

Entity and Attribute Definitions Report

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Total Pages: 20
Total Entities: 16

Parameters

<i>Application:</i>	ESF
<i>Entities:</i>	%
<i>ER Diagram:</i>	%
<i>Include Entity Notes?</i>	Y
<i>Include Attribute Descriptions?</i>	Y
<i>Include Attribute Notes?</i>	Y
<i>Include Attribute Values?</i>	Y
<i>Include Table of Contents?</i>	N
<i>Include Index of Entities?</i>	Y

Entity Name: COORDINATE SYSTEM CODE			<i>Short Name:</i>	CSC
<i>Plural:</i>	COORDINATE SYSTEM CODE			
<i>Init. Volume:</i>	6	<i>Avg. Volume:</i>	6	<i>Max. Volume:</i> 10
			<i>Annual Growth Rate:</i>	0%

Description:

The description of the reference frame for, and the means to encode, coordinates in the data set.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* COORDINATE SYSTEM CODE		N	VARCHAR2	15
A code to represent the spatial referencing system to reproject incoming submissions to before doing the validations.				
DESCRIPTION		N	VARCHAR2	120
Full description of the code value.				
EFFECTIVE DATE		N	DATE	
The date the value is available for use.				
EXPIRY DATE		N	DATE	
The date the value is no longer available for use.				
UPDATE TIMESTAMP		N	DATE	
The date and time the value was last modified.				
* = Attributes in primary unique identifier.				

Relationships:

Each Occurrence Of This Entity:

MAY BE assigned to one or more XML SCHEMA VERSION

* = Relationships in primary unique identifier.

Unique Identifiers:

CSYSC_PK	Primary	Y
COORDINATE SYSTEM CODE		

Entity Name: ELECTRONIC SUBMISSION**Short Name:** ESF_SUB**Plural:** ELECTRONIC SUBMISSION**Init. Volume:** 0**Avg. Volume:** 150000**Max. Volume:** 300000**Annual Growth Rate:** 10%**Description:**

A submission is an XML document that conforms to a schema defined in the XML SCHEMA REPOSITORY. Each instance of a submission will be tracked by this entity.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* SUBMISSION ID		N	NUMBER	10
A unique identifier to track a submission.				
SUBMISSION TIMESTAMP		N	DATE	
The date the submission was made.				
SUBMITTED BY		N	VARCHAR2	30
The USER ID of the person logged on when the submission was made.				
SUBMITTER GUID		N	VARCHAR2	32
The Globally Unique ID of the User as assigned by the Active Directories.				
ORGANIZATION		Y	VARCHAR2	255
The ORGANIZATION of the person logged on when the submission was made. This value is retrieved from the WebADE.				
<i>Depending on the source, this can hold things like a distinguished name from LDAP or an internal MoF client tracking number.</i>				
<i>2006-09-11 chboreen: This column was changed to optional as we no longer can track which Organization the submitter may be from if they are an IDIR user. There will be a value if they are BCeID as this is provided by the CAP Web Services.</i>				
ORGANIZATION GUID		Y	VARCHAR2	32
The Globally Unique ID of the Group as assigned by the Active Directories.				
ORGANIZATION SOURCE		Y	VARCHAR2	20
The data source that was used to retrieve the Organization information from. This is retrieved from the WebADE and will have values such as MoF User, IDir and BCeID.				
<i>2006-09-11 chboreen: This column was changed to optional as we no longer can track which Organization the submitter may be from if they are an IDIR user. There will be a value if they are BCeID as this is provided by the CAP Web Services.</i>				
EMAIL ID		Y	VARCHAR2	255
The email address that can be used to distribute subsequent information about a submission.				
USER FILE NAME		Y	VARCHAR2	50
The name of the file that the user uploaded.				
USER REFERENCE		Y	VARCHAR2	50
A reference that the user can optionally supply. This field can be used by the user to search on for outstanding submissions.				
STATUS CHANGE TIMESTAMP		N	DATE	
The date the status of this submission was last changed.				
LAST CHECKED TIMESTAMP		Y	DATE	
The date and time this submission was viewed on the WEB.				
<i>The idea Brian Howden had here was to find a way to determine when the status of a record was last checked. That way we would avoid emailing people who have viewed it via the WEB. I think we agreed this might be more complex and backfire and we might be better off just to email either status changes or weekly or daily batches of messages. The Ministry of Forests has a Mail Interface in the WEB ADE that provides that kind of service.</i>				
* = Attributes in primary unique identifier.				

Relationships:

Entity Name:	ELECTRONIC SUBMISSION (cont'd)	<i>Short Name:</i>	ESF_SUB
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Each Occurrence Of This Entity:

- MUST BE have a status of one and only one ESF STATUS CODE
- MAY BE have one or more ESF SUBMISSION AUDIT
- MAY BE has associated messages one or more ESF SUBMISSION MESSAGE
- MAY BE augmented by one or more SUBMISSION ATTACHMENT
- MAY BE have an original archive one and only one SUBMISSION DOCUMENT
- MUST BE based on one and only one XML SCHEMA VERSION

* = Relationships in primary unique identifier.

Unique Identifiers:

ESF_SUB	Primary	Y
SUBMISSION ID		

Entity Name: ESF AGENT QUEUE XREF			<i>Short Name:</i>	EAQX
<i>Plural:</i>	ESF AGENT QUEUE XREF			
<i>Init. Volume:</i>	2	<i>Avg. Volume:</i>	5	<i>Max. Volume:</i> 25
			<i>Annual Growth Rate:</i>	1%

Description:
Resolves the many to many between a queue and agents.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* = Attributes in primary unique identifier.				

- Relationships:*
Each Occurrence Of This Entity:
- * MUST BE receive submission from one and only one ESF DISTRIBUTION QUEUE
 - * MUST BE subscribed to by one and only one ESF QUEUE AGENT
- * = Relationships in primary unique identifier.

Unique Identifiers:

EAQX	Primary	Y
MUST BE receive submission from one and only one ESF DISTRIBUTION QUEUE		
MUST BE subscribed to by one and only one ESF QUEUE AGENT		

Entity Name: ESF AUDIT MESSAGE			<i>Short Name:</i> ESF_AM	
<i>Plural:</i> ESF AUDIT MESSAGE				
<i>Init. Volume:</i> 10		<i>Avg. Volume:</i> 15		<i>Max. Volume:</i> 20
				<i>Annual Growth Rate:</i> 1%

Description:

Allows a way to standardize the audit messages for the framework. As new messages are added the application will need to be updated but the text can be managed without an application change.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* ESF AUDIT MESSAGE ID		N	NUMBER	10
A unique identifier for an audit message.				
<i>This will likely need to be known by any application using it so a sequence number is not necessarily a good implementation for managing the values.</i>				
AUDIT MESSAGE		N	VARCHAR2	2000
The text that would be displayed to describe the audit entry. Examples include "submission added to the queue", "email notification sent", "email notification failed". The timestamp in the ESF SUBMISSION AUDIT table provide information on when the event took place.				
* = Attributes in primary unique identifier.				

Relationships:

Each Occurrence Of This Entity:

MAY BE message details for one or more ESF SUBMISSION AUDIT

* = Relationships in primary unique identifier.

Unique Identifiers:

EAM_PK	Primary	Y
ESF AUDIT MESSAGE ID		

Notes:

In practice this might not provide that much extra value but it will save on space if the ESF SUBMISSION AUDIT table gets large.

Entity Name: ESF DISTRIBUTION QUEUE**Short Name:** ESF_DQ**Plural:** ESF DISTRIBUTION QUEUE**Init. Volume:** 2**Avg. Volume:** 5**Max. Volume:** 25**Annual Growth Rate:** 1%**Description:**

Stores information about the message queue which a ESF submission will be sent to for processing. In order to ensure the framework is generic from a distribution perspective the XML submissions will be placed in a message queue. Each business area can develop custom code (message queue agents) to asynchronously process the document. This will allow the framework to complete its portion of the transaction even if remote systems are not available. It will be the responsibility of the remote system to update the status of the submission. (this could be done via messaging as well).

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* ESF DISTRIBUTION QUEUE NAME		N	VARCHAR2	50
The name of the queue that the message needs to be distributed to.				
QUEUE JDBC URL		N	VARCHAR2	255
The JDBC URL of the server in which the message queue resides.				
SYNTAX: jdbc:oracle:thin:@<hostname>:<port>:<sid>				
<i>JDBC stands for "Java DataBase Connectivity". This is the standard Java format for defining the connection string for the database. Similar to TNSNAMES.ORA.</i>				
DB SCHEMA		N	VARCHAR2	50
The database schema in which the queue resides.				
DB USERNAME		N	VARCHAR2	50
The username to use when connecting to the queue.				
DB PASSWORD		N	VARCHAR2	50
The password used to connect to the schema which contains the message queues.				
CONTACT EMAIL ID		Y	VARCHAR2	255
The SMTP address of the person(s) responsible for this queue. This address would be contacted if problems arose with this particular queue.				
<i>This is useful if the queues are on distributed systems and there no single person responsible for the queues.</i>				
EXCEPTION QUEUE NAME		Y	VARCHAR2	50
The queue in which problem messages destined for this distribution queue will be placed.				
SINGLE SUBSCRIBER IND		N	VARCHAR2	1
An indicator as to whether the queue supports multiple or single subscribers.				
<i>Values can be 'Y' or 'N'. Y indicates a single subscriber and N indicates a multiple subscriber. The default is N.</i>				
REVISION COUNT		N	NUMBER	10
Internal counter used by the system to avoid conflicting updates to the record.				
ENTRY USERID		N	VARCHAR2	30
The userid of the person who created the record.				
ENTRY TIMESTAMP		N	DATE	
The date and time the record was created.				
UPDATE USERID		N	VARCHAR2	30
If the record was updated, the user id of the person who updated the record.				
UPDATE TIMESTAMP		N	DATE	
If the record has been updated, the date and time the update took place.				
* = Attributes in primary unique identifier.				

Relationships:Each Occurrence Of This Entity:

MAY BE subscribed to by one or more ESF AGENT QUEUE XREF

MAY BE a destination for one or more ESF SCHEMA QUEUE XREF

* = Relationships in primary unique identifier.

Unique Identifiers:

Entity Name:	ESF DISTRIBUTION QUEUE (cont'd)	<i>Short Name:</i>	ESF_DQ
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ESF_DQ	<i>Primary</i>	Y
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ESF DISTRIBUTION QUEUE NAME

Entity Name:	ESF EMAIL FREQUENCY CODE			<i>Short Name:</i>	EFC
<i>Plural:</i>	ESF EMAIL FREQUENCY CODE				
<i>Init. Volume:</i>	5	<i>Avg. Volume:</i>	5	<i>Max. Volume:</i>	5
				<i>Annual Growth Rate:</i>	0%

Description:

A code to describe the frequency at which an email is to be sent to an individual with regards to an electronic submission. At each interval all ESF SUBMISSION MESSAGES not previously sent for a submission will be sent.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* ESF EMAIL FREQUENCY CODE		N	VARCHAR2	1
A code to represent how often an email should be sent out detailing messages for a submission. Emails can be sent out never, immediately, daily or weekly.				
Values may be the following:				
I >>> Immediately				
D >>> Daily				
W >>> Weekly				
N >>> Never				
DESCRIPTION		N	VARCHAR2	120
Full description of the code value.				
EFFECTIVE DATE		N	DATE	
The date the value is available for use.				
EXPIRY DATE		N	DATE	
The date the value is no longer available for use.				
UPDATE TIMESTAMP		N	DATE	
The date and time the value was last modified.				
* = Attributes in primary unique identifier.				

Relationships:

Each Occurrence Of This Entity:

MAY BE email frequency for one or more XML SCHEMA
* = Relationships in primary unique identifier.

Unique Identifiers:

EFC_PK	Primary	Y
ESF EMAIL FREQUENCY CODE		

Entity Name: ESF MINISTRY CODE			<i>Short Name:</i>	MIN
<i>Plural:</i>	ESF MINISTRY CODE			
<i>Init. Volume:</i>	2	<i>Avg. Volume:</i>	2	<i>Max. Volume:</i> 30
			<i>Annual Growth Rate:</i>	0%

Description:

An major organization unit within the provincial government.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* ESF MINISTRY CODE		N	VARCHAR2	10
Unique code to define a ministry				
DESCRIPTION		N	VARCHAR2	120
Name of the ministry.				
EFFECTIVE DATE		N	DATE	
The date the value is available for use.				
EXPIRY DATE		N	DATE	
The date the value is no longer available for use.				
UPDATE TIMESTAMP		N	DATE	
The date and time the value was last modified.				
* = Attributes in primary unique identifier.				

Relationships:

Each Occurrence Of This Entity:

MAY BE owns one or more XML SCHEMA

* = Relationships in primary unique identifier.

Unique Identifiers:

MIN	Primary	Y
ESF MINISTRY CODE		

Entity Name: ESF QUEUE AGENT**Short Name:** ESF_AGENT**Plural:** ESF QUEUE AGENT**Init. Volume:** 2**Avg. Volume:** 5**Max. Volume:** 25**Annual Growth Rate:** 1%**Description:**

A queue agent is responsible for removing the messages from an ESF Distribution Queue and applying the message as defined by the business area.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* ESF QUEUE AGENT ID		N	NUMBER	10
A unique identifier for a queue agent.				
AGENT NAME		N	VARCHAR2	30
Descriptive name of the agent. Should give some idea to an administrator as to the function of the agent.				
DESCRIPTION		Y	VARCHAR2	255
An explanation of the purpose of the agent for display in the administration website.				
CONTACT EMAIL ID		Y	VARCHAR2	255
The SMTP address of the person to contact regarding the agent.				
LAST PING ATTEMPT		Y	DATE	
The last date and time the ESF system attempted to contact the agent.				
LAST PING SUCCESS		Y	DATE	
The last date and time the ESF system successfully contacted the agent for a status or ping.				
JMX_SERVICE_URL		Y	VARCHAR2	1000
A JMX Service URL as specified by the JMX specification. This URL is used to remotely connect to Custom Business Agents running in remote JMX installations.				
REVISION COUNT		N	NUMBER	10
Internal counter used by the system to avoid conflicting updates to the record.				
ENTRY USERID		N	VARCHAR2	30
The userid of the person who created the record.				
ENTRY TIMESTAMP		N	DATE	
The date and time the record was created.				
UPDATE USERID		N	VARCHAR2	30
If the record was updated, the user id of the person who updated the record.				
UPDATE TIMESTAMP		N	DATE	
If the record has been updated, the date and time the update took place.				

* = Attributes in primary unique identifier.

Relationships:Each Occurrence Of This Entity:

MAY BE message agent location one or more ESF AGENT QUEUE XREF

* = Relationships in primary unique identifier.

Unique Identifiers:

ESF_AN Primary N

AGENT NAME

ESF_QA Primary Y

ESF QUEUE AGENT ID

Entity Name: ESF SCHEMA QUEUE XREF			<i>Short Name:</i>	ESQX
<i>Plural:</i>	ESF SCHEMA QUEUE XREF			
<i>Init. Volume:</i>	2	<i>Avg. Volume:</i>	5	<i>Max. Volume:</i> 25
			<i>Annual Growth Rate:</i>	1%

Description:

Resolution entity. Allows the ability to specify a XSL document to be applied to a message before being dropped into the designated queue.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
XSLT URL		Y	VARCHAR2	255
The URL of the transformation to apply against a submission before placing onto the designated queue.				
We may want to store the actual XSLT within the database and have the system generate the file to the URL.				
* = Attributes in primary unique identifier.				

Relationships:

Each Occurrence Of This Entity:

- * MUST BE designate one and only one ESF DISTRIBUTION QUEUE
- * MUST BE related to one and only one XML SCHEMA VERSION
- * = Relationships in primary unique identifier.

Unique Identifiers:

ESQX	Primary	Y
MUST BE related to one and only one XML SCHEMA VERSION		
MUST BE designate one and only one ESF DISTRIBUTION QUEUE		

Entity Name: ESF SUBMISSION AUDIT				<i>Short Name:</i> ESA	
<i>Plural:</i> ESF SUBMISSION AUDIT					
<i>Init. Volume:</i> 0		<i>Avg. Volume:</i> 1500000		<i>Max. Volume:</i> 3000000	
				<i>Annual Growth Rate:</i> 10%	

Description:

Several events that occur for a submission need to be audited in order to be able to provide debugging information. Examples of the events are submission received, notification sent, transmission failure, queue failure.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* ESF SUBMISSION AUDIT ID		N	NUMBER	10
A unique identifier for the audit entry.				
AUDIT SOURCE		N	VARCHAR2	100
The source that has initiated the audit message.				
<i>This will hold values as to who generated the audit message such as Submission Borker or ESF Agent or FTA Agent.</i>				
AUDIT TIMESTAMP		N	DATE	
The date and time the audit entry was made.				
EXTENDED AUDIT INFO		Y	VARCHAR2	4000
Information will be added to this field by the Agents to aid in the troubleshooting of a message processing failure.				
<i>The contents of this field may be information such as a Java stacktrace or other useful debugging information.</i>				
* = Attributes in primary unique identifier.				

Relationships:

Each Occurrence Of This Entity:

MUST BE audit trail for one and only one ELECTRONIC SUBMISSION

MUST BE audit type for one and only one ESF AUDIT MESSAGE

* = Relationships in primary unique identifier.

Unique Identifiers:

ESF_ESA_PK	Primary	Y
<i>ESF SUBMISSION AUDIT ID</i>		

Entity Name: ESF SUBMISSION MESSAGE**Short Name:** ESF_SM**Plural:** ESF SUBMISSION MESSAGE**Init. Volume:** 0**Avg. Volume:** 1500000**Max. Volume:** 3000000**Annual Growth Rate:** 10%**Description:**

Each submission may have several messages associated with it. This entity tracks messages received by the process or systems processing a submission. Examples include approvals, rejections, in progress etc.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* ESF SUBMISSION MESSAGE ID		N	NUMBER	10
Unique ID for messages.				
MESSAGE ORIGINATOR		Y	VARCHAR2	50
The individual (or possibly organization) that put the message in the queue.				
EXTERNAL MESSAGE CD		Y	VARCHAR2	10
This enables codes to be passed to the framework by the appropriate system. External systems that want an electronic interface to the submission messages will be able to group the messages by these codes. The codes will be specific to the originator of the message and meaningless to the electronic submission framework.				
<i>Brian Howden suggested on Nov 21th based on feedback from a forestry company. Seemed like a good idea so I did not want to lose it.</i>				
MESSAGE CONTENT		N	VARCHAR2	4000
The content of the message. The message will be text based and may contain HTML.				
MESSAGE TIMESTAMP		N	DATE	
The date and time the message was placed in the queue.				
FROM EMAIL ADDRESS		Y	VARCHAR2	255
The address to be used as the 'FROM' field in the ESF notification email. This will override the default ESF notification scheme.				
<i>An Agent may override the standard ESF notification scheme by providing an email address the ESF notification is to come from. Ideally, when a user replies to a message, it will go to somebody in their local district office.</i>				

* = Attributes in primary unique identifier.

Relationships:Each Occurrence Of This Entity:

MUST BE message content for one and only one ELECTRONIC SUBMISSION

* = Relationships in primary unique identifier.

Unique Identifiers:

ESF_SM Primary Y

ESF SUBMISSION MESSAGE ID

When the submission process is complete (the submission enters a state of ACCEPTED, REJECTED, PARTIAL) the attachments for the submission will be purged by the ESF Agent.

Entity Name: SUBMISSION DOCUMENT		<i>Short Name:</i>	SUBDOC
<i>Plural:</i>	SUBMISSION DOCUMENT		
<i>Init. Volume:</i>	<i>Avg. Volume:</i>	<i>Max. Volume:</i>	<i>Annual Growth Rate:</i>

Description:

An XML document that conforms to a schema defined in the XML SCHEMA REPOSITORY. Each instance of a submission will be tracked by this entity.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
SUBMISSION DOCUMENT		N	VIDEO	
A copy of the original XML submission document made to ESF by the submitter.				
<i>This will need to be transformed to a BLOB in the physical model.</i>				
* = Attributes in primary unique identifier.				

Relationships:

Each Occurrence Of This Entity:

- * MUST BE an original archive for one and only one ELECTRONIC SUBMISSION
- * = Relationships in primary unique identifier.

Unique Identifiers:

SUBDOC	<i>Primary</i>	Y
<i>MUST BE an original archive for one and only one ELECTRONIC SUBMISSION</i>		

Notes:

ESF will store a copy of the original submission if the ARCHIVE IND is set for the submission type.

Entity Name: XML SCHEMA**Short Name:** ESF_SC**Plural:** XML SCHEMA**Init. Volume:** 2**Avg. Volume:** 5**Max. Volume:** 25**Annual Growth Rate:** 1%**Description:**

The content of an XML document is validated against an XML Schema. This table is the repository of known schema's for the electronic submission web-site.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* XML SCHEMA ID		N	NUMBER	10
A unique identifier to track a schema within the repository.				
SCHEMA NAME		N	VARCHAR2	50
A XML schema defines the requirements for a XML submission. The submission can be any number of features or groupings of information that the BC government wishes to receive information on. Examples are Silviculture Standards Submission, Cutting Permit Application, Silviculture Activities, Arch study, TRIM Watershed update etc.				
DISPLAY NAME		N	VARCHAR2	50
The well-known business name for a submission type that will be displayed to the clients.				
DESCRIPTION		Y	VARCHAR2	255
A description of the schema suitable for display by an application.				
SCHEMA NAMESPACE		N	VARCHAR2	1000
A URL that uniquely identifies a specific schema.				
CURRENT VERSION		N	NUMBER	10
Defines the most current version for this schema.				
ORG UNIT CODE		Y	VARCHAR2	255
The code of the organization that is responsible for this schema.				
<i>At this time the code will not be related to an Org Unit Code table. This will be addressed in the future when a corporate (cross-government) entity of this type exists.</i>				
CONTACT NAME		Y	VARCHAR2	255
The name of the person responsible for the schema.				
CONTACT EMAIL ID		Y	VARCHAR2	255
The SMTP address of the person(s) responsible for the schema.				
SUBMISSION ARCHIVE IND		N	VARCHAR2	1
An indicator as to whether the incoming submission file should be archived in the database.				
<i>Values can be 'Y' or 'N'.</i>				
SUBMISSION ARCHIVE DURATION		Y	NUMBER	10
The number of days a submission should be archived for within the framework, should the "Archive Submission Indicator" be set to "Y".				
<i>A clean up process will either delete the blobs from the database or remove the files from the filesystem, depending on where the submission is stored.</i>				
MAX FILE SIZE		Y	NUMBER	10
The maximum file size in megabytes that will be accepted for this submission. This includes the submission and any attachments. This is on a file by file basis.				
<i>This may be NULL. The system default will be used if not specified.</i>				
ENABLED IND		N	VARCHAR2	1
Indicates whether this schema is temporarily disabled. This will ensure that all versions of the schema are also disabled.				
MAIL TASK ID		Y	NUMBER	10
The task ID within WebADE for the mailing task job. This ID will be used when preparing to send messages regarding this schema.				
REVISION COUNT		N	NUMBER	10

Entity Name:	XML SCHEMA (cont'd)	<i>Short Name:</i>	ESF_SC
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Internal counter used by the system to avoid conflicting updates to the record.			
ENTRY USERID	N	VARCHAR2	30
The userid of the person who created the record.			
ENTRY TIMESTAMP	N	DATE	
The date and time the record was created.			
UPDATE USERID	N	VARCHAR2	30
If the record was updated, the user id of the person who updated the record.			
UPDATE TIMESTAMP	N	DATE	
If the record has been updated, the date and time the update took place.			
* = <i>Attributes in primary unique identifier.</i>			

Relationships:

Each Occurrence Of This Entity:

MUST BE requests email to be sent at one and only one ESF EMAIL FREQUENCY CODE

MUST BE is owned by one and only one ESF MINISTRY CODE

MAY BE contains one or more XML SCHEMA VERSION

* = *Relationships in primary unique identifier.*

Unique Identifiers:

ESF_SN	Primary	N
SCHEMA NAME		
ESF_SR_PK	Primary	Y
XML SCHEMA ID		

Notes:

Bonnie noted that the submission type is missing. This what represents (implements) a submission type. We could rename but then it does not match the logical view of the schema management that is also part of this project.

Entity Name: XML SCHEMA VERSION**Short Name:** ESF_SV**Plural:** XML SCHEMA VERSION**Init. Volume:** 4**Avg. Volume:** 25**Max. Volume:** 100**Annual Growth Rate:** 1%**Description:**

Each schema in the repository can contain multiple versions. The framework needs to support validate documents submitted using an older schema version. This entity contains the schema for each of those version(s).

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* XML SCHEMA VERSION		N	NUMBER	10
The version identifier for a specific version of a schema.				
SCHEMA URL		N	VARCHAR2	255
The official location of the schema located within the ESF system. This URL will be used to validate the submission by both the submission framework and the clients when generating the submissions.				
<i>We may want to make the official location of a schema in the database as a blob and have the system generate the file to the URL.</i>				
SUBMISSION SUMMARY XSLT URL		Y	VARCHAR2	255
The URL to the XSLT that will transform the incoming submission into a summary to be displayed after the submission has been accepted.				
<i>This will give information like the number of cut blocks or openings or whatever. Just some Meta data about the contents of the submission to display to the submitter to give them some feedback on the contents of the submission.</i>				
<i>We may want to store the actual XSLT within the database and have the system generate the file to the URL.</i>				
MORE INFO URL		Y	VARCHAR2	255
An optional field that allows the framework to provide a URL that re-directs a user to another system that may provide more detail on the status.				
<i>This could also be included with a message so this is only a general purpose field. We could add a rule that says the submission_id will be added to the URL.</i>				
SUPPORTED IND		N	VARCHAR2	1
A version over time may no longer be supported. If the value of this column is "N" it means the version is not supported and a submission should not be accepted.				
VALIDATE SPATIAL IND		N	VARCHAR2	1
Indicator of whether or not to perform validation on any spatial submissions using this schema version.				
<i>This value will either be a 'Y' or an 'N'.</i>				
MAP TOOLS IND		N	VARCHAR2	1
Indictaes whether the ESF Map Visualization Tools are enabled for this Schema Version. The tools include an IMF based mapping tool, a feature attribute report and a Land Use Report.				
<i>This value will either be a 'Y' or an 'N'.</i>				
SUBMISSION ITEM XSLT URL		Y	VARCHAR2	255
The URL to the XSLT that will transform the incoming submission into a generalized summary-item format. This format is used by each of the ESF Map Visualization Tools.				
IMF CONFIG PARAMETERS		Y	VARCHAR2	255
These are URL querystring parameters that will be passed to the IMF for initialization of the mapping feature. The most common use will be to specify the site configuration for IMF.				
<i>e.g. siteconfig=mof_img_tms</i>				
SOE LAYER CONFIG URL		Y	VARCHAR2	255
A URL which points to the location of an SOE Layer List Configuration file. This config file is used when generating the Land Use report.				
ATTACHMENT IND		N	VARCHAR2	1

Entity Name:	XML SCHEMA VERSION (cont'd)	<i>Short Name:</i>	ESF_SV
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Indicates whether the schema version is to support attachments to be uploaded with the submission.			
ATTACHMENT CONFIG URL	Y	VARCHAR2	255
The URL to the XML document that defines the types of attachments this schema version will accept.			
REVISION COUNT	N	NUMBER	10
Internal counter used by the system to avoid conflicting updates to the record.			
ENTRY USERID	N	VARCHAR2	30
The userid of the person who created the record.			
ENTRY TIMESTAMP	N	DATE	
The date and time the record was created.			
UPDATE USERID	N	VARCHAR2	30
If the record was updated, the user id of the person who updated the record.			
UPDATE TIMESTAMP	N	DATE	
If the record has been updated, the date and time the update took place.			
* = Attributes in primary unique identifier.			

Relationships:

Each Occurrence Of This Entity:

- MAY BE reprojected using one and only one COORDINATE SYSTEM CODE
- MAY BE schema for one or more ELECTRONIC SUBMISSION
- MAY BE defined by one or more ESF SCHEMA QUEUE XREF
- * MUST BE a schema version for one and only one XML SCHEMA
- * = Relationships in primary unique identifier.

Unique Identifiers:

ESF_SURL	Primary	N
SCHEMA URL		
ESF_SV	Primary	Y
MUST BE a schema version for one and only one XML SCHEMA		
XML SCHEMA VERSION		

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