Table and Column Definitions Report

Filename:	h:\tempforests\ESF_TAB_COL.pdf
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Parameters

Workarea:	GLOBAL SHARED WORKAREA
Container:	ESF
Table / View / Materialized View:	%
Include Tables?	Y
Include Views?	Y
Include Materialized Views?	Y
Data Structure Diagram:	%
Exclude Prefix:	
Include Table / View / MV Descriptions?	Y
Include Table / View / MV Comments?	N
Include Column Descriptions?	Y
Include Column Comments?	N
Include Column Notes?	Y
Include Unique Constraints?	Y
Include Foreign Key Constraints?	Y
Include Check Constraints?	Y
Include Indexes?	Y

Table: COORDINATE_SYSTEM_CODE

Description:

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

Columns:

Seq.	Column	Nulls?	Type
* 1	COORDINATE_SYSTEM_CODE	NOT NULL	VARCHAR2(15)
	A code to represent the spatial referencing system to reproject incoming submissions to before doing the validations.		
2	DESCRIPTION	NOT NULL	VARCHAR2(120)
	Full description of the code value.		
3	EFFECTIVE_DATE	NOT NULL	DATE
	The date the value is available for use.		
4	EXPIRY_DATE	NOT NULL	DATE
	The date the value is no longer available for use.		
5	UPDATE_TIMESTAMP	NOT NULL	DATE
	The date and time the value was last modified.		

Table: ELECTRONIC_SUBMISSION

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.

Columns:

Seq.	Column	Nulls?	Type
* 1	SUBMISSION_ID	NOT NULL	NUMBER(10)
	A unique identifier to track a submission.		
6	ESF_STATUS_CODE	NOT NULL	VARCHAR2(3)
	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.		
7	XML_SCHEMA_ID	NOT NULL	NUMBER(10)
	A unique identifier to track a schema within the repository.		
8	XML_SCHEMA_VERSION	NOT NULL	NUMBER(10)
	The version identifier for a specific version of a schema.		
14	SUBMISSION_TIMESTAMP	NOT NULL	DATE
	The date the submission was made.		
15	SUBMITTED_BY	NOT NULL	VARCHAR2(30)
	The USER ID of the person logged on when the submission was made.		
16	SUBMITTER_GUID	NOT NULL	VARCHAR2(32)
	The Globally Unique ID of the User as assigned by the Active Directories.		
17	ORGANIZATION	NULL	VARCHAR2(255)
	The ORGANIZATION of the person logged on when the submission was made. This value is retrieved from the WebADE. *Depending on the source, this can hold things like a distinguished name from LDAP or an internal MoF client tracking number.* *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.*		
22	ORGANIZATION_GUID	NULL	VARCHAR2(32)
	The Globally Unique ID of the Group as assigned by the Active Directories.		
23	ORGANIZATION_SOURCE	NULL	VARCHAR2(20)
	The data source that was used to retrieve the Organization information from. This is retreived from the WebADE and will have values such as MoF User, IDir and BCeID. *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.*		
28	EMAIL_ID	NULL	VARCHAR2(255)
	The email address that can be used to distribute subsequent information about a submission.		
33	USER_FILE_NAME	NULL	VARCHAR2(50)
	The name of the file that the user uploaded.		
38	USER_REFERENCE	NULL	VARCHAR2(50)
	A reference that the user can optionally supply. This field can be used by the user to search on for outstanding submissions.		
39	STATUS_CHANGE_TIMESTAMP	NOT NULL	DATE
	The date the status of this submission was last changed.		
44	LAST_CHECKED_TIMESTAMP	NULL	DATE
	The date and time this submission was viewed on the WEB. *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.*		

Foreign Keys:

ESF_SUB_ESC_FK
ESF_STATUS_CODE = ESF_STATUS_CODE.ESF_STATUS_CODE
ESF_SUB_ESF_SV_FK

Table: ELECTRONIC_SUBMISSION (cont'd)

Foreign Keys:

XML_SCHEMA_ID = XML_SCHEMA_VERSION.XML_SCHEMA_ID
XML_SCHEMA_VERSION = XML_SCHEMA_VERSION.XML_SCHEMA_VERSION

Indexes:

ESF_SUB_ESC_FK_I
ESF_STATUS_CODE
ESF_SUB_ESF_SV_FK_I
XML_SCHEMA_ID
XML_SCHEMA_VERSION

Table: ESF_AGENT_QUEUE_XREF

Description:

Resolves the many to many between a queue and agents.

Columns:

Seq.	Column	Nulls?	Type
* 2	ESF_QUEUE_AGENT_ID A unique identifer for a queue agent.	NOT NULL	NUMBER(10)
* 4	ESF_DISTRIBUTION_QUEUE_NAME The name of the queue that the message needs to be distributed to.	NOT NULL	VARCHAR2(50)

Foreign Keys:

EAQX_ESF_AGENT_FK
ESF_QUEUE_AGENT_ID = ESF_QUEUE_AGENT.ESF_QUEUE_AGENT_ID
EAQX_ESF_DQ_FK
ESF_DISTRIBUTION_QUEUE_NAME = ESF_DISTRIBUTION_QUEUE.ESF_DISTRIBUTION_QUEUE_NAME

Indexes:

EAQX_ESF_AGENT_FK_I
ESF_QUEUE_AGENT_ID
EAQX_ESF_DQ_FK_I
ESF_DISTRIBUTION_QUEUE_NAME

Table: ESF_AUDIT_MESSAGE

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.

Columns:

Seq.	Column	Nulls?	Type
* 1	ESF_AUDIT_MESSAGE_ID	NOT NULL	NUMBER(10)
	A unique identifer for an audit message. *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.*		
2	AUDIT_MESSAGE	NOT NULL	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.		

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.

Table: ESF_DISTRIBUTION_QUEUE

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 asyncrhonously process the document. This will allow the framework to complete its portion of the the transaction even if remote systems are not avaiable. It will be the responsiblity of the remote system to update the status of the submission. (this could be done via messaging as well).

Columns:

Seq.	Column	Nulls?	Type
* 1	ESF_DISTRIBUTION_QUEUE_NAME	NOT NULL	VARCHAR2(50)
	The name of the queue that the message needs to be distributed to.		
2	QUEUE_JDBC_URL	NOT NULL	VARCHAR2(255)
	The JDBC URL of the server in which the message queue resides. SYNTAX: jdbc:oracle:thin:@<hostname>:<port>:<sid> *JDBC stands for "Java DataBase Connectivity". This is the standard Java format for defining the connection string for the database. Similar to TNSNAMES.ORA.*		
3	DB_SCHEMA	NOT NULL	VARCHAR2(50)
	The database schema in which the queue resides.		
4	DB_USERNAME	NOT NULL	VARCHAR2(50)
	The username to use when connecting to the queue.		
5	DB_PASSWORD	NOT NULL	VARCHAR2(50)
	The password used to connect to the schema which contains the message queues.		
6	CONTACT_EMAIL_ID	NULL	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. *This is useful if the queues are on distributed systems and there no single person responsible for the queues.*		
7	EXCEPTION_QUEUE_NAME	NULL	VARCHAR2(50)
	The queue in which problem messages destined for this distribution queue will be placed.		
12	SINGLE_SUBSCRIBER_IND	NOT NULL	VARCHAR2(1)
	An indicator as to whether the queue supports multiple or single subscribers. *Values can be 'Y' or 'N'. Y indicates a single subscriber and N indicates a multiple subscriber. The default is N.*		
13	REVISION_COUNT	NOT NULL	NUMBER(10)
	Internal counter used by the system to avoid conflicting updates to the record.		
14	ENTRY_USERID	NOT NULL	VARCHAR2(30)
	The userid of the person who created the record.		
15	ENTRY_TIMESTAMP	NOT NULL	DATE
	The date and time the record was created.		
16	UPDATE_USERID	NOT NULL	VARCHAR2(30)
	If the record was updated, the user id of the person who updated the record.		
17	UPDATE_TIMESTAMP	NOT NULL	DATE
	If the record has been updated, the date and time the update took place.		

Table: ESF_EMAIL_FREQUENCY_CODE

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.

Columns:

Seq.	Column	Nulls?	Type
* 1	ESF_EMAIL_FREQUENCY_CODE	NOT NULL	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*		
2	DESCRIPTION	NOT NULL	VARCHAR2(120)
	Full description of the code value.		
3	EFFECTIVE_DATE	NOT NULL	DATE
	The date the value is available for use.		
4	EXPIRY_DATE	NOT NULL	DATE
	The date the value is no longer available for use.		
5	UPDATE_TIMESTAMP	NOT NULL	DATE
	The date and time the value was last modified.		

Table: ESF_MINISTRY_CODE

Description:

An major organization unit within the provincial government.

Columns:

Seq.	Column	Nulls?	Type
* 1	ESF_MINISTRY_CODE Unique code to define a ministry	NOT NULL	VARCHAR2(10)
2	DESCRIPTION Name of the ministry.	NOT NULL	VARCHAR2(120)
3	EFFECTIVE_DATE The date the value is available for use.	NOT NULL	DATE
4	EXPIRY_DATE The date the value is no longer available for use.	NOT NULL	DATE
5	UPDATE_TIMESTAMP The date and time the value was last modified.	NOT NULL	DATE

Table: ESF_QUEUE_AGENT

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.

Columns:

Seq.	Column	Nulls?	Type
* 1	ESF_QUEUE_AGENT_ID A unique identifer for a queue agent.	NOT NULL	NUMBER(10)
2	AGENT_NAME Descriptive name of the agent. Should give some idea to an administrator as to the function of the agent.	NOT NULL	VARCHAR2(30)
3	DESCRIPTION An explanation of the purpose of the agent for display in the administration website.	NULL	VARCHAR2(255)
4	CONTACT_EMAIL_ID The SMTP address of the person to contact regarding the agent.	NULL	VARCHAR2(255)
5	LAST_PING_ATTEMPT The last date and time the ESF system attempted to contact the agent.	NULL	DATE
6	LAST_PING_SUCCESS The last date and time the ESF system successfully contacted the agent for a status or ping.	NULL	DATE
7	JMX_SERVICE_URL 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.	NULL	VARCHAR2(1000)
8	REVISION_COUNT Internal counter used by the system to avoid conflicting updates to the record.	NOT NULL	NUMBER(10)
9	ENTRY_USERID The userid of the person who created the record.	NOT NULL	VARCHAR2(30)
10	ENTRY_TIMESTAMP The date and time the record was created.	NOT NULL	DATE
11	UPDATE_USERID If the record was updated, the user id of the person who updated the record.	NOT NULL	VARCHAR2(30)
12	UPDATE_TIMESTAMP If the record has been updated, the date and time the update took place.	NOT NULL	DATE

Unique Constraints:

ESF_AGENT_ESF_AN_UK
AGENT_NAME

Table: ESF_SCHEMA_QUEUE_XREF

Description:

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

Columns:

	Seq.	Column	Nulls?	Type
*	10	XML_SCHEMA_ID A unique identifier to track a schema within the repository.	NOT NULL	NUMBER(10)
*	15	XML_SCHEMA_VERSION The version identifier for a specific version of a schema.	NOT NULL	NUMBER(10)
*	17	ESF_DISTRIBUTION_QUEUE_NAME The name of the queue that the message needs to be distributed to.	NOT NULL	VARCHAR2(50)
	20	XSLT_URL 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.*	NULL	VARCHAR2(255)

Foreign Keys:

ESQX_ESF_DQ_FK
ESF_DISTRIBUTION_QUEUE_NAME = ESF_DISTRIBUTION_QUEUE.ESF_DISTRIBUTION_QUEUE_NAME
ESQX_ESF_SV_FK
XML_SCHEMA_ID = XML_SCHEMA_VERSION.XML_SCHEMA_ID
XML_SCHEMA_VERSION = XML_SCHEMA_VERSION.XML_SCHEMA_VERSION

Indexes:

ESQX_ESF_DQ_FK_I
ESF_DISTRIBUTION_QUEUE_NAME
ESQX_ESF_SV_FK_I
XML_SCHEMA_ID
XML_SCHEMA_VERSION

Table: ESF_STATUS_CODE

Description:

A descrete subset of status codes that defines the status of a submission. (e.g received, in progress, accepted, rejected).

Columns:

Seq.	Column	Nulls?	Type
* 1	ESF_STATUS_CODE 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.	NOT NULL	VARCHAR2(3)
2	DESCRIPTION Full description of the code value.	NOT NULL	VARCHAR2(120)
3	EFFECTIVE_DATE The date the value is available for use.	NOT NULL	DATE
4	EXPIRY_DATE The date the value is no longer available for use.	NOT NULL	DATE
5	UPDATE_TIMESTAMP The date and time the value was last modified.	NOT NULL	DATE

Notes:

Values may be the following:

SUB >>> Submitted
PRO >>> In Progress
ACC >>> Accepted
REJ >>> Rejected
PTL >>> Partial

Table: ESF_SUBMISSION_AUDIT

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.

Columns:

Seq.	Column	Nulls?	Type
* 1	ESF_SUBMISSION_AUDIT_ID A unique identifer for the audit entry.	NOT NULL	NUMBER(10)
2	ESF_AUDIT_MESSAGE_ID A unique identifer for an audit message. *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.*	NOT NULL	NUMBER(10)
3	SUBMISSION_ID A unique identifier to track a submission.	NOT NULL	NUMBER(10)
4	AUDIT_SOURCE The source that has initiated the audit message. *This will hold values as to who generated the audit message such as Submission Borker or ESF Agent or FTA Agent.*	NOT NULL	VARCHAR2(100)
5	AUDIT_TIMESTAMP The date and time the audit entry was made.	NOT NULL	DATE
6	EXTENDED_AUDIT_INFO Information will be added to this field by the Agents to aid in the troubleshooting of a message processing failure. *The contents of this field may be information such as a Java stacktrace or other useful debugging information.*	NULL	VARCHAR2(4000)

Foreign Keys:

ESA_ESF_AM_FK
ESF_AUDIT_MESSAGE_ID = ESF_AUDIT_MESSAGE.ESF_AUDIT_MESSAGE_ID
ESA_ESF_SUB_FK
SUBMISSION_ID = ELECTRONIC_SUBMISSION.SUBMISSION_ID

Indexes:

ESA_ESF_AM_FK_I
ESF_AUDIT_MESSAGE_ID
ESA_ESF_SUB_FK_I
SUBMISSION_ID

Table: ESF_SUBMISSION_MESSAGE

Description:

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

Columns:

Seq.	Column	Nulls?	Type
* 1	ESF_SUBMISSION_MESSAGE_ID Unique ID for messages.	NOT NULL	NUMBER(10)
2	SUBMISSION_ID A unique identifier to track a submission.	NOT NULL	NUMBER(10)
3	MESSAGE_ORIGINATOR The individual (or possibly organization) that put the message in the queue.	NULL	VARCHAR2(50)
4	MESSAGE_CONTENT The content of the message. The message will be text based and may contain HTML.	NOT NULL	VARCHAR2(4000)
5	EXTERNAL_MESSAGE_CD This enables codes to be passed to the framework by the apporpriate 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. *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.*	NULL	VARCHAR2(10)
6	MESSAGE_TIMESTAMP The date and time the message was placed in the queue.	NOT NULL	DATE
7	FROM_EMAIL_ADDRESS The address to be used as the 'FROM' field in the ESF notification email. This will override the default ESF notification scheme. *An Agent may override the standard ESF notfication scheme by poroviding 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.*	NULL	VARCHAR2(255)

Foreign Keys:

ESF_SM_ESF_SUB_FK
SUBMISSION_ID = ELECTRONIC_SUBMISSION.SUBMISSION_ID

Indexes:

ESF_SM_ESF_SUB_FK_I
SUBMISSION_ID

Table: SUBMISSION_ATTACHMENT

Description:

Each submission may be augmented by additional information in a binary format such as Word DOC's, PDF's or images.

Columns:

Seq.	Column	Nulls?	Type
* 1	SUBMISSION_ATTACHMENT_ID A unique identifier to track a submission attachment.	NOT NULL	NUMBER(10)
2	SUBMISSION_ID A unique identifier to track a submission.	NOT NULL	NUMBER(10)
3	ATTACHMENT A binary formatted file used to augment the original XML submission.	NOT NULL	BLOB
4	ATTACHMENT_TYPE A textual well-known name used by the business area to identify the type of information in the attachment. These names will be defined by the business area and configured in ESF by the ESF Administrator.	NOT NULL	VARCHAR2(30)
5	USER_FILE_NAME The name of the file that the user uploaded.	NULL	VARCHAR2(50)
6	SUBMITTED_BY The USER ID of the person logged on when the submission was made.	NOT NULL	VARCHAR2(30)
7	SUBMITTER_GUID The Globally Unique ID of the User as assigned by the Active Directories.	NOT NULL	VARCHAR2(32)
8	SUBMITTER_NOTE A message by the submitter to add more contextual information about the attachment.	NULL	VARCHAR2(50)
9	ATTACHED_TIMESTAMP The date in which the attachment was uploaded to ESF.	NOT NULL	DATE

Foreign Keys:

SUBATT_ESF_SUB_FK
SUBMISSION_ID = ELECTRONIC_SUBMISSION.SUBMISSION_ID

Indexes:

SUBATT_ESF_SUB_FK_I
SUBMISSION_ID

Notes:

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.

Table: SUBMISSION_DOCUMENT

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.

Columns:

Seq.	Column	Nulls?	Type
1	SUBMISSION_DOCUMENT	NOT NULL	BLOB
	A copy of the original XML submission document made to ESF by the submitter. *This will need to be transformed to a BLOB in the physical model.*		
* 3	SUBMISSION_ID	NOT NULL	NUMBER(10)
	A unique identifier to track a submission.		

Foreign Keys:

SUBDOC_ESF_SUB_FK
SUBMISSION_ID = ELECTRONIC_SUBMISSION.SUBMISSION_ID

Indexes:

SUBDOC_ESF_SUB_FK_I
SUBMISSION_ID

Notes:

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

Table: XML_SCHEMA

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.

Columns:

Seq.	Column	Nulls?	Type
* 10	XML_SCHEMA_ID	NOT NULL	NUMBER(10)
	A unique identifier to track a schema within the repository.		
20	ESF_MINISTRY_CODE	NOT NULL	VARCHAR2(10)
	Unique code to define a ministry		
30	ESF_EMAIL_FREQUENCY_CODE	NOT NULL	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*		
40	SCHEMA_NAME	NOT NULL	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 recieve information on. Examples are Silviculture Standards Submission, Cutting Permit Application, Silvicuture Activities, Arch study, TRIM Watershed update etc.		
50	DISPLAY_NAME	NOT NULL	VARCHAR2(50)
	The well-known business name for a submission type that will be displayed to the clients.		
60	DESCRIPTION	NULL	VARCHAR2(255)
	A description of the schema suitable for display by an application.		
70	SCHEMA_NAMESPACE	NOT NULL	VARCHAR2(1000)
	A URL that uniquely identifies a specific schema.		
80	CURRENT_VERSION	NOT NULL	NUMBER(10)
	Defines the most current version for this schema.		
90	ORG_UNIT_CODE	NULL	VARCHAR2(255)
	The code of the organization that is responsible for this schema. *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.*		
100	CONTACT_NAME	NULL	VARCHAR2(255)
	The name of the person responsible for the schema.		
110	CONTACT_EMAIL_ID	NULL	VARCHAR2(255)
	The SMTP address of the person(s) responsible for the schema.		
120	SUBMISSION_ARCHIVE_IND	NOT NULL	VARCHAR2(1)
	An indicator as to whether the incoming submission file should be archived in the database. *Values can be 'Y' or 'N'.*		
130	SUBMISSION_ARCHIVE_DURATION	NULL	NUMBER(10)
	The number of days a submission should be archived for within the framework, should the "Archive Submission Indicator" be set to "Y". *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.*		
140	MAX_FILE_SIZE	NULL	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. *This may be NULL. The system default will be used if not specified.*		
150	ENABLED_IND	NOT NULL	VARCHAR2(1)
	Indicates whether this schema is temporarily disabled. This will ensure that all versions of the schema are also disabled.		
160	MAIL_TASK_ID	NULL	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.		
170	REVISION_COUNT	NOT NULL	NUMBER(10)
	Internal counter used by the system to avoid conflicting updates to the record.		

Table: XML_SCHEMA (cont'd)

Columns:

Seq.	Column	Nulls?	Type
180	ENTRY_USERID	NOT NULL	VARCHAR2(30)
	The userid of the person who created the record.		
190	ENTRY_TIMESTAMP	NOT NULL	DATE
	The date and time the record was created.		
200	UPDATE_USERID	NOT NULL	VARCHAR2(30)
	If the record was updated, the user id of the person who updated the record.		
210	UPDATE_TIMESTAMP	NOT NULL	DATE
	If the record has been updated, the date and time the update took place.		

Unique Constraints:

ESF_SC_ESF_SN_UK
SCHEMA_NAME

Foreign Keys:

ESF_SC_EFC_FK
ESF_EMAIL_FREQUENCY_CODE = ESF_EMAIL_FREQUENCY_CODE.ESF_EMAIL_FREQUENCY_CODE
ESF_SC_MIN_1_FK
ESF_MINISTRY_CODE = ESF_MINISTRY_CODE.ESF_MINISTRY_CODE

Indexes:

ESF_SC_EFC_FK_I
ESF_EMAIL_FREQUENCY_CODE
ESF_SC_MIN_1_FK_I
ESF_MINISTRY_CODE

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.

Table: XML_SCHEMA_VERSION

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).

Columns:

Seq.	Column	Nulls?	Type
* 10	XML_SCHEMA_ID	NOT NULL	NUMBER(10)
	A unique identifier to track a schema within the repository.		
* 20	XML_SCHEMA_VERSION	NOT NULL	NUMBER(10)
	The version identifier for a specific version of a schema.		
30	SCHEMA_URL	NOT NULL	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. *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.*		
50	SUBMISSION_SUMMARY_XSLT_URL	NULL	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. *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.* *We may want to store the actual XSLT within the database and have the system generate the file to the URL.*		
60	MORE_INFO_URL	NULL	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. *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.*		
70	SUPPORTED_IND	NOT NULL	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.		
80	VALIDATE_SPATIAL_IND	NOT NULL	VARCHAR2(1)
	Indicator of whether or not to perform validation on any spatial submissions using this schema version. *This value will either be a 'Y' or an 'N'.*		
90	MAP_TOOLS_IND	NOT NULL	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. *This value will either be a 'Y' or an 'N'.*		
100	SUBMISSION_ITEM_XSLT_URL	NULL	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.		
110	IMF_CONFIG_PARAMETERS	NULL	VARCHAR2(255)
	These are URL querysting 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. *e.g. siteconfig=mof_img_tms*		
120	SOE_LAYER_CONFIG_URL	NULL	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.		
130	ATTACHMENT_IND	NOT NULL	VARCHAR2(1)
	Indicates whether the schema version is to support attachments to be uploaded with the submission.		
140	ATTACHMENT_CONFIG_URL	NULL	VARCHAR2(255)
	The URL to the XML document that defines the types of attachments this schema version will accept.		
150	REVISION_COUNT	NOT NULL	NUMBER(10)
	Internal counter used by the system to avoid conflicting updates to the record.		
160	ENTRY_USERID	NOT NULL	VARCHAR2(30)
	The userid of the person who created the record.		
170	ENTRY_TIMESTAMP	NOT NULL	DATE
	The date and time the record was created.		
180	UPDATE_USERID	NOT NULL	VARCHAR2(30)

Table: XML_SCHEMA_VERSION (cont'd)

Columns:

Seq.	Column	Nulls?	Type
	If the record was updated, the user id of the person who updated the record.		
190	UPDATE_TIMESTAMP	NOT NULL	DATE
	If the record has been updated, the date and time the update took place.		
200	COORDINATE_SYSTEM_CODE	NULL	VARCHAR2(15)
	A code to represent the spatial referencing system to reproject incoming submissions to before doing the validations.		

Unique Constraints:

ESF_SV_ESF_SURL_UK
SCHEMA_URL

Foreign Keys:

ESF_SV_CSC_FK
COORDINATE_SYSTEM_CODE = COORDINATE_SYSTEM_CODE.COORDINATE_SYSTEM_CODE
ESF_SV_ESF_SC_FK
XML_SCHEMA_ID = XML_SCHEMA.XML_SCHEMA_ID

Indexes:

ESF_SV_CSC_FK_I
COORDINATE_SYSTEM_CODE
ESF_SV_ESF_SC_FK_I
XML_SCHEMA_ID