransferOptions/gmd:MD_DigitalTransferOptions/gmd:onLine/gmd:CI_
↳OnlineResource/gmd:name/gco:CharacterString)/text () "/>
    <property name="combineNodes" value="true"/>
    <property name="combineDelimiter" value=":"/>
</bean>
```

### 22.3.29 isotc.serviceDescription

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.serviceDescription" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="serviceDescription"/>
    <constructor-arg name="xpath" value="//srv:SV_ServiceIdentification/
↳gmd:abstract/gco:CharacterString | //gmd:distributionInfo/gmd:MD_Distribution/
↳gmd:distributor/gmd:MD_Distributor/gmd:distributorTransferOptions/gmd:MD_
↳DigitalTransferOptions/gmd:onLine/gmd:CI_OnlineResource/gmd:description/
↳gco:CharacterString)/text () "/>
    <property name="combineNodes" value="true"/>
    <property name="combineDelimiter" value=":"/>
</bean>
```

### 22.3.30 isotc.serviceType

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.serviceType" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="serviceType"/>
    <constructor-arg name="xpath" value="//srv:SV_ServiceIdentification/
↳srv:serviceType/gco:LocalName/text () "/>
    <property name="multivalue" value="true"/>
    <property name="converter" ref="serviceTypesConverter"/>
</bean>
```

### 22.3.31 isotc.serviceEndpoint

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.serviceEndpoint" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="serviceEndpoint"/>
    <constructor-arg name="xpath" value="//srv:SV_ServiceIdentification/
↳srv:containsOperations/srv:SV_OperationMetadata/srv:connectPoint/gmd:CI_
↳OnlineResource/gmd:linkage/gmd:URL/text () "/>
    <property name="multivalue" value="true"/>
</bean>

```

### 22.3.32 isotc.serviceInput

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.serviceInput" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="serviceInput"/>
    <constructor-arg name="xpath" value="//srv:SV_ServiceIdentification/
↳srv:operatesOn/@xlink:href"/>
    <property name="multivalue" value="true"/>
</bean>

```

### 22.3.33 isotc.serviceOutput

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.serviceOutput" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="serviceOutput"/>
    <constructor-arg name="xpath" value="//srv:SV_ServiceIdentification/
↳gmd:resourceFormat/@xlink:href"/>
    <property name="multivalue" value="true"/>
</bean>

```

### 22.3.34 isotc.distribServiceType

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.distribServiceType" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="serviceType"/>
    <constructor-arg name="xpath" value="//gmd:distributionInfo/gmd:MD_
↳Distribution/gmd:distributor/gmd:MD_Distributor/gmd:distributorTransferOptions/
↳gmd:MD_DigitalTransferOptions/gmd:onLine/gmd:CI_OnlineResource/gmd:protocol/
↳gco:CharacterString/text () "/>
    <property name="multivalue" value="true"/>
    <property name="converter" ref="serviceTypesConverter"/>
</bean>

```

### 22.3.35 isotc.distribServiceEndpoint

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.distribServiceEndpoint" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="serviceEndpoint" />
    <constructor-arg name="xpath" value="//gmd:distributionInfo/gmd:MD_
↳Distribution/gmd:distributor/gmd:MD_Distributor/gmd:distributorTransferOptions/
↳gmd:MD_DigitalTransferOptions/gmd:onLine/gmd:CI_OnlineResource/gmd:linkage/gmd:URL/
↳text() | //gmd:distributionInfo/gmd:MD_Distribution/gmd:transferOptions/gmd:MD_
↳DigitalTransferOptions/gmd:onLine/gmd:CI_OnlineResource/gmd:linkage/gmd:URL/text()"/
↳>
    <property name="multivalue" value="true" />
</bean>

```

### 22.3.36 isotc.distribServiceInput

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.distribServiceInput" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="serviceInput" />
    <constructor-arg name="xpath" value="//gmd:distributionInfo/gmd:MD_
↳Distribution/gmd:distributor/gmd:MD_Distributor/gmd:distributorTransferOptions/
↳@xlink:href"/>
    <property name="multivalue" value="true" />
</bean>

```

### 22.3.37 isotc.distribServiceOutput

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.distribServiceOutput" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="serviceOutput" />
    <constructor-arg name="xpath" value="//gmd:distributionInfo/gmd:MD_
↳Distribution/gmd:distributor/gmd:MD_Distributor/gmd:distributorFormat/gmd:MD_Format/
↳gmd:version/gco:CharacterString/text()"/>
    <property name="multivalue" value="true" />
</bean>

```

### 22.3.38 isotc.fileID

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.fileID" class="org.dataone.cn.indexer.parser.ResolveSolrField">
    <constructor-arg name="name" value="fileID" />
</bean>

```

### 22.3.39 isotc.fullText

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.fullText" class="org.dataone.cn.indexer.parser.FullTextSolrField">
    <constructor-arg name="name" value="text"/>
    <constructor-arg name="xpath" value="//*/text()"/>
    <property name="combineNodes" value="true"/>
</bean>
```





Describes parser configuration for: isotc211Subprocessor

## 23.1 Format IDs Processed

This parser processes the following DataONE format IDs:

- Geographic MetaData (GMD) Extensible Markup Language  
formatId: <http://www.isotc211.org/2005/gmd>

A full list of DataONE format IDs can be found at <https://cn.dataone.org/cn/v2/formats/>

## 23.2 Fields

The following fields in the solr index are populated from values retrieved from this type of metadata document. Note that these are in addition to the information extracted from *System Metadata Parser*.

Solr Field	Multi	Dedupe	Source
<i>Index.abstract</i>	False	False	<pre>//gmd:identificationInfo/gmd:MD_ ↔DataIdentification/ gmd:abstract/gco:CharacterString/text ()</pre> <p>Processor: SolrField Configuration: <i>isotc.abstract</i></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.author</i>	False	False	<pre>(//gmd:CI_ResponsibleParty/gmd:individualName/ gco:CharacterString/text()   // gmd:CI_ResponsibleParty/gmd:individualName/ gmx:Anchor/text())[1]</pre> <p>Processor: SolrField Configuration: <i>isotc.author</i></p>
<i>Index.authorSurName</i>	False	False	<pre>(//gmd:CI_ResponsibleParty/gmd:individualName/ gco:CharacterString/text()   // gmd:CI_ResponsibleParty/gmd:individualName/ gmx:Anchor/text())[1]</pre> <p>Processor: SolrField Configuration: <i>isotc.authorSurName</i></p>
<i>Index.authorSurNameSort</i>	False	False	<pre>(//gmd:CI_ResponsibleParty/gmd:individualName/ gco:CharacterString/text()   // gmd:CI_ResponsibleParty/gmd:individualName/ gmx:Anchor/text())[1]</pre> <p>Processor: SolrField Configuration: <i>isotc.authorSurNameSort</i></p>
<i>Index.contactOrganization</i>	False	False	<pre>(//gmd:CI_ResponsibleParty/gmd:organisationName/ gco:CharacterString/text())[1]</pre> <p>Processor: SolrField Configuration: <i>isotc.contactOrganization</i></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.origin</i>	True	True	<pre>//gmd:CI_ResponsibleParty[gmd:role/gmd:CI_ ↪RoleCode/text() = "owner" or gmd:role/gmd:CI_RoleCode/text() = "originator" or gmd:role/gmd:CI_RoleCode/text() ↪= "principalInvestigator" or gmd:role/gmd:CI_ ↪RoleCode/ text() = "author"]/gmd:individualName/ gco:CharacterString/text()   // gmd:CI_ResponsibleParty[(gmd:role/gmd:CI_ ↪RoleCode/ text() = "owner" or gmd:role/gmd:CI_RoleCode/ ↪text() = "originator" or gmd:role/gmd:CI_RoleCode/ ↪text() = "principalInvestigator" or gmd:role/gmd:CI_ ↪RoleCode/ text() = "author") and (not(gmd:individualName) ↪or gmd:individualName[@gco:nilReason = "missing ↪")]]/ gmd:organisationName/gco:CharacterString/text()</pre> <p>Processor: SolrField Configuration: <i>isotc.origin</i></p>
<i>Index.investigator</i>	True	True	<pre>//gmd:CI_ResponsibleParty/gmd:individualName/ gco:CharacterString/text()   // gmd:CI_ResponsibleParty/gmd:individualName/ gmx:Anchor/text()</pre> <p>Processor: SolrField Configuration: <i>isotc.investigator</i></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.pubDate</i>	False	False	<pre> <b>if</b> (//gmd:identificationInfo/*/gmd:citation/ ↪gmd:CI_Citation/ gmd:date/gmd:CI_Date/gmd:date[ following-sibling::gmd:dateType/gmd:CI_ ↪DateTypeCode/ text() = 'publication']/gco:Date/text())     then //gmd:identificationInfo/*/ ↪gmd:citation/ gmd:CI_Citation/gmd:date/gmd:CI_Date/gmd:date[ following-sibling::gmd:dateType/gmd:CI_ ↪DateTypeCode/ text() = 'publication']/gco:Date/text() <b>else if</b> (//gmd:identificationInfo/*/ ↪gmd:citation/ gmd:CI_Citation/gmd:date/gmd:CI_Date/gmd:date[ following-sibling::gmd:dateType/gmd:CI_ ↪DateTypeCode/ text() = 'publication']/gco:DateTime/text())     then //gmd:identificationInfo/*/ gmd:citation/gmd:CI_Citation/gmd:date/gmd:CI_ ↪Date/ gmd:date[following-sibling::gmd:dateType/ gmd:CI_DateTypeCode/text() = 'publication']/ gco:DateTime/text()     <b>else if</b> (// gmd:identificationInfo/*/gmd:citation/ gmd:CI_Citation/gmd:date/gmd:CI_Date/gmd:date/ gco:Date[1]/text())         then // gmd:identificationInfo/*/gmd:citation/ gmd:CI_Citation/gmd:date/gmd:CI_Date/gmd:date/ gco:Date[1]/text()     <b>else if</b> (// gmd:identificationInfo/*/gmd:citation/ gmd:CI_Citation/gmd:date/gmd:CI_Date/gmd:date/ gco:DateTime[1]/text())         then // gmd:identificationInfo/*/gmd:citation/ gmd:CI_Citation/gmd:date/gmd:CI_Date/gmd:date/ gco:DateTime[1]/text()     <b>else</b> ()  Processor: SolrField Configuration: <i>isotc.pubDate</i> Converter: SolrDateConverter </pre>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.beginDate</i>	False	False	<pre>//gmd:identificationInfo/gmd:MD_ ↪DataIdentification/ gmd:extent/gmd:EX_Extent/gmd:temporalElement/ gmd:EX_TemporalExtent/gmd:extent/*[local-name() = ↪= 'TimePeriod']/*[local-name() = 'beginPosition']/ text()</pre> <p>Processor: SolrField Configuration: <i>isotc.beginDate</i> Converter: SolrDateConverter</p>
<i>Index.endDate</i>	False	False	<pre>//gmd:identificationInfo/gmd:MD_ ↪DataIdentification/ gmd:extent/gmd:EX_Extent/gmd:temporalElement/ gmd:EX_TemporalExtent/gmd:extent/*[local-name() = ↪= 'TimePeriod']/*[local-name() = 'endPosition']/ ↪text()</pre> <p>Processor: SolrField Configuration: <i>isotc.endDate</i> Converter: SolrDateConverter</p>
<i>Index.title</i>	False	False	<pre>//gmd:identificationInfo/gmd:MD_ ↪DataIdentification/ gmd:citation/gmd:CI_Citation/gmd:title/ gco:CharacterString/text()   // gmd:identificationInfo/gmd:MD_ ↪DataIdentification/ gmd:citation/gmd:CI_Citation/gmd:title/ ↪gmx:Anchor/ text()</pre> <p>Processor: SolrField Configuration: <i>isotc.title</i></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.keywords</i>	True	False	<pre>//gmd:identificationInfo/gmd:MD_ ↔DataIdentification/ gmd:descriptiveKeywords/gmd:MD_Keywords/ ↔gmd:keyword/ gmx:Anchor/text ()   //gmd:identificationInfo/ gmd:MD_DataIdentification/ ↔gmd:descriptiveKeywords/ gmd:MD_Keywords/gmd:keyword/gco:CharacterString/ text ()</pre> <p>Processor: SolrField Configuration: <i>isotc.keywords</i></p>
<i>Index.eastBoundCoord</i>	False	False	<pre>//gmd:identificationInfo/gmd:MD_ ↔DataIdentification/ gmd:extent/gmd:EX_Extent/gmd:geographicElement/ gmd:EX_GeographicBoundingBox/ ↔gmd:eastBoundLongitude/ gco:Decimal/text ()</pre> <p>Processor: SolrField Configuration: <i>isotc.eastBoundCoord</i></p>
<i>Index.westBoundCoord</i>	False	False	<pre>//gmd:identificationInfo/gmd:MD_ ↔DataIdentification/ gmd:extent/gmd:EX_Extent/gmd:geographicElement/ gmd:EX_GeographicBoundingBox/ ↔gmd:westBoundLongitude/ gco:Decimal/text ()</pre> <p>Processor: SolrField Configuration: <i>isotc.westBoundCoord</i></p>
<i>Index.southBoundCoord</i>	False	False	<pre>//gmd:identificationInfo/gmd:MD_ ↔DataIdentification/ gmd:extent/gmd:EX_Extent/gmd:geographicElement/ gmd:EX_GeographicBoundingBox/ ↔gmd:southBoundLatitude/ gco:Decimal/text ()</pre> <p>Processor: SolrField Configuration: <i>isotc.southBoundCoord</i></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.northBoundCoord</i>	False	False	<pre>//gmd:identificationInfo/gmd:MD_ ↳DataIdentification/ gmd:extent/gmd:EX_Extent/gmd:geographicElement/ gmd:EX_GeographicBoundingBox/ ↳gmd:northBoundLatitude/ gco:Decimal/text()</pre> <p>Processor: <a href="#">SolrField</a>  Configuration: <i>isotc.northBoundCoord</i></p>
<i>Index.geohash_9</i>	False		<pre>//gmd:identificationInfo/gmd:MD_ ↳DataIdentification/ gmd:extent/gmd:EX_Extent/gmd:geographicElement/ gmd:EX_GeographicBoundingBox -&gt;{[[ northBoundingCoordinate]_ ↳[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↳[westBoundingCoordinate]}}; northBoundingCoordinate =_ ↳gmd:northBoundLatitude/ gco:Decimal/text(); southBoundingCoordinate = gmd:southBoundLatitude/gco:Decimal/text(); eastBoundingCoordinate = gmd:eastBoundLongitude/ gco:Decimal/text(); westBoundingCoordinate = gmd:westBoundLongitude/gco:Decimal/text()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>isotc.geohash9</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_1</i>	False		<pre>//gmd:identificationInfo/gmd:MD_ ↔DataIdentification/ gmd:extent/gmd:EX_Extent/gmd:geographicElement/ gmd:EX_GeographicBoundingBox -&gt;{[[ northBoundingCoordinate]_ ↔[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↔[westBoundingCoordinate]}}; northBoundingCoordinate =_ ↔gmd:northBoundLatitude/ gco:Decimal/text (); southBoundingCoordinate = gmd:southBoundLatitude/gco:Decimal/text (); eastBoundingCoordinate = gmd:eastBoundLongitude/ gco:Decimal/text (); westBoundingCoordinate = gmd:westBoundLongitude/gco:Decimal/text ()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>isotc.geohash1</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>
<i>Index.geohash_2</i>	False		<pre>//gmd:identificationInfo/gmd:MD_ ↔DataIdentification/ gmd:extent/gmd:EX_Extent/gmd:geographicElement/ gmd:EX_GeographicBoundingBox -&gt;{[[ northBoundingCoordinate]_ ↔[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↔[westBoundingCoordinate]}}; northBoundingCoordinate =_ ↔gmd:northBoundLatitude/ gco:Decimal/text (); southBoundingCoordinate = gmd:southBoundLatitude/gco:Decimal/text (); eastBoundingCoordinate = gmd:eastBoundLongitude/ gco:Decimal/text (); westBoundingCoordinate = gmd:westBoundLongitude/gco:Decimal/text ()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>isotc.geohash2</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_3</i>	False		<pre>//gmd:identificationInfo/gmd:MD_ ↔DataIdentification/ gmd:extent/gmd:EX_Extent/gmd:geographicElement/ gmd:EX_GeographicBoundingBox -&gt;{[[ northBoundingCoordinate]_ ↔[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↔[westBoundingCoordinate]}}; northBoundingCoordinate =_ ↔gmd:northBoundLatitude/ gco:Decimal/text (); southBoundingCoordinate = gmd:southBoundLatitude/gco:Decimal/text (); eastBoundingCoordinate = gmd:eastBoundLongitude/ gco:Decimal/text (); westBoundingCoordinate = gmd:westBoundLongitude/gco:Decimal/text ()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>isotc.geohash3</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>
<i>Index.geohash_4</i>	False		<pre>//gmd:identificationInfo/gmd:MD_ ↔DataIdentification/ gmd:extent/gmd:EX_Extent/gmd:geographicElement/ gmd:EX_GeographicBoundingBox -&gt;{[[ northBoundingCoordinate]_ ↔[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↔[westBoundingCoordinate]}}; northBoundingCoordinate =_ ↔gmd:northBoundLatitude/ gco:Decimal/text (); southBoundingCoordinate = gmd:southBoundLatitude/gco:Decimal/text (); eastBoundingCoordinate = gmd:eastBoundLongitude/ gco:Decimal/text (); westBoundingCoordinate = gmd:westBoundLongitude/gco:Decimal/text ()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>isotc.geohash4</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_5</i>	False		<pre>//gmd:identificationInfo/gmd:MD_ ↳DataIdentification/ gmd:extent/gmd:EX_Extent/gmd:geographicElement/ gmd:EX_GeographicBoundingBox -&gt;{[[ northBoundingCoordinate]_ ↳[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↳[westBoundingCoordinate]}}; northBoundingCoordinate =_ ↳gmd:northBoundLatitude/ gco:Decimal/text (); southBoundingCoordinate = gmd:southBoundLatitude/gco:Decimal/text (); eastBoundingCoordinate = gmd:eastBoundLongitude/ gco:Decimal/text (); westBoundingCoordinate = gmd:westBoundLongitude/gco:Decimal/text ()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>isotc.geohash5</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>
<i>Index.geohash_6</i>	False		<pre>//gmd:identificationInfo/gmd:MD_ ↳DataIdentification/ gmd:extent/gmd:EX_Extent/gmd:geographicElement/ gmd:EX_GeographicBoundingBox -&gt;{[[ northBoundingCoordinate]_ ↳[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↳[westBoundingCoordinate]}}; northBoundingCoordinate =_ ↳gmd:northBoundLatitude/ gco:Decimal/text (); southBoundingCoordinate = gmd:southBoundLatitude/gco:Decimal/text (); eastBoundingCoordinate = gmd:eastBoundLongitude/ gco:Decimal/text (); westBoundingCoordinate = gmd:westBoundLongitude/gco:Decimal/text ()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>isotc.geohash6</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_7</i>	False		<pre>//gmd:identificationInfo/gmd:MD_ ↳DataIdentification/ gmd:extent/gmd:EX_Extent/gmd:geographicElement/ gmd:EX_GeographicBoundingBox -&gt;{[[ northBoundingCoordinate]_ ↳[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↳[westBoundingCoordinate]}}; northBoundingCoordinate =_ ↳gmd:northBoundLatitude/ gco:Decimal/text (); southBoundingCoordinate = gmd:southBoundLatitude/gco:Decimal/text (); eastBoundingCoordinate = gmd:eastBoundLongitude/ gco:Decimal/text (); westBoundingCoordinate = gmd:westBoundLongitude/gco:Decimal/text ()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>isotc.geohash7</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>
<i>Index.geohash_8</i>	False		<pre>//gmd:identificationInfo/gmd:MD_ ↳DataIdentification/ gmd:extent/gmd:EX_Extent/gmd:geographicElement/ gmd:EX_GeographicBoundingBox -&gt;{[[ northBoundingCoordinate]_ ↳[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↳[westBoundingCoordinate]}}; northBoundingCoordinate =_ ↳gmd:northBoundLatitude/ gco:Decimal/text (); southBoundingCoordinate = gmd:southBoundLatitude/gco:Decimal/text (); eastBoundingCoordinate = gmd:eastBoundLongitude/ gco:Decimal/text (); westBoundingCoordinate = gmd:westBoundLongitude/gco:Decimal/text ()</pre> <p>Processor: <a href="#">CommonRootSolrField</a>  Configuration: <i>isotc.geohash8</i>  Notes: This bean uses a template populated from additional sources. See configuration for more details.  Converter: <a href="#">GeohashConverter</a></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.isService</i>	False	False	<pre>boolean(//srv:SV_ServiceIdentification or // gmd:distributionInfo/gmd:MD_Distribution)</pre> <p>Processor: SolrField Configuration: <i>isotc.isService</i></p>
<i>Index.serviceCoupling</i>	False	False	<pre>concat( substring('loose', 1 div_ ↪number(boolean( // srv:SV_ServiceIdentification/srv:couplingType/ srv:SV_CouplingType/@codeListValue = 'loose'))), substring('tight', 1 div number(boolean( // srv:SV_ServiceIdentification/srv:couplingType/ srv:SV_CouplingType/@codeListValue = 'tight'))), substring('tight', 1 div number(boolean( // gmd:distributionInfo/gmd:MD_Distribution and_ ↪not( // srv:SV_ServiceIdentification/srv:couplingType/ srv:SV_CouplingType/@codeListValue))) , substring(' ', 1 div number(boolean( not( // srv:SV_ServiceIdentification/srv:couplingType/ srv:SV_CouplingType/@codeListValue) and not( //gmd:distributionInfo/ gmd:MD_Distribution))))))</pre> <p>Processor: SolrField Configuration: <i>isotc.serviceCoupling</i></p>
<i>Index.serviceTitle</i>	False	False	<pre>(//srv:SV_ServiceIdentification/gmd:citation/ gmd:CI_Citation/gmd:title/gco:CharacterString  _ ↪// gmd:distributionInfo/gmd:MD_Distribution/ gmd:distributor/gmd:MD_Distributor/ gmd:distributorTransferOptions/ gmd:MD_DigitalTransferOptions/gmd:onLine/ gmd:CI_OnlineResource/gmd:name/ ↪gco:CharacterString) / text()</pre> <p>Processor: SolrField Configuration: <i>isotc.serviceTitle</i></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.serviceDescription</i>	False	False	<pre> (//srv:SV_ServiceIdentification/gmd:abstract/ gco:CharacterString   //gmd:distributionInfo/ gmd:MD_Distribution/gmd:distributor/ gmd:MD_Distributor/ ↔gmd:distributorTransferOptions/ gmd:MD_DigitalTransferOptions/gmd:onLine/ gmd:CI_OnlineResource/gmd:description/ gco:CharacterString)/text ()  Processor: SolrField Configuration: <i>isotc.serviceDescription</i> </pre>
<i>Index.serviceType</i>	True	False	<pre> //srv:SV_ServiceIdentification/srv:serviceType/ gco:LocalName/text ()  Processor: SolrField Configuration: <i>isotc.serviceType</i>  Converter: MemberNodeServiceRegistrationTypeConverter </pre>
<i>Index.serviceEndpoint</i>	True	False	<pre> //srv:SV_ServiceIdentification/ ↔srv:containsOperations/ srv:SV_OperationMetadata/srv:connectPoint/ gmd:CI_OnlineResource/gmd:linkage/gmd:URL/text ()  Processor: SolrField Configuration: <i>isotc.serviceEndpoint</i> </pre>
<i>Index.serviceInput</i>	True	False	<pre> //srv:SV_ServiceIdentification/srv:operatesOn/ ↔@xlink:href  Processor: SolrField Configuration: <i>isotc.serviceInput</i> </pre>
<i>Index.serviceOutput</i>	True	False	<pre> //srv:SV_ServiceIdentification/ ↔gmd:resourceFormat/ @xlink:href  Processor: SolrField Configuration: <i>isotc.serviceOutput</i> </pre>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.serviceType</i>	True	False	<pre>//gmd:distributionInfo/gmd:MD_Distribution/ ↔gmd:distributor/ gmd:MD_Distributor/ ↔gmd:distributorTransferOptions/ gmd:MD_DigitalTransferOptions/gmd:onLine/ gmd:CI_OnlineResource/gmd:protocol/ gco:CharacterString/text ()</pre> <p><b>Processor:</b> SolrField  <b>Configuration:</b> <i>isotc.distribServiceType</i></p> <p><b>Converter:</b> MemberNodeServiceRegistrationTypeConverter</p>
<i>Index.serviceEndpoint</i>	True	False	<pre>//gmd:distributionInfo/gmd:MD_Distribution/ ↔gmd:distributor/ gmd:MD_Distributor/ ↔gmd:distributorTransferOptions/ gmd:MD_DigitalTransferOptions/gmd:onLine/ gmd:CI_OnlineResource/gmd:linkage/gmd:URL/ ↔text ()   / /gmd:distributionInfo/gmd:MD_Distribution/ gmd:transferOptions/gmd:MD_ ↔DigitalTransferOptions/ gmd:onLine/gmd:CI_OnlineResource/gmd:linkage/ gmd:URL/text ()</pre> <p><b>Processor:</b> SolrField  <b>Configuration:</b> <i>isotc.distribServiceEndpoint</i></p>
<i>Index.serviceInput</i>	True	False	<pre>//gmd:distributionInfo/gmd:MD_Distribution/ ↔gmd:distributor/ gmd:MD_Distributor/ ↔gmd:distributorTransferOptions/ @xlink:href</pre> <p><b>Processor:</b> SolrField  <b>Configuration:</b> <i>isotc.distribServiceInput</i></p>
<i>Index.serviceOutput</i>	True	False	<pre>//gmd:distributionInfo/gmd:MD_Distribution/ ↔gmd:distributor/ gmd:MD_Distributor/gmd:distributorFormat/ gmd:MD_Format/gmd:version/gco:CharacterString/ ↔text ()</pre> <p><b>Processor:</b> SolrField  <b>Configuration:</b> <i>isotc.distribServiceOutput</i></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.fileID</i>			Processor: <code>ResolveSolrField</code> Configuration: <i>isotc.fileID</i> Notes: SolrField which configures the resolve url for the document being processed. Converter:
<i>Index.text</i>	False	False	<pre>/**/text ()</pre> Processor: <code>FullTextSolrField</code> Configuration: <i>isotc.fullText</i>

## 23.3 Bean Configurations

### 23.3.1 isotc.abstract

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.abstract" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="abstract"/>
    <constructor-arg name="xpath" value="//gmd:identificationInfo/gmd:MD_
↳DataIdentification/gmd:abstract/gco:CharacterString/text ()"/>
</bean>
```

### 23.3.2 isotc.author

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.author" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="author"/>
    <constructor-arg name="xpath" value="//gmd:CI_ResponsibleParty/
↳gmd:individualName/gco:CharacterString/text () | //gmd:CI_ResponsibleParty/
↳gmd:individualName/gmx:Anchor/text () [1]"/>
</bean>
```

### 23.3.3 isotc.authorSurName

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.authorSurName" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="authorSurName"/>
    <constructor-arg name="xpath" value="//gmd:CI_ResponsibleParty/
↳gmd:individualName/gco:CharacterString/text () | //gmd:CI_ResponsibleParty/
↳gmd:individualName/gmx:Anchor/text () [1]"/>
</bean>
```

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```

    <property name="multivalue" value="false"/>
</bean>

```

### 23.3.4 isotc.authorSurNameSort

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.authorSurNameSort" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="authorSurNameSort"/>
    <constructor-arg name="xpath" value="//gmd:CI_ResponsibleParty/
↳gmd:individualName/gco:CharacterString/text() | //gmd:CI_ResponsibleParty/
↳gmd:individualName/gmx:Anchor/text()[1]"/>
    <property name="multivalue" value="false"/>
</bean>

```

### 23.3.5 isotc.contactOrganization

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.contactOrganization" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="contactOrganization"/>
    <constructor-arg name="xpath" value="//gmd:CI_ResponsibleParty/
↳gmd:organisationName/gco:CharacterString/text()[1]"/>
</bean>

```

### 23.3.6 isotc.origin

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.origin" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="origin"/>
    <constructor-arg name="xpath" value="//gmd:CI_ResponsibleParty[gmd:role/
↳gmd:CI_RoleCode/text() = &quot;owner&quot; or gmd:role/gmd:CI_RoleCode/text() = &
↳quot;originator&quot; or gmd:role/gmd:CI_RoleCode/text() = &quot;
↳principalInvestigator&quot; or gmd:role/gmd:CI_RoleCode/text() = &quot;author&quot;
↳]/gmd:individualName/gco:CharacterString/text() | //gmd:CI_
↳ResponsibleParty[(gmd:role/gmd:CI_RoleCode/text() = &quot;owner&quot; or gmd:role/
↳gmd:CI_RoleCode/text() = &quot;originator&quot; or gmd:role/gmd:CI_RoleCode/text()
↳= &quot;principalInvestigator&quot; or gmd:role/gmd:CI_RoleCode/text() = &quot;
↳author&quot;)] and (not(gmd:individualName) or gmd:individualName[@gco:nilReason = &
↳quot;missing&quot;])]/gmd:organisationName/gco:CharacterString/text()"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>

```

### 23.3.7 isotc.investigator



```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.investigator" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="investigator"/>
    <constructor-arg name="xpath" value="//gmd:CI_ResponsibleParty/
↳gmd:individualName/gco:CharacterString/text() | //gmd:CI_ResponsibleParty/
↳gmd:individualName/gmx:Anchor/text()"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>

```

### 23.3.8 isotc.pubDate

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.pubDate" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="pubDate"/>
    <constructor-arg name="xpath" value="if (//gmd:identificationInfo/*/
↳gmd:citation/gmd:CI_Citation/gmd:date/gmd:CI_Date/gmd:date[following-
↳sibling::gmd:dateType/gmd:CI_DateTypeCode/text() = 'publication']/gco:Date/text()
↳ then //gmd:identificationInfo/*/gmd:citation/gmd:CI_Citation/
↳gmd:date/gmd:CI_Date/gmd:date[following-sibling::gmd:dateType/gmd:CI_DateTypeCode/
↳text() = 'publication']/gco:Date/text() else if (//gmd:identificationInfo/
↳*/gmd:citation/gmd:CI_Citation/gmd:date/gmd:CI_Date/gmd:date[following-
↳sibling::gmd:dateType/gmd:CI_DateTypeCode/text() = 'publication']/gco:DateTime/
↳text() then //gmd:identificationInfo/*/gmd:citation/gmd:CI_
↳Citation/gmd:date/gmd:CI_Date/gmd:date[following-sibling::gmd:dateType/gmd:CI_
↳DateTypeCode/text() = 'publication']/gco:DateTime/text() else if (//
↳gmd:identificationInfo/*/gmd:citation/gmd:CI_Citation/gmd:date/gmd:CI_Date/gmd:date/
↳gco:Date[1]/text() then //gmd:identificationInfo/*/gmd:citation/
↳gmd:CI_Citation/gmd:date/gmd:CI_Date/gmd:date/gco:Date[1]/text() else if
↳ (//gmd:identificationInfo/*/gmd:citation/gmd:CI_Citation/gmd:date/gmd:CI_Date/
↳gmd:date/gco:DateTime[1]/text() then //gmd:identificationInfo/*/
↳gmd:citation/gmd:CI_Citation/gmd:date/gmd:CI_Date/gmd:date/gco:DateTime[1]/text()
↳ else ()"/>
    <property name="converter" ref="dateConverter"/>
</bean>

```

### 23.3.9 isotc.beginDate

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.beginDate" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="beginDate"/>
    <constructor-arg name="xpath" value="//gmd:identificationInfo/gmd:MD_
↳DataIdentification/gmd:extent/gmd:EX_Extent/gmd:temporalElement/gmd:EX_
↳TemporalExtent/gmd:extent/*[local-name() = 'TimePeriod']/*[local-name() =
↳'beginPosition']/text()"/>
    <property name="converter" ref="dateConverter"/>
</bean>

```

### 23.3.10 isotc.endDate

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.endDate" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="endDate"/>
    <constructor-arg name="xpath" value="//gmd:identificationInfo/gmd:MD_
↳DataIdentification/gmd:extent/gmd:EX_Extent/gmd:temporalElement/gmd:EX_
↳TemporalExtent/gmd:extent/*[local-name() = 'TimePeriod']/*[local-name() =
↳'endPosition']/text()"/>
    <property name="converter" ref="dateConverter"/>
</bean>
```

### 23.3.11 isotc.title

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.title" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="title"/>
    <constructor-arg name="xpath" value="//gmd:identificationInfo/gmd:MD_
↳DataIdentification/gmd:citation/gmd:CI_Citation/gmd:title/gco:CharacterString/
↳text() | //gmd:identificationInfo/gmd:MD_DataIdentification/gmd:citation/gmd:CI_
↳Citation/gmd:title/gmx:Anchor/text()"/>
</bean>
```

### 23.3.12 isotc.keywords

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.keywords" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="keywords"/>
    <constructor-arg name="xpath" value="//gmd:identificationInfo/gmd:MD_
↳DataIdentification/gmd:descriptiveKeywords/gmd:MD_Keywords/gmd:keyword/gmx:Anchor/
↳text() | //gmd:identificationInfo/gmd:MD_DataIdentification/gmd:descriptiveKeywords/
↳gmd:MD_Keywords/gmd:keyword/gco:CharacterString/text()"/>
    <property name="multivalue" value="true"/>
</bean>
```

### 23.3.13 isotc.eastBoundCoord

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.eastBoundCoord" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="eastBoundCoord"/>
    <constructor-arg name="xpath" value="//gmd:identificationInfo/gmd:MD_
↳DataIdentification/gmd:extent/gmd:EX_Extent/gmd:geographicElement/gmd:EX_
↳GeographicBoundingBox/gmd:eastBoundLongitude/gco:Decimal/text()"/>
</bean>
```

### 23.3.14 isotc.westBoundCoord

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.westBoundCoord" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="westBoundCoord"/>
    <constructor-arg name="xpath" value="//gmd:identificationInfo/gmd:MD_
↳DataIdentification/gmd:extent/gmd:EX_Extent/gmd:geographicElement/gmd:EX_
↳GeographicBoundingBox/gmd:westBoundLongitude/gco:Decimal/text ()"/>
</bean>
```

### 23.3.15 isotc.southBoundCoord

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.southBoundCoord" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="southBoundCoord"/>
    <constructor-arg name="xpath" value="//gmd:identificationInfo/gmd:MD_
↳DataIdentification/gmd:extent/gmd:EX_Extent/gmd:geographicElement/gmd:EX_
↳GeographicBoundingBox/gmd:southBoundLatitude/gco:Decimal/text ()"/>
</bean>
```

### 23.3.16 isotc.northBoundCoord

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.northBoundCoord" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="northBoundCoord"/>
    <constructor-arg name="xpath" value="//gmd:identificationInfo/gmd:MD_
↳DataIdentification/gmd:extent/gmd:EX_Extent/gmd:geographicElement/gmd:EX_
↳GeographicBoundingBox/gmd:northBoundLatitude/gco:Decimal/text ()"/>
</bean>
```

### 23.3.17 isotc.geohash9

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.geohash9" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="true" p:root-ref="isotc.geohashRoot">
    <constructor-arg name="name" value="geohash_9"/>
    <property name="converter" ref="geohashConverter_9"/>
</bean>
```

### 23.3.18 isotc.geohash1

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.geohash1" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="true" p:root-ref="isotc.geohashRoot">
    <constructor-arg name="name" value="geohash_1"/>
```

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```
</bean>
  <property name="converter" ref="geohashConverter_1"/>
</bean>
```

### 23.3.19 isotc.geohash2

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.geohash2" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="true" p:root-ref="isotc.geohashRoot">
  <constructor-arg name="name" value="geohash_2"/>
  <property name="converter" ref="geohashConverter_2"/>
</bean>
```

### 23.3.20 isotc.geohash3

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.geohash3" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="true" p:root-ref="isotc.geohashRoot">
  <constructor-arg name="name" value="geohash_3"/>
  <property name="converter" ref="geohashConverter_3"/>
</bean>
```

### 23.3.21 isotc.geohash4

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.geohash4" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="true" p:root-ref="isotc.geohashRoot">
  <constructor-arg name="name" value="geohash_4"/>
  <property name="converter" ref="geohashConverter_4"/>
</bean>
```

### 23.3.22 isotc.geohash5

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.geohash5" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="true" p:root-ref="isotc.geohashRoot">
  <constructor-arg name="name" value="geohash_5"/>
  <property name="converter" ref="geohashConverter_5"/>
</bean>
```

### 23.3.23 isotc.geohash6

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.geohash6" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="true" p:root-ref="isotc.geohashRoot">
    <constructor-arg name="name" value="geohash_6"/>
    <property name="converter" ref="geohashConverter_6"/>
</bean>

```

### 23.3.24 isotc.geohash7

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.geohash7" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="true" p:root-ref="isotc.geohashRoot">
    <constructor-arg name="name" value="geohash_7"/>
    <property name="converter" ref="geohashConverter_7"/>
</bean>

```

### 23.3.25 isotc.geohash8

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.geohash8" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="true" p:root-ref="isotc.geohashRoot">
    <constructor-arg name="name" value="geohash_8"/>
    <property name="converter" ref="geohashConverter_8"/>
</bean>

```

### 23.3.26 isotc.isService

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.isService" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="isService"/>
    <constructor-arg name="xpath" value="boolean(//srv:SV_
↳ServiceIdentification or //gmd:distributionInfo/gmd:MD_Distribution)"/>
</bean>

```

### 23.3.27 isotc.serviceCoupling

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.serviceCoupling" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="serviceCoupling"/>
    <constructor-arg name="xpath" value="concat( substring('loose', 1 div
↳number(boolean( //srv:SV_ServiceIdentification/srv:couplingType/srv:SV_CouplingType/
↳@codeListValue = 'loose'))), substring('tight', 1 div number(boolean( //
↳srv:SV_ServiceIdentification/srv:couplingType/srv:SV_CouplingType/@codeListValue =
↳'tight'))), substring('tight', 1 div number(boolean( //gmd:distributionInfo/
↳gmd:MD_Distribution and not(//srv:SV_ServiceIdentification/srv:couplingType/srv:SV_
↳CouplingType/@codeListValue))), substring('', 1 div number(boolean( not(
↳//srv:SV_ServiceIdentification/srv:couplingType/srv:SV_CouplingType/@codeListValue)
↳and not( //gmd:distributionInfo/gmd:MD_Distribution))))"/>

```

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```
</bean>
```

### 23.3.28 isotc.serviceTitle

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.serviceTitle" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="serviceTitle"/>
    <constructor-arg name="xpath" value="//srv:SV_ServiceIdentification/
↳gmd:citation/gmd:CI_Citation/gmd:title/gco:CharacterString | //gmd:distributionInfo/
↳gmd:MD_Distribution/gmd:distributor/gmd:MD_Distributor/
↳gmd:distributorTransferOptions/gmd:MD_DigitalTransferOptions/gmd:onLine/gmd:CI_
↳OnlineResource/gmd:name/gco:CharacterString)/text () "/>
    <property name="combineNodes" value="true"/>
    <property name="combineDelimiter" value=":"/>
</bean>
```

### 23.3.29 isotc.serviceDescription

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.serviceDescription" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="serviceDescription"/>
    <constructor-arg name="xpath" value="//srv:SV_ServiceIdentification/
↳gmd:abstract/gco:CharacterString | //gmd:distributionInfo/gmd:MD_Distribution/
↳gmd:distributor/gmd:MD_Distributor/gmd:distributorTransferOptions/gmd:MD_
↳DigitalTransferOptions/gmd:onLine/gmd:CI_OnlineResource/gmd:description/
↳gco:CharacterString)/text () "/>
    <property name="combineNodes" value="true"/>
    <property name="combineDelimiter" value=":"/>
</bean>
```

### 23.3.30 isotc.serviceType

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.serviceType" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="serviceType"/>
    <constructor-arg name="xpath" value="//srv:SV_ServiceIdentification/
↳srv:serviceType/gco:LocalName/text () "/>
    <property name="multivalue" value="true"/>
    <property name="converter" ref="serviceTypesConverter"/>
</bean>
```

### 23.3.31 isotc.serviceEndpoint

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.serviceEndpoint" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="serviceEndpoint"/>
    <constructor-arg name="xpath" value="//srv:SV_ServiceIdentification/
↳srv:containsOperations/srv:SV_OperationMetadata/srv:connectPoint/gmd:CI_
↳OnlineResource/gmd:linkage/gmd:URL/text ()"/>
    <property name="multivalue" value="true"/>
</bean>

```

### 23.3.32 isotc.serviceInput

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.serviceInput" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="serviceInput"/>
    <constructor-arg name="xpath" value="//srv:SV_ServiceIdentification/
↳srv:operatesOn/@xlink:href"/>
    <property name="multivalue" value="true"/>
</bean>

```

### 23.3.33 isotc.serviceOutput

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.serviceOutput" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="serviceOutput"/>
    <constructor-arg name="xpath" value="//srv:SV_ServiceIdentification/
↳gmd:resourceFormat/@xlink:href"/>
    <property name="multivalue" value="true"/>
</bean>

```

### 23.3.34 isotc.distribServiceType

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.distribServiceType" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="serviceType"/>
    <constructor-arg name="xpath" value="//gmd:distributionInfo/gmd:MD_
↳Distribution/gmd:distributor/gmd:MD_Distributor/gmd:distributorTransferOptions/
↳gmd:MD_DigitalTransferOptions/gmd:onLine/gmd:CI_OnlineResource/gmd:protocol/
↳gco:CharacterString/text ()"/>
    <property name="multivalue" value="true"/>
    <property name="converter" ref="serviceTypesConverter"/>
</bean>

```

### 23.3.35 isotc.distribServiceEndpoint

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.distribServiceEndpoint" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="serviceEndpoint" />
    <constructor-arg name="xpath" value="//gmd:distributionInfo/gmd:MD_
↳Distribution/gmd:distributor/gmd:MD_Distributor/gmd:distributorTransferOptions/
↳gmd:MD_DigitalTransferOptions/gmd:onLine/gmd:CI_OnlineResource/gmd:linkage/gmd:URL/
↳text() | //gmd:distributionInfo/gmd:MD_Distribution/gmd:transferOptions/gmd:MD_
↳DigitalTransferOptions/gmd:onLine/gmd:CI_OnlineResource/gmd:linkage/gmd:URL/text()"/
↳>
    <property name="multivalue" value="true" />
</bean>

```

### 23.3.36 isotc.distribServiceInput

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.distribServiceInput" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="serviceInput" />
    <constructor-arg name="xpath" value="//gmd:distributionInfo/gmd:MD_
↳Distribution/gmd:distributor/gmd:MD_Distributor/gmd:distributorTransferOptions/
↳@xlink:href"/>
    <property name="multivalue" value="true" />
</bean>

```

### 23.3.37 isotc.distribServiceOutput

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.distribServiceOutput" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="serviceOutput" />
    <constructor-arg name="xpath" value="//gmd:distributionInfo/gmd:MD_
↳Distribution/gmd:distributor/gmd:MD_Distributor/gmd:distributorFormat/gmd:MD_Format/
↳gmd:version/gco:CharacterString/text()"/>
    <property name="multivalue" value="true" />
</bean>

```

### 23.3.38 isotc.fileID

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.fileID" class="org.dataone.cn.indexer.parser.ResolveSolrField">
    <constructor-arg name="name" value="fileID" />
</bean>

```

### 23.3.39 isotc.fullText



```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="isotc.fullText" class="org.dataone.cn.indexer.parser.FullTextSolrField">
    <constructor-arg name="name" value="text"/>
    <constructor-arg name="xpath" value="//*/text()"/>
    <property name="combineNodes" value="true"/>
</bean>
```



---

Mercury metadata

---

Describes parser configuration for: ornlMercury10Subprocessor

## 24.1 Format IDs Processed

This parser processes the following DataONE format IDs:

- Oak Ridge National Lab Mercury Metadata version 1.0  
formatId: <http://purl.org/ornl/schema/mercury/terms/v1.0>

A full list of DataONE format IDs can be found at <https://cn.dataone.org/cn/v2/formats/>

## 24.2 Fields

The following fields in the solr index are populated from values retrieved from this type of metadata document. Note that these are in addition to the information extracted from *System Metadata Parser*.

Solr Field	Multi	Dedupe	Source
<i>Index.abstract</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/descript/ ↳abstract/ descendant::text ()</pre> <p>Processor: MergeSolrField Configuration: <i>fgdc.abstract</i></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.beginDate</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/timeperd/ ↪timeinfo/ rngdates/begdate/text ()</pre> <p>Processor: SolrField  Configuration: <i>fgdc.beginDate</i>  Converter: FgdcDateConverter</p>
<i>Index.contactOrganization</i>	True	True	<pre>/*[local-name() = 'metadata']/distinfo/distrib/ ↪cntinfo/ cntperp/cntorg/text ()   /*[local-name() = 'metadata']/distinfo/distrib/cntinfo/cntorgp/ ↪cntorg/ text ()</pre> <p>Processor: SolrField  Configuration: <i>fgdc.contactOrganization</i></p>
<i>Index.eastBoundCoord</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/spdom/ ↪bounding/eastbc/ text ()</pre> <p>Processor: SolrField  Configuration: <i>fgdc.eastBoundCoord</i>  Converter: SolrLongitudeConverter</p>
<i>Index.westBoundCoord</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/spdom/ ↪bounding/westbc/ text ()</pre> <p>Processor: SolrField  Configuration: <i>fgdc.westBoundCoord</i>  Converter: SolrLongitudeConverter</p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.northBoundCoord</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/spdom/ ↳bounding/northbc/ text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.northBoundCoord</i> Converter: SolrLongitudeConverter</p>
<i>Index.southBoundCoord</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/spdom/ ↳bounding/southbc/ text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.southBoundCoord</i> Converter: SolrLongitudeConverter</p>
<i>Index.edition</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/citeinfo/ ↳edition/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.edition</i></p>
<i>Index.endDate</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/timeperd/ ↳timeinfo/ rngdates/enddate/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.endDate</i> Converter: FgdcDateConverter</p>
<i>Index.gcmdKeyword</i>	True	False	<pre>/*[local-name() = 'metadata']/idinfo/keywords/ ↳theme[themekt= 'GCMD Science Keywords']/themekey/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.gcmdKeyword</i></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.keywords</i>	True	True	<pre>/*[local-name() = 'metadata']/idinfo/keywords/ ↳theme/ themekey/text()   /*[local-name() = 'metadata']/ idinfo/keywords/place/placekey/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.keywords</i></p>
<i>Index.geoform</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/citation/ ↳citeinfo/ geoform/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.geoform</i></p>
<i>Index.genus</i>	True	False	<pre>//taxoncl/taxonrv[../taxonrn="Genus"]/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.genus</i></p>
<i>Index.kingdom</i>	True	False	<pre>//taxoncl/taxonrv[../taxonrn="Kingdom"]/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.kingdom</i></p>
<i>Index.order</i>	True	False	<pre>//taxoncl/taxonrv[../taxonrn="Order"]/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.order</i></p>
<i>Index.phylum</i>	True	False	<pre>//taxoncl/taxonrv[../taxonrn="Phylum"]/text()  ↳ ↳//taxoncl/ taxonrv[../taxonrn="Division"]/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.phylum</i></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.species</i>	True	False	<pre>//taxoncl/taxonrv[../taxonrn="Species"]/text ()</pre> <p>Processor: SolrField Configuration: <i>fgdc.species</i></p>
<i>Index.family</i>	True	False	<pre>//taxoncl/taxonrv[../taxonrn="Family"]/text ()</pre> <p>Processor: SolrField Configuration: <i>fgdc.family</i></p>
<i>Index.class</i>	True	False	<pre>//taxoncl/taxonrv[../taxonrn="Class"]/text ()</pre> <p>Processor: SolrField Configuration: <i>fgdc.class</i></p>
<i>Index.scientificName</i>	False		<pre>//taxoncl/taxonrv[../taxonrn="Genus"] -&gt;{   ↳{[genus] [species] }}; genus = ../taxonrv/text (); species = _ ↳taxonrv/ text ()</pre> <p>Processor: CommonRootSolrField Configuration: <i>fgdc.scientificName</i> Notes: This bean uses a template populated from additional sources. See configuration for more details.</p>
<i>Index.origin</i>	True	False	<pre>/*[local-name() = 'metadata']/idinfo/citation/ ↳citeinfo/ origin/text ()</pre> <p>Processor: SolrField Configuration: <i>fgdc.origin</i></p>
<i>Index.placeKey</i>	True	False	<pre>/*[local-name() = 'metadata']/idinfo/keywords/ ↳place/ placekey/text ()</pre> <p>Processor: SolrField Configuration: <i>fgdc.placeKey</i></p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.pubDate</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/citation/ ↪citeinfo/ pubdate/text()</pre> <p>Processor: SolrField            Configuration: <i>fgdc.pubDate</i>            Converter: FgdcDateConverter</p>
<i>Index.purpose</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/descript/ ↪purpose/ descendant::text()</pre> <p>Processor: MergeSolrField            Configuration: <i>fgdc.purpose</i></p>
<i>Index.title</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/citation/ ↪citeinfo/ title/text()</pre> <p>Processor: SolrField            Configuration: <i>fgdc.title</i></p>
<i>Index.webUrl</i>	True	False	<pre>/*[local-name() = 'metadata']/idinfo/citation/ ↪citeinfo/ onlink/text()</pre> <p>Processor: SolrField            Configuration: <i>fgdc.web_url</i></p>
<i>Index.fileID</i>			<p>Processor: ResolveSolrField            Configuration: <i>fgdc.fileID</i>            Notes: SolrField which configures the resolve url for the document being processed.            Converter:</p>
<i>Index.text</i>			<p>Processor: AggregateSolrField            Configuration: <i>fgdc.fullText</i>            Converter:</p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.presentationCat</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/citation/ ↪citeinfo/ geoform/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.presentationCat</i></p>
<i>Index.author</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/citation/ ↪citeinfo/ origin/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.author</i></p>
<i>Index.authorSurName</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/citation/ ↪citeinfo/ origin[1]/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.authorSurName</i></p>
<i>Index.authorSurNameSort</i>	False	False	<pre>/*[local-name() = 'metadata']/idinfo/citation/ ↪citeinfo/ origin[1]/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.authorSurNameSort</i></p>
<i>Index.investigator</i>	True	False	<pre>/*[local-name() = 'metadata']/idinfo/citation/ ↪citeinfo/ origin/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.investigator</i></p>
<i>Index.site</i>	True	False	<pre>/*[local-name() = 'metadata']/idinfo/spdom/ ↪descgeog/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.site</i></p>

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Table 1 – continued from previous page

Solr Field	Multi	Duplicate Source	Source
<i>Index.attributeName</i>	True	False	<pre>//attr/attrlabl/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.attributeName</i></p>
<i>Index.attributeLabel</i>	True	False	<pre>//attr/attalias/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.attributeLabel</i></p>
<i>Index.attributeDescription</i>	True	False	<pre>//attr/attrdef/text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.attributeDescription</i></p>
<i>Index.attributeUnit</i>	True	False	<pre>//attr/attrdomv//attrunit/text()   //attr// ↪attrdomv//edomv/ text()</pre> <p>Processor: SolrField Configuration: <i>fgdc.attributeUnit</i></p>
<i>Index.attribute</i>	False		<pre>//attr -&gt;{{[attributeName] [attributeLabel] [ attributeDescription] [attributeUnit]}}; attributeName = attrlabl/text(); attributeLabel_ ↪= attalias/text(); attributeDescription = attrdef/ text(); attributeUnit = attrdomv//attrunit/ ↪text()   .//attrdomv//edomv/text()</pre> <p>Processor: CommonRootSolrField Configuration: <i>fgdc.attributeText</i> Notes: This bean uses a template populated from additional sources. See configuration for more details.</p>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_1</i>	False		<pre> /*[local-name() = 'metadata']/idinfo/spdom/ ↪bounding -&gt;{[ northBoundingCoordinate]_ ↪[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↪[westBoundingCoordinate]}}; northBoundingCoordinate = northbc/text(); southBoundingCoordinate = southbc/text(); eastBoundingCoordinate = eastbc/text(); westBoundingCoordinate = westbc/text()  Processor: <a href="#">CommonRootSolrField</a> Configuration: <i>fgdc.geohash1</i> Notes: This bean uses a template populated from additional sources. See configuration for more details. Converter: <a href="#">GeohashConverter</a> </pre>
<i>Index.geohash_2</i>	False		<pre> /*[local-name() = 'metadata']/idinfo/spdom/ ↪bounding -&gt;{[ northBoundingCoordinate]_ ↪[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↪[westBoundingCoordinate]}}; northBoundingCoordinate = northbc/text(); southBoundingCoordinate = southbc/text(); eastBoundingCoordinate = eastbc/text(); westBoundingCoordinate = westbc/text()  Processor: <a href="#">CommonRootSolrField</a> Configuration: <i>fgdc.geohash2</i> Notes: This bean uses a template populated from additional sources. See configuration for more details. Converter: <a href="#">GeohashConverter</a> </pre>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_3</i>	False		<pre> /*[local-name() = 'metadata']/idinfo/spdom/ ↪bounding -&gt;{[ northBoundingCoordinate] ↪[southBoundingCoordinate] [ eastBoundingCoordinate] ↪[westBoundingCoordinate]}}; northBoundingCoordinate = northbc/text(); southBoundingCoordinate = southbc/text(); eastBoundingCoordinate = eastbc/text(); westBoundingCoordinate = westbc/text()  Processor: CommonRootSolrField Configuration: fgdc.geohash3 Notes: This bean uses a template populated from additional sources. See configuration for more details. Converter: GeohashConverter </pre>
<i>Index.geohash_4</i>	False		<pre> /*[local-name() = 'metadata']/idinfo/spdom/ ↪bounding -&gt;{[ northBoundingCoordinate] ↪[southBoundingCoordinate] [ eastBoundingCoordinate] ↪[westBoundingCoordinate]}}; northBoundingCoordinate = northbc/text(); southBoundingCoordinate = southbc/text(); eastBoundingCoordinate = eastbc/text(); westBoundingCoordinate = westbc/text()  Processor: CommonRootSolrField Configuration: fgdc.geohash4 Notes: This bean uses a template populated from additional sources. See configuration for more details. Converter: GeohashConverter </pre>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_5</i>	False		<pre> /*[local-name() = 'metadata']/idinfo/spdom/ ↪bounding -&gt;{[ northBoundingCoordinate]_ ↪[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↪[westBoundingCoordinate]}}; northBoundingCoordinate = northbc/text(); southBoundingCoordinate = southbc/text(); eastBoundingCoordinate = eastbc/text(); westBoundingCoordinate = westbc/text()  Processor: <a href="#">CommonRootSolrField</a> Configuration: <i>fgdc.geohash5</i> Notes: This bean uses a template populated from additional sources. See configuration for more details. Converter: <a href="#">GeohashConverter</a> </pre>
<i>Index.geohash_6</i>	False		<pre> /*[local-name() = 'metadata']/idinfo/spdom/ ↪bounding -&gt;{[ northBoundingCoordinate]_ ↪[southBoundingCoordinate] [ eastBoundingCoordinate]_ ↪[westBoundingCoordinate]}}; northBoundingCoordinate = northbc/text(); southBoundingCoordinate = southbc/text(); eastBoundingCoordinate = eastbc/text(); westBoundingCoordinate = westbc/text()  Processor: <a href="#">CommonRootSolrField</a> Configuration: <i>fgdc.geohash6</i> Notes: This bean uses a template populated from additional sources. See configuration for more details. Converter: <a href="#">GeohashConverter</a> </pre>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_7</i>	False		<pre> /*[local-name() = 'metadata']/idinfo/spdom/ ↪bounding -&gt;{[ northBoundingCoordinate] ↪[southBoundingCoordinate] [ eastBoundingCoordinate] ↪[westBoundingCoordinate]}}; northBoundingCoordinate = northbc/text(); southBoundingCoordinate = southbc/text(); eastBoundingCoordinate = eastbc/text(); westBoundingCoordinate = westbc/text()  Processor: CommonRootSolrField Configuration: fgdc.geohash7 Notes: This bean uses a template populated from additional sources. See configuration for more details. Converter: GeohashConverter </pre>
<i>Index.geohash_8</i>	False		<pre> /*[local-name() = 'metadata']/idinfo/spdom/ ↪bounding -&gt;{[ northBoundingCoordinate] ↪[southBoundingCoordinate] [ eastBoundingCoordinate] ↪[westBoundingCoordinate]}}; northBoundingCoordinate = northbc/text(); southBoundingCoordinate = southbc/text(); eastBoundingCoordinate = eastbc/text(); westBoundingCoordinate = westbc/text()  Processor: CommonRootSolrField Configuration: fgdc.geohash8 Notes: This bean uses a template populated from additional sources. See configuration for more details. Converter: GeohashConverter </pre>

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Table 1 – continued from previous page

Solr Field	Multi	Dedupe	Source
<i>Index.geohash_9</i>	False		<pre> /*[local-name() = 'metadata']/idinfo/spdom/ ↳bounding -&gt;{[[ northBoundingCoordinate]↳ ↳[southBoundingCoordinate] [ eastBoundingCoordinate]↳ ↳[westBoundingCoordinate]}}; northBoundingCoordinate = northbc/text(); southBoundingCoordinate = southbc/text(); eastBoundingCoordinate = eastbc/text(); westBoundingCoordinate = westbc/text()  Processor: CommonRootSolrField Configuration: fgdc.geohash9 Notes: This bean uses a template populated from additional sources. See configuration for more details. Converter: GeohashConverter </pre>

## 24.3 Bean Configurations

### 24.3.1 fgdc.abstract

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"↳
↳id="fgdc.abstract" class="org.dataone.cn.indexer.parser.MergeSolrField">
  <constructor-arg name="name" value="abstract"/>
  <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/idinfo/
↳descript/abstract/descendant::text()"/>
  <constructor-arg name="delimiter" value=" "/>
  <property name="multivalue" value="false"/>
  <property name="dedupe" value="false"/>
</bean>

```

### 24.3.2 fgdc.beginDate

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"↳
↳id="fgdc.beginDate" class="org.dataone.cn.indexer.parser.SolrField">
  <constructor-arg name="name" value="beginDate"/>
  <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/timeperd/timeinfo/rngdates/begdate/text()"/>
  <property name="multivalue" value="false"/>
  <property name="converter" ref="fgdcDateConverter"/>
</bean>

```

### 24.3.3 fgdc.contactOrganization

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.contactOrganization" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="contactOrganization"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳distinfo/distrib/cntinfo/cntperp/cntorg/text() | /*[local-name() = 'metadata']/
↳distinfo/distrib/cntinfo/cntorgp/cntorg/text()"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>
```

### 24.3.4 fgdc.eastBoundCoord

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.eastBoundCoord" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="eastBoundCoord"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/spdom/bounding/eastbc/text()"/>
    <property name="multivalue" value="false"/>
    <property name="converter" ref="solrLongitudeConverter"/>
</bean>
```

### 24.3.5 fgdc.westBoundCoord

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.westBoundCoord" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="westBoundCoord"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/spdom/bounding/westbc/text()"/>
    <property name="multivalue" value="false"/>
    <property name="converter" ref="solrLongitudeConverter"/>
</bean>
```

### 24.3.6 fgdc.northBoundCoord

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.northBoundCoord" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="northBoundCoord"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/spdom/bounding/northbc/text()"/>
    <property name="multivalue" value="false"/>
    <property name="converter" ref="solrLongitudeConverter"/>
</bean>
```



### 24.3.7 fgdc.southBoundCoord

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.southBoundCoord" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="southBoundCoord"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/spdom/bounding/southbc/text()"/>
    <property name="multivalue" value="false"/>
    <property name="converter" ref="solrLongitudeConverter"/>
</bean>
```

### 24.3.8 fgdc.edition

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.edition" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="edition"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/citeinfo/edition/text()"/>
    <property name="multivalue" value="false"/>
</bean>
```

### 24.3.9 fgdc.endDate

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.endDate" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="endDate"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/timeperd/timeinfo/rngdates/enddate/text()"/>
    <property name="multivalue" value="false"/>
    <property name="converter" ref="fgdcDateConverter"/>
</bean>
```

### 24.3.10 fgdc.gcmdKeyword

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.gcmdKeyword" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="gcmdKeyword"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/keywords/theme[themekt='GCMD Science Keywords']/themekey/text()"/>
    <property name="multivalue" value="true"/>
</bean>
```

### 24.3.11 fgdc.keywords

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.keywords" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="keywords"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/keywords/theme/themekey/text() | /*[local-name() = 'metadata']/idinfo/
↳keywords/place/placekey/text() "/>
    <property name="multivalued" value="true"/>
    <property name="dedupe" value="true"/>
    <property name="disallowedValues">
        <list>
            <value>none</value>
        </list>
    </property>
</bean>

```

### 24.3.12 fgdc.geoform

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.geoform" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="geoform"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/citation/citeinfo/geoform/text() "/>
    <property name="multivalued" value="false"/>
</bean>

```

### 24.3.13 fgdc.genus

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.genus" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="genus"/>
    <constructor-arg name="xpath" value="//taxoncl/taxonrv[../taxonrn=&quot;
↳Genus&quot;]/text() "/>
    <property name="multivalued" value="true"/>
</bean>

```

### 24.3.14 fgdc.kingdom

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.kingdom" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="kingdom"/>
    <constructor-arg name="xpath" value="//taxoncl/taxonrv[../taxonrn=&quot;
↳Kingdom&quot;]/text() "/>
    <property name="multivalued" value="true"/>
</bean>

```

### 24.3.15 fgdc.order

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.order" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="order"/>
    <constructor-arg name="xpath" value="//taxoncl/taxonrv[../taxonrn=&quot;
↳Order&quot;]/text()"/>
    <property name="multivalue" value="true"/>
</bean>
```

### 24.3.16 fgdc.phylum

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.phylum" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="phylum"/>
    <constructor-arg name="xpath" value="//taxoncl/taxonrv[../taxonrn=&quot;
↳Phylum&quot;] | //taxoncl/taxonrv[../taxonrn=&quot;Division&quot;]/text()"/>
    <property name="multivalue" value="true"/>
</bean>
```

### 24.3.17 fgdc.species

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.species" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="species"/>
    <constructor-arg name="xpath" value="//taxoncl/taxonrv[../taxonrn=&quot;
↳Species&quot;]/text()"/>
    <property name="multivalue" value="true"/>
</bean>
```

### 24.3.18 fgdc.family

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.family" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="family"/>
    <constructor-arg name="xpath" value="//taxoncl/taxonrv[../taxonrn=&quot;
↳Family&quot;]/text()"/>
    <property name="multivalue" value="true"/>
</bean>
```

### 24.3.19 fgdc.class

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.class" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="class"/>
    <constructor-arg name="xpath" value="//taxoncl/taxonrv[../taxonrn=&quot;
↳Class&quot;]/text()"/>
    <property name="multivalue" value="true"/>
</bean>

```

### 24.3.20 fgdc.scientificName

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.scientificName" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="true" p:root-ref="fgdc.scientificNameRoot">
    <constructor-arg name="name" value="scientificName"/>
</bean>

```

### 24.3.21 fgdc.origin

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.origin" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="origin"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/citation/citeinfo/origin/text()"/>
    <property name="multivalue" value="true"/>
</bean>

```

### 24.3.22 fgdc.placeKey

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.placeKey" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="placeKey"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/keywords/place/placekey/text()"/>
    <property name="multivalue" value="true"/>
</bean>

```

### 24.3.23 fgdc.pubDate

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.pubDate" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="pubDate"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/citation/citeinfo/pubdate/text()"/>
    <property name="multivalue" value="false"/>

```

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```

    <property name="converter" ref="fgdcDateConverter"/>
</bean>

```

### 24.3.24 fgdc.purpose

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.purpose" class="org.dataone.cn.indexer.parser.MergeSolrField">
    <constructor-arg name="name" value="purpose"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/idinfo/
↳descript/purpose/descendant::text()"/>
    <constructor-arg name="delimiter" value=" "/>
    <property name="multivalue" value="false"/>
    <property name="dedupe" value="false"/>
</bean>

```

### 24.3.25 fgdc.title

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.title" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="title"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/citation/citeinfo/title/text()"/>
    <property name="multivalue" value="false"/>
</bean>

```

### 24.3.26 fgdc.web\_url

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.web_url" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="webUrl"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/citation/citeinfo/onlink/text()"/>
    <property name="multivalue" value="true"/>
</bean>

```

### 24.3.27 fgdc.fileID

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.fileID" class="org.dataone.cn.indexer.parser.ResolveSolrField">
    <constructor-arg name="name" value="fileID"/>
</bean>

```

### 24.3.28 fgdc.fullText

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.fullText" class="org.dataone.cn.indexer.parser.AggregateSolrField">
    <property name="name" value="text" />
    <property name="solrFields">
        <list>
            <ref bean="fgdc.text" />
        </list>
    </property>
</bean>
```

### 24.3.29 fgdc.presentationCat

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.presentationCat" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="presentationCat" />
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/citation/citeinfo/geoform/text()"/>
    <property name="multivalue" value="false" />
</bean>
```

### 24.3.30 fgdc.author

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.author" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="author" />
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/citation/citeinfo/origin/text()"/>
    <property name="multivalue" value="false" />
</bean>
```

### 24.3.31 fgdc.authorSurName

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.authorSurName" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="authorSurName" />
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/citation/citeinfo/origin[1]/text()"/>
    <property name="multivalue" value="false" />
</bean>
```

### 24.3.32 fgdc.authorSurNameSort

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.authorSurNameSort" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="authorSurNameSort"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/citation/citeinfo/origin[1]/text()"/>
    <property name="multivalue" value="false"/>
</bean>

```

### 24.3.33 fgdc.investigator

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.investigator" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="investigator"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/citation/citeinfo/origin/text()"/>
    <property name="multivalue" value="true"/>
</bean>

```

### 24.3.34 fgdc.site

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.site" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="site"/>
    <constructor-arg name="xpath" value="/*[local-name() = 'metadata']/
↳idinfo/spdom/descgeog/text()"/>
    <property name="multivalue" value="true"/>
</bean>

```

### 24.3.35 fgdc.attributeName

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.attributeName" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="attributeName"/>
    <constructor-arg name="xpath" value="//attr/attrlabl/text()"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="false"/>
</bean>

```

### 24.3.36 fgdc.attributeLabel

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.attributeLabel" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="attributeLabel"/>
    <constructor-arg name="xpath" value="//attr/attalias/text()"/>

```

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```

    <property name="multivalue" value="true"/>
    <property name="dedupe" value="false"/>
</bean>

```

### 24.3.37 fgdc.attributeDescription

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.attributeDescription" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="attributeDescription"/>
    <constructor-arg name="xpath" value="//attr/attrdef/text()"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="false"/>
</bean>

```

### 24.3.38 fgdc.attributeUnit

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.attributeUnit" class="org.dataone.cn.indexer.parser.SolrField">
    <constructor-arg name="name" value="attributeUnit"/>
    <constructor-arg name="xpath" value="//attr/attrdomv//attrunit/text() | /
↳/attr//attrdomv//edomv/text()"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="false"/>
</bean>

```

### 24.3.39 fgdc.attributeText

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.attributeText" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="true" p:root-ref="fgdc.attributeTextRoot">
    <constructor-arg name="name" value="attribute"/>
</bean>

```

### 24.3.40 fgdc.geohash1

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.geohash1" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="false" p:root-ref="fgdc.geohashRoot">
    <constructor-arg name="name" value="geohash_1"/>
    <property name="converter" ref="geohashConverter_1"/>
</bean>

```



### 24.3.41 fgdc.geohash2

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.geohash2" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="false" p:root-ref="fgdc.geohashRoot">
    <constructor-arg name="name" value="geohash_2"/>
    <property name="converter" ref="geohashConverter_2"/>
</bean>
```

### 24.3.42 fgdc.geohash3

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.geohash3" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="false" p:root-ref="fgdc.geohashRoot">
    <constructor-arg name="name" value="geohash_3"/>
    <property name="converter" ref="geohashConverter_3"/>
</bean>
```

### 24.3.43 fgdc.geohash4

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.geohash4" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="false" p:root-ref="fgdc.geohashRoot">
    <constructor-arg name="name" value="geohash_4"/>
    <property name="converter" ref="geohashConverter_4"/>
</bean>
```

### 24.3.44 fgdc.geohash5

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.geohash5" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="false" p:root-ref="fgdc.geohashRoot">
    <constructor-arg name="name" value="geohash_5"/>
    <property name="converter" ref="geohashConverter_5"/>
</bean>
```

### 24.3.45 fgdc.geohash6

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.geohash6" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multiple="false" p:root-ref="fgdc.geohashRoot">
    <constructor-arg name="name" value="geohash_6"/>
    <property name="converter" ref="geohashConverter_6"/>
</bean>
```

### 24.3.46 fgdc.geohash7

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.geohash7" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="false" p:root-ref="fgdc.geohashRoot">
    <constructor-arg name="name" value="geohash_7"/>
    <property name="converter" ref="geohashConverter_7"/>
</bean>
```

### 24.3.47 fgdc.geohash8

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.geohash8" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="false" p:root-ref="fgdc.geohashRoot">
    <constructor-arg name="name" value="geohash_8"/>
    <property name="converter" ref="geohashConverter_8"/>
</bean>
```

### 24.3.48 fgdc.geohash9

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:p="http://www.
↳springframework.org/schema/p" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
↳id="fgdc.geohash9" class="org.dataone.cn.indexer.parser.CommonRootSolrField"
↳p:multivalue="false" p:root-ref="fgdc.geohashRoot">
    <constructor-arg name="name" value="geohash_9"/>
    <property name="converter" ref="geohashConverter_9"/>
</bean>
```

Describes parser configuration for: prov20150115RdfXmlSubprocessor

### 25.1 Format IDs Processed

This parser processes the following DataONE format IDs:

- RDF/XML  
formatId: <http://www.w3.org/TR/rdf-syntax-grammar>
- Object Reuse and Exchange Vocabulary  
formatId: <http://www.openarchives.org/ore/terms>

A full list of DataONE format IDs can be found at <https://cn.dataone.org/cn/v2/formats/>

### 25.2 Fields

The following fields in the solr index are populated from values retrieved from this type of metadata document. Note that these are in addition to the information extracted from *System Metadata Parser*.

Solr Field	Multi	Dedupe	Source
<i>Index. prov_wasDerivedFrom</i>	False	False	<pre>SELECT (str(?pidValue) as ?pid) (str(? ↪wasDerivedFromValue) as ?prov_wasDerivedFrom) FROM &lt;\$GRAPH_NAME&gt; WHERE {      ?derived_data      prov:wasDerivedFrom ? ↪primary_data .     ?derived_data      dcterms:identifier ? ↪pidValue .     ?primary_data      dcterms:identifier ? ↪wasDerivedFromValue .  }</pre> <p>Processor: <a href="#">SparqlField</a>  Configuration: <i>prov20150115.wasDerivedFrom</i></p>
<i>Index. prov_wasInformedBy</i>	False	False	<pre>SELECT (str(?pidValue) as ?pid) (str(? ↪wasInformedByValue) as ?prov_wasInformedBy) FROM &lt;\$GRAPH_NAME&gt; WHERE {      ?activity           prov:wasInformedBy ↪ ↪?previousActivity .     ?activity           dcterms:identifier ↪ ↪?pidValue .     ?previousActivity   dcterms:identifier ↪ ↪?wasInformedByValue .  }</pre> <p>Processor: <a href="#">SparqlField</a>  Configuration: <i>prov20150115.wasInformedBy</i></p>
<i>Index.prov_used</i>	False	False	<pre>SELECT (str(?pidValue) as ?pid) (str(? ↪usedValue) as ?prov_used) FROM &lt;\$GRAPH_NAME&gt; WHERE {      ?activity           prov:used          ? ↪data .     ?activity           prov:qualifiedAssociation ? ↪association .     ?association        prov:hadPlan        ? ↪program .     ?program            dcterms:identifier  ? ↪pidValue .     ?data               dcterms:identifier  ? ↪usedValue .  }</pre> <p>Processor: <a href="#">SparqlField</a></p>
<b>408</b>			<p>Configuration: <i>prov20150115.used</i> <b>Chapter 25. Provenance</b></p>
<i>Index.prov_generated</i>	False	False	<pre>SELECT (str(?pidValue) as ?pid) (str(?</pre>

## 25.3 Bean Configurations

### 25.3.1 prov20150115.wasDerivedFrom

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="prov20150115.wasDerivedFrom" class="org.dataone.cn.
↳indexer.annotation.SparqlField">
  <constructor-arg name="name" value="prov_wasDerivedFrom"/>
  <constructor-arg name="query">
    <value>
      <![CDATA[
        PREFIX rdf:      <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
        PREFIX rdfs:     <http://www.w3.org/2000/01/rdf-schema#>
        PREFIX owl:    <http://www.w3.org/2002/07/owl#>
        PREFIX prov:     <http://www.w3.org/ns/prov#>
        PREFIX provone:  <http://purl.dataone.org/provone/2015/01/15/ontology#>
        PREFIX ore:      <http://www.openarchives.org/ore/terms/>
        PREFIX dcterms:  <http://purl.org/dc/terms/>

        SELECT (str(?pidValue) as ?pid) (str(?wasDerivedFromValue) as ?prov_
↳wasDerivedFrom)
          FROM <$GRAPH_NAME>
          WHERE {

              ?derived_data      prov:wasDerivedFrom ?primary_data .
              ?derived_data      dcterms:identifier ?pidValue .
              ?primary_data      dcterms:identifier ?wasDerivedFromValue .

            }
          ]]>
    </value>
  </constructor-arg>
</bean>

```

### 25.3.2 prov20150115.wasInformedBy

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="prov20150115.wasInformedBy" class="org.dataone.cn.
↳indexer.annotation.SparqlField">
  <constructor-arg name="name" value="prov_wasInformedBy"/>
  <constructor-arg name="query">
    <value>
      <![CDATA[
        PREFIX rdf:      <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
        PREFIX rdfs:     <http://www.w3.org/2000/01/rdf-schema#>
        PREFIX owl:    <http://www.w3.org/2002/07/owl#>
        PREFIX prov:     <http://www.w3.org/ns/prov#>
        PREFIX provone:  <http://purl.dataone.org/provone/2015/01/15/ontology#>
        PREFIX ore:      <http://www.openarchives.org/ore/terms/>
        PREFIX dcterms:  <http://purl.org/dc/terms/>

        SELECT (str(?pidValue) as ?pid) (str(?wasInformedByValue) as ?prov_
↳wasInformedBy)
          FROM <$GRAPH_NAME>

```

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```

        WHERE {

            ?activity          prov:wasInformedBy  ?previousActivity .
            ?activity          dcterms:identifier  ?pidValue .
            ?previousActivity  dcterms:identifier  ?wasInformedByValue .

        }
    ]]>
</value>
</constructor-arg>
</bean>

```

### 25.3.3 prov20150115.used

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="prov20150115.used" class="org.dataone.cn.indexer.
↳annotation.SparqlField">
    <constructor-arg name="name" value="prov_used"/>
    <constructor-arg name="query">
        <value>
            <![CDATA[
                PREFIX rdf:      <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
                PREFIX rdfs:     <http://www.w3.org/2000/01/rdf-schema#>
                PREFIX owl:    <http://www.w3.org/2002/07/owl#>
                PREFIX prov:     <http://www.w3.org/ns/prov#>
                PREFIX provone:  <http://purl.dataone.org/provone/2015/01/15/ontology#>
                PREFIX ore:      <http://www.openarchives.org/ore/terms/>
                PREFIX dcterms:  <http://purl.org/dc/terms/>

                SELECT (str(?pidValue) as ?pid) (str(?usedValue) as ?prov_used)
                FROM <${GRAPH_NAME}>
                WHERE {

                    ?activity      prov:used          ?data .
                    ?activity      prov:qualifiedAssociation ?association .
                    ?association    prov:hadPlan       ?program .
                    ?program        dcterms:identifier  ?pidValue .
                    ?data           dcterms:identifier  ?usedValue .

                }
            ]]>
        </value>
    </constructor-arg>
</bean>

```

### 25.3.4 prov20150115.generated

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="prov20150115.generated" class="org.dataone.cn.
↳indexer.annotation.SparqlField">
    <constructor-arg name="name" value="prov_generated"/>
    <constructor-arg name="query">

```

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```

<value>
  <![CDATA[
    PREFIX rdf:      <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
    PREFIX rdfs:     <http://www.w3.org/2000/01/rdf-schema#>
    PREFIX owl:    <http://www.w3.org/2002/07/owl#>
    PREFIX prov:     <http://www.w3.org/ns/prov#>
    PREFIX provone: <http://purl.dataone.org/provone/2015/01/15/ontology#>
    PREFIX ore:      <http://www.openarchives.org/ore/terms/>
    PREFIX dcterms: <http://purl.org/dc/terms/>

    SELECT (str(?pidValue) as ?pid) (str(?generatedValue) as ?prov_generated)
    FROM <$GRAPH_NAME>
    WHERE {

        ?result      prov:wasGeneratedBy      ?activity .
        ?activity    prov:qualifiedAssociation ?association .
        ?association prov:hadPlan             ?program .
        ?result      dcterms:identifier       ?generatedValue .
        ?program     dcterms:identifier       ?pidValue .

    }
  ]]>
</value>
</constructor-arg>
</bean>

```

### 25.3.5 prov20150115.generatedByProgram

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
→org/2001/XMLSchema-instance" id="prov20150115.generatedByProgram" class="org.
→dataone.cn.indexer.annotation.SparqlField">
  <constructor-arg name="name" value="prov_generatedByProgram"/>
  <constructor-arg name="query">
    <value>
      <![CDATA[
        PREFIX rdf:      <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
        PREFIX rdfs:     <http://www.w3.org/2000/01/rdf-schema#>
        PREFIX owl:    <http://www.w3.org/2002/07/owl#>
        PREFIX prov:     <http://www.w3.org/ns/prov#>
        PREFIX provone: <http://purl.dataone.org/provone/2015/01/15/ontology#>
        PREFIX ore:      <http://www.openarchives.org/ore/terms/>
        PREFIX dcterms: <http://purl.org/dc/terms/>

        SELECT (str(?pidValue) as ?pid) (str(?programPidValue) as ?prov_
→generatedByProgram)
        FROM <$GRAPH_NAME>
        WHERE {

            ?derived_data prov:wasGeneratedBy ?execution .
            ?execution    prov:qualifiedAssociation ?association .
            ?association  prov:hadPlan ?program .
            ?program     dcterms:identifier ?programPidValue .
            ?derived_data dcterms:identifier ?pidValue .

        }
      ]]>
    </value>
  </constructor-arg>
</bean>

```

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```

    </value>
  </constructor-arg>
</bean>

```

### 25.3.6 prov20150115.generatedByExecution

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="prov20150115.generatedByExecution" class="org.
↳dataone.cn.indexer.annotation.SparqlField">
  <constructor-arg name="name" value="prov_generatedByExecution"/>
  <constructor-arg name="query">
    <value>
      <![CDATA[
        PREFIX rdf:      <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
        PREFIX rdfs:     <http://www.w3.org/2000/01/rdf-schema#>
        PREFIX owl:    <http://www.w3.org/2002/07/owl#>
        PREFIX prov:     <http://www.w3.org/ns/prov#>
        PREFIX provone:  <http://purl.dataone.org/provone/2015/01/15/ontology#>
        PREFIX ore:      <http://www.openarchives.org/ore/terms/>
        PREFIX dcterms:  <http://purl.org/dc/terms/>

        SELECT (str(?pidValue) as ?pid) (str(?executionPidValue) as ?prov_
↳generatedByExecution)
          FROM <${GRAPH_NAME}>
          WHERE {

              ?derived_data prov:wasGeneratedBy ?execution .
              ?execution dcterms:identifier ?executionPidValue .
              ?derived_data dcterms:identifier ?pidValue .
            }
          ]]>
    </value>
  </constructor-arg>
</bean>

```

### 25.3.7 prov20150115.generatedByUser

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="prov20150115.generatedByUser" class="org.dataone.
↳cn.indexer.annotation.SparqlField">
  <constructor-arg name="name" value="prov_generatedByUser"/>
  <constructor-arg name="query">
    <value>
      <![CDATA[
        PREFIX rdf:      <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
        PREFIX rdfs:     <http://www.w3.org/2000/01/rdf-schema#>
        PREFIX owl:    <http://www.w3.org/2002/07/owl#>
        PREFIX prov:     <http://www.w3.org/ns/prov#>
        PREFIX provone:  <http://purl.dataone.org/provone/2015/01/15/ontology#>
        PREFIX ore:      <http://www.openarchives.org/ore/terms/>
        PREFIX dcterms:  <http://purl.org/dc/terms/>

```

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```

SELECT (str(?pidValue) as ?pid) ?prov_generatedByUser
FROM <$GRAPH_NAME>
WHERE {

    ?derived_data prov:wasGeneratedBy ?execution .
    ?execution prov:qualifiedAssociation ?association .
    ?association prov:agent ?prov_generatedByUser .
    ?derived_data dcterms:identifier ?pidValue .

}
]]>
</value>
</constructor-arg>
</bean>

```

### 25.3.8 prov20150115.usedByProgram

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="prov20150115.usedByProgram" class="org.dataone.cn.
↳indexer.annotation.SparqlField">
  <constructor-arg name="name" value="prov_usedByProgram"/>
  <constructor-arg name="query">
    <value>
      <![CDATA[
PREFIX rdf:      <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
PREFIX rdfs:     <http://www.w3.org/2000/01/rdf-schema#>
PREFIX owl:   <http://www.w3.org/2002/07/owl#>
PREFIX prov:    <http://www.w3.org/ns/prov#>
PREFIX provone: <http://purl.dataone.org/provone/2015/01/15/ontology#>
PREFIX ore:     <http://www.openarchives.org/ore/terms/>
PREFIX dcterms: <http://purl.org/dc/terms/>

SELECT (str(?pidValue) as ?pid) (str(?programPidValue) as ?prov_
↳usedByProgram)
FROM <$GRAPH_NAME>
WHERE {

    ?execution prov:used ?primary_data .
    ?execution prov:qualifiedAssociation ?association .
    ?association prov:hadPlan ?program .
    ?program dcterms:identifier ?programPidValue .
    ?primary_data dcterms:identifier ?pidValue .

}
]]>
</value>
</constructor-arg>
</bean>

```

### 25.3.9 prov20150115.usedByExecution

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="prov20150115.usedByExecution" class="org.dataone.
↳cn.indexer.annotation.SparqlField">
  <constructor-arg name="name" value="prov_usedByExecution"/>

```

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```

<constructor-arg name="query">
  <value>
    <![CDATA[
PREFIX rdf:      <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
PREFIX rdfs:     <http://www.w3.org/2000/01/rdf-schema#>
PREFIX owl:    <http://www.w3.org/2002/07/owl#>
PREFIX prov:     <http://www.w3.org/ns/prov#>
PREFIX provone: <http://purl.dataone.org/provone/2015/01/15/ontology#>
PREFIX ore:      <http://www.openarchives.org/ore/terms/>
PREFIX dcterms: <http://purl.org/dc/terms/>

SELECT (str(?pidValue) as ?pid) (str(?executionIdValue) as ?prov_
↪usedByExecution)
FROM <$GRAPH_NAME>
WHERE {

    ?execution prov:used ?primary_data .
    ?primary_data dcterms:identifier ?pidValue .
    ?execution dcterms:identifier ?executionIdValue .

    }
]]>
  </value>
</constructor-arg>
</bean>

```

### 25.3.10 prov20150115.usedByUser

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↪org/2001/XMLSchema-instance" id="prov20150115.usedByUser" class="org.dataone.cn.
↪indexer.annotation.SparqlField">
  <constructor-arg name="name" value="prov_usedByUser"/>
  <constructor-arg name="query">
    <value>
      <![CDATA[
PREFIX rdf:      <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
PREFIX rdfs:     <http://www.w3.org/2000/01/rdf-schema#>
PREFIX owl:    <http://www.w3.org/2002/07/owl#>
PREFIX prov:     <http://www.w3.org/ns/prov#>
PREFIX provone: <http://purl.dataone.org/provone/2015/01/15/ontology#>
PREFIX ore:      <http://www.openarchives.org/ore/terms/>
PREFIX dcterms: <http://purl.org/dc/terms/>

SELECT (str(?pidValue) as ?pid) ?prov_usedByUser
FROM <$GRAPH_NAME>
WHERE {

    ?execution prov:used ?primary_data .
    ?execution prov:qualifiedAssociation ?association .
    ?association prov:agent ?prov_usedByUser .
    ?primary_data dcterms:identifier ?pidValue .

    }
]]>
    </value>
  </constructor-arg>
</bean>

```

### 25.3.11 prov20150115.wasExecutedByExecution

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="prov20150115.wasExecutedByExecution" class="org.
↳dataone.cn.indexer.annotation.SparqlField">
  <constructor-arg name="name" value="prov_wasExecutedByExecution"/>
  <constructor-arg name="query">
    <value>
      <![CDATA[
        PREFIX rdf:      <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
        PREFIX rdfs:     <http://www.w3.org/2000/01/rdf-schema#>
        PREFIX owl:    <http://www.w3.org/2002/07/owl#>
        PREFIX prov:     <http://www.w3.org/ns/prov#>
        PREFIX provone:  <http://purl.dataone.org/provone/2015/01/15/ontology#>
        PREFIX ore:      <http://www.openarchives.org/ore/terms/>
        PREFIX dcterms:  <http://purl.org/dc/terms/>

        SELECT (str(?pidValue) as ?pid) (str(?executionIdValue) as ?prov_
↳wasExecutedByExecution)
          FROM <$GRAPH_NAME>
          WHERE {

              ?execution prov:qualifiedAssociation ?association .
              ?association prov:hadPlan ?program .
              ?execution dcterms:identifier ?executionIdValue .
              ?program dcterms:identifier ?pidValue .

            }
          ]]>
    </value>
  </constructor-arg>
</bean>

```

### 25.3.12 prov20150115.wasExecutedByUser

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="prov20150115.wasExecutedByUser" class="org.dataone.
↳cn.indexer.annotation.SparqlField">
  <constructor-arg name="name" value="prov_wasExecutedByUser"/>
  <constructor-arg name="query">
    <value>
      <![CDATA[
        PREFIX rdf:      <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
        PREFIX rdfs:     <http://www.w3.org/2000/01/rdf-schema#>
        PREFIX owl:    <http://www.w3.org/2002/07/owl#>
        PREFIX prov:     <http://www.w3.org/ns/prov#>
        PREFIX provone:  <http://purl.dataone.org/provone/2015/01/15/ontology#>
        PREFIX ore:      <http://www.openarchives.org/ore/terms/>
        PREFIX dcterms:  <http://purl.org/dc/terms/>

        SELECT (str(?pidValue) as ?pid) ?prov_wasExecutedByUser
          FROM <$GRAPH_NAME>
          WHERE {

              ?execution prov:qualifiedAssociation ?association .
              ?association prov:hadPlan ?program .

            }
          ]]>
    </value>
  </constructor-arg>
</bean>

```

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```

        ?association prov:agent ?prov_wasExecutedByUser .
        ?program dcterms:identifier ?pidValue .
    }
    ]]>
</value>
</constructor-arg>
</bean>

```

### 25.3.13 prov20150115.instanceOfClass

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="prov20150115.instanceOfClass" class="org.dataone.
↳cn.indexer.annotation.SparqlField">
  <constructor-arg name="name" value="prov_instanceOfClass"/>
  <constructor-arg name="query">
    <value>
      <![CDATA[
        PREFIX rdf:      <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
        PREFIX rdfs:     <http://www.w3.org/2000/01/rdf-schema#>
        PREFIX owl:    <http://www.w3.org/2002/07/owl#>
        PREFIX prov:     <http://www.w3.org/ns/prov#>
        PREFIX provone:  <http://purl.dataone.org/provone/2015/01/15/ontology#>
        PREFIX ore:      <http://www.openarchives.org/ore/terms/>
        PREFIX dcterms:  <http://purl.org/dc/terms/>

        SELECT (str(?pidValue) as ?pid) ?prov_instanceOfClass
        FROM <$GRAPH_NAME>
        WHERE {

            ?subject rdf:type ?prov_instanceOfClass .
            ?subject dcterms:identifier ?pidValue .

        }
      ]]>
    </value>
  </constructor-arg>
</bean>

```

### 25.3.14 prov20150115.hasDerivations

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="prov20150115.hasDerivations" class="org.dataone.cn.
↳indexer.annotation.SparqlField">
  <constructor-arg name="name" value="prov_hasDerivations"/>
  <constructor-arg name="query">
    <value>
      <![CDATA[
        PREFIX rdf:      <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
        PREFIX rdfs:     <http://www.w3.org/2000/01/rdf-schema#>
        PREFIX owl:    <http://www.w3.org/2002/07/owl#>
        PREFIX prov:     <http://www.w3.org/ns/prov#>
        PREFIX provone:  <http://purl.dataone.org/provone/2015/01/15/ontology#>
        PREFIX ore:      <http://www.openarchives.org/ore/terms/>

```

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```
    PREFIX dcterms: <http://purl.org/dc/terms/>
    PREFIX cito:    <http://purl.org/spar/cito/>

    SELECT (str(?pidValue) as ?pid) (str(?derivedDataPidValue) as ?prov_
→hasDerivations)
    FROM <${GRAPH_NAME}>
    WHERE {
        ?derived_data prov:wasDerivedFrom ?source_data .
        ?source_data dcterms:identifier ?pidValue .
        ?derived_data dcterms:identifier ?derivedDataPidValue .
    }
    ]]>
</value>
</constructor-arg>
</bean>
```



Describes parser configuration for: qualifiedDublinCoreSubprocessor

### 26.1 Format IDs Processed

This parser processes the following DataONE format IDs:

- Unknown

`formatId`: <http://dublincore.org/schemas/xmls/qdc/2008/02/11/qualifieddc.xsd>

A full list of DataONE format IDs can be found at <https://cn.dataone.org/cn/v2/formats/>

### 26.2 Fields

The following fields in the solr index are populated from values retrieved from this type of metadata document. Note that these are in addition to the information extracted from *System Metadata Parser*.

Solr Field	Multi	Dedupe	Source
<i>Index.abstract</i>	False	False	<pre>/**[local-name() = 'abstract'][1]/text()</pre> <p>Processor: SolrField Configuration: <i>dc.abstract</i></p>
<i>Index.author</i>	False	False	<pre>/**[local-name() = 'creator'][1]/text()</pre> <p>Processor: SolrField Configuration: <i>dc.author</i></p>
<i>Index.authorSurName</i>	False	False	<pre>/**[local-name() = 'creator'][1]/text()</pre> <p>Processor: SolrField Configuration: <i>dc.authorSurName</i></p>
<i>Index.authorSurNameSort</i>	False	False	<pre>/**[local-name() = 'creator'][1]/text()</pre> <p>Processor: SolrField Configuration: <i>dc.authorSurNameSort</i></p>
<i>Index.contactOrganization</i>	True	True	<pre>/**[local-name() = 'creator']/text()</pre> <p>Processor: SolrField Configuration: <i>dc.contactOrganization</i></p>
<i>Index.investigator</i>	True	True	<pre>/**[local-name() = 'creator']/text()</pre> <p>Processor: SolrField Configuration: <i>dc.investigator</i></p>
<i>Index.origin</i>	True	True	<pre>/**[local-name() = 'creator']/text()</pre> <p>Processor: SolrField Configuration: <i>dc.origin</i></p>
<i>Index.pubDate</i>	False	False	<pre>/**[local-name() = 'dateSubmitted']/text()</pre> <p>Processor: SolrField Configuration: <i>dc.pubDate</i></p> <p>Converter: SolrDateConverter</p>
<b>420</b> <i>dc.title</i>	False	False	<p style="text-align: right;"><b>Chapter 26. Dublin Core, Qualified</b></p> <pre>(/**[local-name() = 'title'][1]/text())[1]</pre> <p>Processor: SolrField</p>



## 26.3 Bean Configurations

### 26.3.1 dc.abstract

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dc.abstract" class="org.dataone.cn.indexer.parser.
↳SolrField">
    <constructor-arg name="name" value="abstract"/>
    <constructor-arg name="xpath" value="//*[local-name() = 'abstract'] [1]/
↳text() "/>
</bean>
```

### 26.3.2 dc.author

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dc.author" class="org.dataone.cn.indexer.parser.
↳SolrField">
    <constructor-arg name="name" value="author"/>
    <constructor-arg name="xpath" value="//*[local-name() = 'creator'] [1]/
↳text() "/>
</bean>
```

### 26.3.3 dc.authorSurName

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dc.authorSurName" class="org.dataone.cn.indexer.
↳parser.SolrField">
    <constructor-arg name="name" value="authorSurName"/>
    <constructor-arg name="xpath" value="//*[local-name() = 'creator'] [1]/
↳text() "/>
    <property name="multivalue" value="false"/>
</bean>
```

### 26.3.4 dc.authorSurNameSort

```
<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dc.authorSurNameSort" class="org.dataone.cn.
↳indexer.parser.SolrField">
    <constructor-arg name="name" value="authorSurNameSort"/>
    <constructor-arg name="xpath" value="//*[local-name() = 'creator'] [1]/
↳text() "/>
    <property name="multivalue" value="false"/>
</bean>
```

### 26.3.5 dc.contactOrganization

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dc.contactOrganization" class="org.dataone.cn.
↳indexer.parser.SolrField">
    <constructor-arg name="name" value="contactOrganization"/>
    <constructor-arg name="xpath" value="//*[local-name() = 'creator']/text()
↳"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>

```

### 26.3.6 dc.investigator

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dc.investigator" class="org.dataone.cn.indexer.
↳parser.SolrField">
    <constructor-arg name="name" value="investigator"/>
    <constructor-arg name="xpath" value="//*[local-name() = 'creator']/text()
↳"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>

```

### 26.3.7 dc.origin

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dc.origin" class="org.dataone.cn.indexer.parser.
↳SolrField">
    <constructor-arg name="name" value="origin"/>
    <constructor-arg name="xpath" value="//*[local-name() = 'creator']/text()
↳"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>

```

### 26.3.8 dc.pubDate

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dc.pubDate" class="org.dataone.cn.indexer.parser.
↳SolrField">
    <constructor-arg name="name" value="pubDate"/>
    <constructor-arg name="xpath" value="//*[local-name() = 'dateSubmitted']//
↳text()"/>
    <property name="converter" ref="dateConverter"/>
</bean>

```

### 26.3.9 dc.title

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dc.title" class="org.dataone.cn.indexer.parser.
↳SolrField">
    <constructor-arg name="name" value="title"/>
    <constructor-arg name="xpath" value="//*[local-name() = 'title'][1]/
↳text()[1]"/>
</bean>

```

### 26.3.10 dc.keywords

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dc.keywords" class="org.dataone.cn.indexer.parser.
↳SolrField">
    <constructor-arg name="name" value="keywords"/>
    <constructor-arg name="xpath" value="//*[local-name() = 'subject']/text()
↳"/>
    <property name="multivalue" value="true"/>
</bean>

```

### 26.3.11 dc.beginDate

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dc.beginDate" class="org.dataone.cn.indexer.parser.
↳SolrField">
    <constructor-arg name="name" value="beginDate"/>
    <constructor-arg name="xpath" value="//*[local-name() = 'temporal
↳'] [not (@xsi:type='dcterms:Period') and not (@xsi:type='dc:Period') and not (@xsi:type=
↳'Period')]/text()"/>
    <property name="multivalue" value="false"/>
    <property name="converter" ref="dateConverter"/>
</bean>

```

### 26.3.12 dc.endDate

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳org/2001/XMLSchema-instance" id="dc.endDate" class="org.dataone.cn.indexer.parser.
↳SolrField">
    <constructor-arg name="name" value="endDate"/>
    <constructor-arg name="xpath" value="//*[local-name() = 'temporal
↳'] [not (@xsi:type='dcterms:Period') and not (@xsi:type='dc:Period') and not (@xsi:type=
↳'Period')]/text()"/>
    <property name="multivalue" value="false"/>
    <property name="converter" ref="dateConverter"/>
</bean>

```

### 26.3.13 dc.site

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳ org/2001/XMLSchema-instance" id="dc.site" class="org.dataone.cn.indexer.parser.
↳ SolrField">
    <constructor-arg name="name" value="site"/>
    <constructor-arg name="xpath" value="//*[local-name() = 'spatial
↳ '][not(@xsi:type = 'dcterms:Box') and not(@xsi:type = 'dc:Box') and not(@xsi:type =
↳ 'Box')]/text()"/>
    <property name="multivalue" value="true"/>
    <property name="dedupe" value="true"/>
</bean>

```

### 26.3.14 dc.boxSpatialBoundCoordinates

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳ org/2001/XMLSchema-instance" id="dc.boxSpatialBoundCoordinates" class="org.dataone.
↳ cn.indexer.parser.DublinCoreSpatialBoxBoundingCoordinatesSolrField">
    <constructor-arg name="xpath" value="//*[local-name() = 'spatial
↳ '][@xsi:type='dcterms:Box' or @xsi:type='dc:Box' or @xsi:type='Box'] [1]/text() [1]"/>
</bean>

```

### 26.3.15 dc.boxSpatialGeohash

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳ org/2001/XMLSchema-instance" id="dc.boxSpatialGeohash" class="org.dataone.cn.
↳ indexer.parser.DublinCoreSpatialBoxGeohashSolrField">
    <constructor-arg name="xpath" value="//*[local-name() = 'spatial
↳ '][@xsi:type='dcterms:Box' or @xsi:type='dc:Box' or @xsi:type='Box'] [1]/text() [1]"/>
</bean>

```

### 26.3.16 dc.fileID

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳ org/2001/XMLSchema-instance" id="dc.fileID" class="org.dataone.cn.indexer.parser.
↳ ResolveSolrField">
    <constructor-arg name="name" value="fileID"/>
</bean>

```

### 26.3.17 dc.fullText

```

<bean xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.
↳ org/2001/XMLSchema-instance" id="dc.fullText" class="org.dataone.cn.indexer.parser.
↳ FullTextSolrField">
    <constructor-arg name="name" value="text"/>
    <constructor-arg name="xpath" value="//*/text()"/>
    <property name="combineNodes" value="true"/>
</bean>

```

Describes parser configuration for: resourceMapSubprocessor

### 27.1 Format IDs Processed

This parser processes the following DataONE format IDs:

- Object Reuse and Exchange Vocabulary  
formatId: <http://www.openarchives.org/ore/terms>

A full list of DataONE format IDs can be found at <https://cn.dataone.org/cn/v2/formats/>

### 27.2 Fields

The following fields in the solr index are populated from values retrieved from this type of metadata document. Note that these are in addition to the information extracted from *System Metadata Parser*.

### 27.3 Bean Configurations

#### Indices and tables

- genindex
- modindex
- search

Source for these documents and the generator is held in [GitHub](#).



i  
Index, 1





## Symbols

`_root_` (*in module Index*), 3  
`_version_` (*in module Index*), 3

### A

`abstract` (*in module Index*), 3  
`attribute` (*in module Index*), 3  
`attributeDescription` (*in module Index*), 4  
`attributeLabel` (*in module Index*), 4  
`attributeName` (*in module Index*), 4  
`attributeUnit` (*in module Index*), 4  
`author` (*in module Index*), 4  
`authorGivenName` (*in module Index*), 4  
`authorGivenNameSort` (*in module Index*), 4  
`authoritativeMN` (*in module Index*), 4  
`authorLastName` (*in module Index*), 4  
`authorSurName` (*in module Index*), 4  
`authorSurNameSort` (*in module Index*), 4  
`awardNumber` (*in module Index*), 4  
`awardTitle` (*in module Index*), 4

### B

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`blockedReplicationMN` (*in module Index*), 5

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`checksumAlgorithm` (*in module Index*), 5  
`class` (*in module Index*), 5  
`contactOrganization` (*in module Index*), 5  
`contactOrganizationText` (*in module Index*), 5

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`datePublished` (*in module Index*), 5  
`dateUploaded` (*in module Index*), 5

`decade` (*in module Index*), 5  
`documents` (*in module Index*), 5

### E

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`formatId` (*in module Index*), 6  
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`funderIdentifier` (*in module Index*), 6  
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`funding` (*in module Index*), 6  
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### G

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`geohash_4` (*in module Index*), 7  
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`geohash_6` (*in module Index*), 7  
`geohash_7` (*in module Index*), 7  
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`geohash_9` (*in module Index*), 7

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isSpatial (*in module Index*), 8

## K

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keywords (*in module Index*), 8  
keywordsText (*in module Index*), 8  
kingdom (*in module Index*), 8

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LTERSite (*in module Index*), 8

## M

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mediaTypeProperty (*in module Index*), 8

## N

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noBoundingBox (*in module Index*), 8  
northBoundCoord (*in module Index*), 8  
numberReplicas (*in module Index*), 8

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prov\_generatedByExecution (*in module Index*), 9  
prov\_generatedByProgram (*in module Index*), 9  
prov\_generatedByUser (*in module Index*), 10  
prov\_hasDerivations (*in module Index*), 10  
prov\_hasSources (*in module Index*), 10  
prov\_instanceOfClass (*in module Index*), 10  
prov\_used (*in module Index*), 10  
prov\_usedByExecution (*in module Index*), 10

prov\_usedByProgram (*in module Index*), 10  
prov\_usedByUser (*in module Index*), 10  
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prov\_wasExecutedByExecution (*in module Index*), 10  
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