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EOSDIS Evolution and Development (EED) Contract

Release 8.1 Archive Inventory Management (AIM) Database Design and Schema Specifications for the EOSDIS Evolution and Development (EED) Contract

Revision 01

April 2012

Raytheon Company
Riverdale, Maryland

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Release 8.1 AIM Inventory Database Design and Schema Specifications for the EOSDIS Evolution and Development Contract

Revision 01

April 2012

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Preface

This document is a formal contract deliverable. It requires Government review and approval within 45 business days. Changes to this document will be made by document change notice (DCN) or by complete revision.

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Revision History

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This document describes the data design and database specification for the Archive Inventory Management subsystem. It is one of several documents comprising the detailed database design specifications for each of the EED subsystems.

The subsystem database design specifications for the as delivered system include:

311-EED-001, Rev. 01 — Release 8.1 INGEST (INS) Subsystem Database Design and Schema Specifications for the EOSDIS Evolution and Development (EED) Contract

311-EED-002, Rev. 01 — Release 8.1 Order Manager (OMS) Database Design and Schema Specifications for the EOSDIS Evolution and Development (EED) Contract

311-EED-003, Rev. 01 — Release 8.1 Spatial Subscription Server (SSS) Database Design and Schema Specifications for the EOSDIS Evolution and Development (EED) Contract

311-EED-004, Rev. 01 — Release 8.1 Data Pool Database (DPL) Design and Schema Specifications for the EOSDIS Evolution and Development (EED) Contract

Entity Relationship Diagrams (ERDs) presented in this document have been exported directly from tools and some cases contain too much detail to be easily readable within hard copy page constraints. The reader is encouraged to view these drawings on-line using the Portable Document Format (PDF) electronic copy available via the ECS Data Handling System (EDHS) on the world-wide web at http://edhs1.gsfc.nasa.gov.

Abstract

This document outlines Release 8.1 “as-built” database design and database schema of the AIM Inventory database including the physical layout of the database and initial installation parameters.

Keywords: data**,** database, design, configuration, database installation, scripts, security, data model, data dictionary, replication, performance tuning, SQL server, database security, replication, database scripts

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Appendix A. Science Data Server ERDs

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Abbreviations and Acronyms

1. Introduction

1.1 Identification

This AIM Inventory Database Design and Database Schema Specification document, Contract Data Requirement List (CDRL) Item 23, whose requirements are specified in under the Earth Observing System Data and Information System (EOSDIS) Evolution and Development (EED) Contract, Contract NNG10HP02C.

1.2 Scope

The AIM Inventory Database Design and Database Schema Specification document describes the data design and database specifications to support the data requirements of Release 8.1.

1.3 Purpose

The purpose of the AIM Inventory Database Design and Database Schema Specification document is to support the maintenance of AIM Inventory data and databases throughout the life cycle of ECS. This document communicates the database implementation in sufficient detail to support ongoing configuration management.

1.4 Audience

This document is intended to be used by ECS maintenance and operations staff. The document is organized as follows:

Section 1 provides information regarding the identification, scope, purpose and audience of this document.

Section 2 provides a listing of the related documents, which were used as a source of information for this document.

Section 3 contains the AIM Inventory data design which is the database tables, triggers, stored procedures, and flat file usage.

Section 4 provides a description of database performance and tuning features such as indexes, caches, and segments.

Section 5 provides a description of the database security infrastructure used and list of the users, groups, and permissions available upon initial installation.

Section 6 provides a description of database and database related scripts used for installation, de-installation, backup/recovery, and other miscellaneous functions.

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2. Related Documents

2.1 Applicable Documents

The following documents, including Internet links, are referenced in this document, or are directly applicable, or contain policies or other directive matters that are binding upon the content of this volume.

305-EED-001, Rev. 01	Release 8.1 Segment Design Specifications for the EOSDIS Evolution and Development (EED) Contract
920-TDN-009	DAAC Hardware Database Mapping/NSIDC
920-TDE-009	DAAC Hardware Database Mapping/EDC
920-TDL-009	DAAC Hardware Database Mapping/LARC
920-TDN-010	DAAC Database Configuration/NSIDC
920-TDE-010	DAAC Database Configuration/EDC
920-TDL-010	DAAC Database Configuration/LARC
920-TDN-011	DAAC Sybase Log Mapping/NSIDC
920-TDE-011	DAAC Sybase Log Mapping/EDC
920-TDL-011	DAAC Sybase Log Mapping/LARC
922-TDN-013	Disk Partitions/NSIDC
922-TDL-013	Disk Partitions/LARC

These documents are maintained as part of the EED baseline and available on the World Wide Web at the URL: http://cmdm.east.hitc.com/baseline. Please note that this is a partial mirror site in that some items are not available (they are identified) since this is OPEN to all. This site may also be reached through the EDHS homepage. Scroll page to the connections line and click on the EED Baseline Information System link.

2.2 Information Documents

The following documents, although not directly applicable, amplify or clarify the information presented in this document. These documents are not binding on this document.

609-EED-001, Rev. 01	Release 8.1 Operations Tools Manual for the EOSDIS Evolution and Development (EED) Contract
611-EED-001, Rev. 01	Release 8.1 Mission Operation Procedures for the EOSDIS Evolution and Development (EED) Contract

These documents are accessible via the EDHS homepage.

3. Data Design

3.1 Database Overview

The AIM Inventory database implements the large majority of the persistent data requirements for the AIM Inventory subsystem. The database is designed in such a manner as to satisfy business policy while maintaining data integrity and consistency. Database tables are implemented using the Sybase Relational Database Management system (DBMS). All components of the AIM Inventory database are described in the sections that follow in sufficient detail to support maintenance needs.

3.1.1 Physical Data Model Entity Relationship Diagram

The Entity Relationship Diagram (ERD) presents a schematic depiction of the AIM Inventory physical data model. The ERDs presented here for the AIM Inventory database were produced using the PowerDesigner Data Architect Computer Aided Software Engineering (CASE) tool. ERDs represent the relationship between entities or database tables. On ERDs, tables are represented as shown in Figure 3-1.

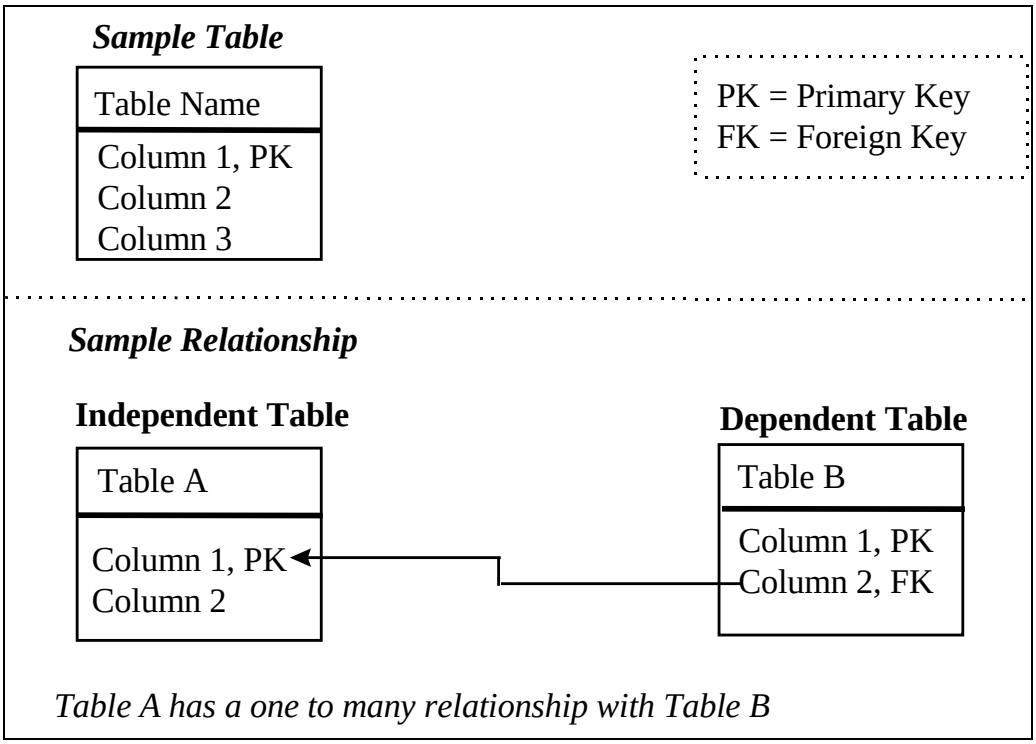

Figure 3-1. ERD Key

Data in the AIM Inventory database fall into categories:

1. Metadata (Md) – information used to describe the contents of Earth Science Data Collections housed in the AIM Inventory. Including:
2. Delivered Algorithm Package metadata – descriptive information about the science algorithm software components used to generate or produce the contents of an Earth Science Data Collection.
3. Collection metadata – information describing all data elements comprising an Earth Science Data Collection.
4. Granule metadata – information describing a select data element in an Earth Science Data Collection.
5. Spatial metadata – information describing the locations pertinent to an Earth Science Data Collection and/or comprising data elements.
6. Temporal metadata – information describing the time periods pertinent to an Earth Science Data Collection and/or comprising data elements.
7. SQS Data – Information used by the Spatial Query Server COTS product to provide spatial query functionality.
8. System Management Data – Information used by the AIM Inventory to manage its functionality and operations.

ERDs for each of these data categories are found in Appendix A.

The AIM Data Dictionary containing Tables, Table Columns, and Table Descriptions are found in Appendix B.

4. Performance and Tuning Factors

4.1 Indexes

An index provides a means of locating a row in a database table based on the value of a specific column(s), without having to scan all data in the table. When properly implemented, indexes can significantly decrease the time it takes to retrieve data, thereby increasing performance. Sybase allows the definition of two types of indexes, clustered and non-clustered.

In a clustered index, the rows in a database table are physically stored in sequence-determined by the index. Clustered indexes are particularly useful, when the data is frequently retrieved in sequential order. Only one clustered index may be defined per table.

Non-clustered indexes differ from their clustered counterpart, in that, data is not physically stored in sorted order—newly added rows are stored at the end of the related database table.

A key of the types of indexes found in the AIM Inventory database is provided in Table 4-1 Index Type Key. A list a description of each of the defined indexes is given in Table 4-2 Index List.

Table 4-1. Index Type Key

Index Type Key	Description
PK	Primary Key
FK	Foreign Key
U	Unique - Only one for the column code combination
C	Clustered or non-clustered index

Table 4-2. Index List (1 of 4)

Table Name	Index Name	PK	U	C
ApplicationLocks	PK_APPLICATIONLOCKS	Yes	Yes	Yes
DsDeDictionaryAttribute	PK_DSDEDICTIONARYATTRIBUTE	Yes	Yes	Yes
DsDeDictionaryAttribute	xDsDeDictionaryAttribute	No	Yes	No
DsDeDictionaryContent	PK_DSDEDICTIONARYCONTENT	Yes	Yes	Yes
DsDeDictionaryContent	xDsDeDictionaryContent	No	Yes	No
DsDeDictionaryRule	PK_DSDBDICTIONARYRULE	Yes	Yes	Yes
DsDeECSKeywordValids	PK_DSDEECSKEYWORDVALIDS	Yes	Yes	Yes
DsGeESDTConfiguredType	PK_DSGEESDTCONFIGUREDTYPE	Yes	Yes	Yes
DsMdAcvuTmp	idx_acvutmpstatus	No	No	No
DsMdAcvuTmp	pk_acvutmp	Yes	Yes	Yes
DsMdAdditionalAttributes	PK_DSMDADDITIONALATTRIBUTES	Yes	Yes	Yes
DsMdAdditionalAttributes	xDsMdAdditionalAttributes	No	Yes	No
DsMdBmgtAuditStats	pk_AuditStats	Yes	Yes	Yes
DsMdBmgtBBR	pk_bbrcycleiddbid	Yes	Yes	Yes
DsMdBmgtConfig	DsMdBmgtConfig	No	No	No
DsMdBmgtConfig	pk_bmgtconfig	Yes	Yes	No
DsMdBmgtCycleEvents	DsMdBmgtCycleEvents	No	No	No
DsMdBmgtCycleEvents	idx_cycleeventsdbid	No	No	No
DsMdBmgtCycleEvents	pk_cycleeventsclustered	Yes	Yes	No
DsMdBmgtCycleQAEvents	pk_qaeventciddbidtimepname	Yes	Yes	Yes
DsMdBmgtEchoErrorPolicy	pk_bmgtechoerrorpolicy	Yes	Yes	Yes
DsMdBmgtGroupConfig	pk_groupconfigsnamevid	Yes	Yes	Yes
DsMdBmgtIngestRptStats	pk_IngestRptStats	Yes	Yes	Yes
DsMdBmgtLock	pk_lock	Yes	Yes	Yes
DsMdBmgtMETG	pk_metgciddbideventtype	Yes	Yes	Yes
DsMdBmgtPkgCycles	DsMdBmgtPkgCycles	No	No	No
DsMdBmgtPkgCycles	idx_cyclecurrentexportstatus	No	No	No
DsMdBmgtPkgCycles	idx_cyclepackageid	No	No	No
DsMdBmgtPkgCycles	pk_bmgtcycles	Yes	Yes	No
DsMdBmgtReExportQueue	idx_reexportqueueciddbid	No	No	No
DsMdBmgtReExportQueue	idx_reexportqueuecidsnvi	No	No	No
DsMdBmgtReExportQueue	pk_reexportqueue	Yes	Yes	Yes
DsMdBmgtWrkCollections	pk_wrkcollectioncidsnamevid	Yes	Yes	Yes
DsMdBmgtWrkGranules	pk_wrkgrancycleiddbid	Yes	Yes	Yes
DsMdBmgtWrkGroups	pk_wrkgroupcidgnamsnvid	Yes	Yes	Yes
DsMdBrowse	PK_DSMDBROWSE	Yes	Yes	Yes
DsMdBrowse	xDsMdBrowseDate	No	No	No
DsMdBrowse	xDsMdBrowseinsertTimedbID	No	No	No
DsMdBrowseFileStorage	PK_DSMDBROWSEFILESTORAGE	Yes	Yes	Yes
DsMdBrowseFileStorage	xDsMdBrowseFileStorage	No	No	No
DsMdBrowseGranuleXref	DsMdBrowseGranuleXref	No	No	No
DsMdBrowseGranuleXref	PK_DSMDBROWSEGRANULEXREF	Yes	Yes	No
DsMdBrowseGranuleXref	xDsMdBrowseGranuleXref	No	No	No
DsMdBrowseLock	PK_DSMDBROWSSCIENCELOCK	Yes	Yes	Yes
DsMdChecksumOrigins	PK_DSMDCHECKSUMORIGINS	Yes	Yes	Yes
DsMdChecksumTypes	PK_DSMDCHECKSUMTYPES	Yes	Yes	Yes

Table 4-2. Index List (2 of 4)

Table Name	Index Name	PK	U	C
DsMdCollectionAddnlAttribsXref	PK_DSMDCOLLECTIONADDNLATTRIBSX	Yes	Yes	Yes
DsMdCollectionAddnlAttribsXref	xDsMdCollectionAddnlAttribsXrf	No	No	No
DsMdCollections	PK_DSMDCOLLECTIONS	Yes	Yes	Yes
DsMdCollections	xDsMdCollectionsSnVid	No	Yes	No
DsMdCollections	xDsMdCollectionssubType	No	Yes	No
DsMdDAP	PK_DSMDDAP	Yes	Yes	Yes
DsMdDAP	xDsMdDAPDEDate	No	No	No
DsMdDAPFileStorage	PK_DSMDDAPFILESTORAGE	Yes	Yes	Yes
DsMdDAPFileStorage	xDsMdDAPFileStorage	No	No	No
DsMdDAR	PK_DSMDDAR	Yes	Yes	Yes
DsMdDeletedGranules	PK_DSMDDELETEDGRANULES	Yes	Yes	Yes
DsMdDeletedGranules	xDsMdDeletedGranulesSNmVid	No	No	No
DsMdDeletedGranules	xDsMdDeletedGranulestTime	No	No	No
DsMdFileStorage	DsMdFileStorage	No	No	No
DsMdFileStorage	PK_DSMDFILESTORAGE	Yes	Yes	No
DsMdFileStorage	xDsMdFileStorageUserDataFile	No	No	No
DsMdFileStorage	xDsMdFileStorageintFileName	No	No	No
DsMdGeometryGPolygonContainer	DsMdGeometryGPolygonCont_ind1	No	Yes	Yes
DsMdGeometryValidation	PK_DSMDGEOMETRYVALIDATION	Yes	Yes	No
DsMdGeometryValidation	xDsMdGeometryValidation	No	No	Yes
DsMdGrBoundingRectangle	PK_DSMDGRBOUNDINGRECTANGLE	Yes	Yes	No
DsMdGrBoundingRectangle	xDsMdGrBoundingRectangle	No	Yes	Yes
DsMdGrCircle	PK_DSMDGRCIRCLE	Yes	Yes	No
DsMdGrCircle	xDsMdGrCircle	No	Yes	Yes
DsMdGrEventDomain	PK_DSMDGREVENTDOMAIN	Yes	Yes	Yes
DsMdGrEventHistory	DsMdGrEventHistory	No	No	No
DsMdGrEventHistory	pk_evthistory	Yes	Yes	No
DsMdGrEventHistory	xDsMdGrEventHistoryDBID	No	No	No
DsMdGrEventHistory	xDsMdGrEventHistoryIdTime	No	No	No
DsMdGrEventHistory	xDsMdGrEventHistoryTimeIdDBID	No	No	No
DsMdGrGPolygGPolygonContainer	DsMdGrGPolygGPolygonCont_ind1	No	Yes	Yes
DsMdGrGPolygon	PK_DSMDGRGPOLYGON	Yes	Yes	No
DsMdGrGPolygon	xDsMdGrPolygon	No	Yes	Yes
DsMdGrParamUpdHistory	xDsMdGrParamUpdHistory	No	No	Yes
DsMdGrParamUpdHistory	xDsMdGrParamUpdHistoryunique	No	Yes	No
DsMdGrPoint	PK_DSMDGRPOINT	Yes	Yes	No
DsMdGrPoint	xDsMdGrPoint	No	Yes	Yes
DsMdGranules	PK_DSMDGRANULES	Yes	Yes	No
DsMdGranules	xDsMdGranulesDate	No	No	No
DsMdGranules	xDsMdGranulesInsertTime	No	No	No
DsMdGranules	xDsMdGranulesLGID	No	No	No
DsMdGranules	xDsMdGranulesPHID	No	No	No
DsMdGranules	xDsMdGranulesSNmVidET	No	No	Yes
DsMdIdentifier	PK_DSMDIDENTIFIER	Yes	Yes	Yes
DsMdMisrAttributes	idx_misrorbitno	No	No	No
DsMdMisrAttributes	pk_misrattributes	Yes	Yes	Yes
DsMdMisrBrowseGranuleXref	idx_misrbrowsegranxrefbid	No	No	No

Table 4-2. Index List (3 of 4)

Table Name	Index Name	PK	U	C
DsMdMisrBrowseGranuleXref	pk_misrbrowsegranxref	Yes	Yes	Yes
DsMdMisrCamera	pk_misrcamera	Yes	Yes	Yes
DsMdMisrMutex	pk_misrmutaxlock	Yes	Yes	Yes
DsMdMisrProcessingCriteria	pk_misrprocesscriteria	Yes	Yes	Yes
DsMdNextAvailableID	pk_nextid	Yes	Yes	Yes
DsMdOrbitCalculatedSpatial	PK_DSMDORBITCALCULATEDSPATIAL	Yes	Yes	No
DsMdOrbitCalculatedSpatial	xDsMdOrbitCalculatedSpatial	No	No	Yes
DsMdOrbitPolygons	PK_DSMDORBITPOLYGONS	Yes	Yes	No
DsMdOrbitPolygons	xDsMdOrbitPolygons	No	Yes	Yes
DsMdOrbitPolygons__Orbit	DsMdOrbitPolygons__Orbit_ind1	No	Yes	Yes
DsMdPGEGroup	PK_DSMDPGEGROUP	Yes	Yes	Yes
DsMdPendingDeleteXMLFile	PK_DSMDPENDINGDELETEXMLFILE	Yes	Yes	Yes
DsMdPlatInstrCode	PK_DSMDPLATINSTRCODE	Yes	Yes	Yes
DsMdProcessHistFileStorage	PK_DSMDPROCESSHISTFILESTORAGE	Yes	Yes	Yes
DsMdProcessHistFileStorage	xDsMdProcessHistFileStorage	No	No	No
DsMdProcessingHistory	PK_DSMDPROCESSINGHISTORY	Yes	Yes	Yes
DsMdProcessingHistory	xDsMdProcessingHistoryDate	No	No	No
DsMdQaGranule	PK_DSMDQAGRANULE	Yes	Yes	Yes
DsMdQaGranule	xDsMdGranuleDate	No	No	No
DsMdQaGranuleFileStorage	PK_DSMDQAGRANULEFILESTORAGE	Yes	Yes	Yes
DsMdQaGranuleFileStorage	xDsMdQaGranuleFileStorage	No	No	No
DsMdQaGranuleXref	PK_DSMDQAGRANULEXREF	Yes	Yes	Yes
DsMdQaGranuleXref	xDsMdQaGranuleXref	No	No	No
DsMdScienceLock	PK_DSMDSCIENCELOCK	Yes	Yes	Yes
DsMdStagingTable	xDsMdStagingTableIFN	No	Yes	Yes
DsMdStagingTable	xDsMdStagingTableSnm	No	No	No
DsMdUnDeletedGranules	PK_DSMDUNDELETEDGRANULES	Yes	Yes	Yes
DsMdUnDeletedGranules	xDsMdDeletedGranulestTime	No	No	No
DsMdXMLFile	PK_DSMDXMLFILE	Yes	Yes	Yes
DsMdXMLFile	xDsMdXMLFilePathId	No	No	No
DsMdXMLPath	AK_DSMDXMLPATH	No	Yes	No
DsMdXMLPath	PK_DSMDXMLPATH	Yes	Yes	Yes
DsMgBulkData	PK_DSMGBULKDATA	Yes	Yes	Yes
DsMgBulkData	xDsMgBulkDataProcessIdIdx	No	No	No
DsMgError	pk_mgerror	Yes	Yes	Yes
DsMgFilePath	pk_mgfilepath	Yes	Yes	Yes
DsMgFilePath	xDsMgFilePathPathIdx	No	No	No
DsMgFileState	pk_mgfilestate	Yes	Yes	Yes
DsMgFileState	xDsMgFileStateFileNameIdx	No	No	No
DsMgFileState	xDsMgFileStateMgFlagIdx	No	No	No
DsMgFileState	xDsMgFileStateStateIdx	No	No	No
DsMgGranuleState	pk_mggranulestate	Yes	Yes	Yes
DsMgGranuleState	xDsMgGranuleStateInsFlagIdx	No	No	No
DsMgGranuleState	xDsMgGranuleStateStateIdx	No	No	No
DsMgMediaState	pk_mgmediastate	Yes	Yes	Yes
DsMgMediaState	xDsMgMediaStateMgDrvPoolIdx	No	No	No

Table 4-2. Index List (4 of 4)

Table Name	Index Name	PK	U	C
DsMgMediaState	xDsMgMediaStateStateIdx	No	No	No
DsMgStatistic	pk_mgstatistic	Yes	Yes	Yes
DsQAMUTESDTSite	PK_DSQAMUTESDTSITE	Yes	Yes	Yes
DsQAMUTFatalErrors	DsQAMUTFatalErrors	No	No	No
DsQAMUTParameterNames	xDsQAMUTParameterNames	No	Yes	Yes
DsQAMUTRequestDetail	xDsQAMUTReqDetaildbid	No	No	No
DsQAMUTRequestDetail	xDsQAMUTRequestDetail	No	Yes	Yes
DsQAMUTRequestDetailTmp	xDsQAMUTRequestDetailTmp	No	Yes	Yes
DsQAMUTRequest_ESDT	xDsQAMUTRequestESDT	No	Yes	Yes
DsQAMUTRequest_GranuleUR	xDsQAMUTRequestUR	No	Yes	Yes
DsQAMUTRequest_LGID	xDsQAMUTRequestLGID	No	Yes	Yes
DsStPendingDelete	PK_DSSTPENDINGDELETE	Yes	Yes	Yes
DsStPendingDelete	sk_dsstpdstage	No	No	No
DsStVolumeGroup	PK_DSSTVOLUMEGROUP	Yes	Yes	Yes
EMSArch	extract_idx3	No	No	Yes
EMSArchData	extract_idx2	No	No	Yes
EMSArchUpdData	extract_idx	No	No	Yes
EMSShortNameTemp	EMSShortNameTemp	No	No	No
EMSdbid	EMSdbid_idx	No	No	Yes
EcDbDatabaseVersions	PK_ECDBVERSIONS	Yes	Yes	Yes
Mutex	PK_MUTEX	Yes	Yes	Yes

4.2 Segments

Sybase supports the declaration of segments. A segment is a named pointer to a storage device(s). Segments are used to physically allocate a database object to a particular storage device. Segments defined for the AIM Inventory and all other subsystem databases are described in Table 4-3.

Table 4-3. Segment Descriptions

Segment	Description
default	Default data segment used if no other segment specified in the create statement.
logsegment	SYSLOGS, Transaction Logs
systemsegment	System tables and indexes.

4.3 Caches

A cache is a block of memory that is used by Sybase to retain and manage pages that are currently being processed. By default, each database contains three caches:

Data cache – retains most recently accessed data and index pages

Procedure cache – retains most recently accessed stored procedure pages

User transaction log cache – transaction log pages that have not yet been written to disk for each user

The size of each of these default caches is a configurable item which must be managed on a per DAAC basis. These caches may be increased or decreased by the DAAC DBA as needed.

The data cache can be further subdivided into named caches. A named cache is a block of memory that is named and used by the DBMS to store data pages for select tables and/or indexes. Assigning a database table to a named cache causes accessed pages to be loaded into memory and retained. The named cache does not need to be allocated to accommodate the entire database table since the DBMS manages the cache according to use. Named caches greatly increase performance by eliminating the time associated for disk input and output (I/O). There are no named caches that are currently defined for the AIM Inventory database. Named caches may be defined as the memory usage of the AIM Inventory database becomes more well-known. As named caches are defined this portion of the document will be updated.

5. Database Security

5.1 Initial Users

The database security discussed within this section is bounded to the security implementation within the Sybase SQL Server DBMS. A Sybase general approach to security is adopted as illustrated in Figure 5-1.

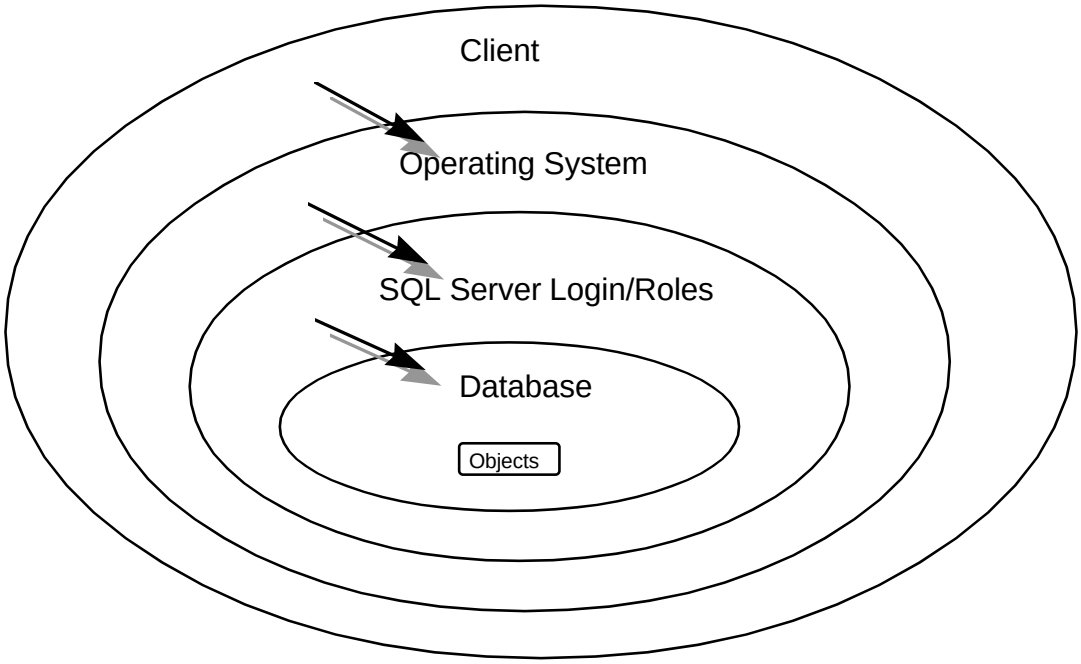

Figure 5-1. Sybase General Approach to SQL Server Security[1]

The client (user) requires a SQL Server login to access the DBMS. The login is assigned to a user with certain related permissions for gaining access to particular objects (e.g., database tables, views, commands) within the database. The System Administrator may grant or revoke objects permissions for a login individually or based on defined groups or roles.

Groups are a means of logically associating users with similar data access needs. Once a group has been defined, object and command permissions can be granted to that group. A user who is a member of a group inherits all of the permissions granted to that group. The DAACs should define database groups to support the database security requirements of their individual DAACs.

[1] Reference Sybase Student Guide: *Advanced SQL Server Administration*.

Security for local DAAC users should be controlled by assigning each user to the appropriate group.

Roles were introduced in Sybase to allow a structured means for granting users the permissions needed to perform standard database administration activities and also provide a means for easily identifying such users. There are six pre-defined roles that may be assigned to a user. A definition of each of these roles follows, as well as a description of the types of activities that may be performed by each role.

System Administrator (*sa_role*): This role is used to grant a specific user permissions needed to perform standard system administrator duties including:

- installing SQL server and specific SQL server modules
- managing the allocation of physical storage
- tuning configuration parameters
- creating databases

Site Security Officer (*sso_role*): This role is used to grant a specific user the permissions needed to maintain SQL server security including:

- adding server logins
- administrating passwords
- managing the audit system
- granting users all roles except the *sa_role*

Operator (*oper_role*): This role is used to grant a specific user the permissions needed to perform standard functions for the database including:

- dumping transactions and databases
- loading transactions and databases

Navigator (*navigator_role*): This role is used to grant a specific user the permissions needed to manage the navigation server.

Replication (*replication_role*): This role is used to grant a specific user the permissions needed to manage the replication server.

Sybase Technical Support (sybase_ts_role): This role is used to grant a specific user the permissions needed to execute database consistency checker (dbcc), a Sybase supplied utility supporting commands that are normally outside of the realm of routine system administrator activities.

The DAACs should review these roles and assign them to the appropriate login and/or groups.

6. Scripts

Sub-directories that support the creation of the AIM Inventory database are found in the ClearCase /ecs/formal/DSS/AIM/database directory. The directories have the following structure:

procs	=	stored procedures
sql	=	table and initial data definitions
triggers	=	trigger definitions
data	=	important schema data inputs
views	=	view definitions
scripts	=	build, migration, and other scripts
patches	=	database patches

6.1 Installation Scripts

Scripts used to support installation of the AIM Inventory database are listed in Table 6-1. These scripts are found in the directory /ecs/formal/DSS/AIM/database/scripts.

Table 6-1. Installation Scripts

Script File	Description
EcDsAmDbBuild	Create a new initialized AIM Inventory database.
EcDsAmDbPatch	Upgrade an existing AIM Inventory database to the next valid database version level.
EcDsAmDbUser	Create AIM Inventory related database users
EcDsAmDbLogin	Create AIM Inventory related server logins

6.2 Miscellaneous Scripts

Miscellaneous scripts applicable to the AIM Inventory Subsystem database are listed in Table 6-2.

Table 6-2. Miscellaneous Scripts

Script	Description
EcDsAmDbUpdStatCmd.ksh	Installs the 'update statistics' commands for the AIM Inventory database into the dba database.
EcDsAmDbPatch	Apply patch to the AIM Inventory database.
EcDsAmDbMigration.pl	Migrates the SDSRV database to the AIM Inventory database.
EcDsAmDbMigration_prerun.ksh	Drops AIM Inventory database indices prior to migration.
EcDsAmDbMigration_postrun1.ksh	Adds AIM Inventory database indices after migration.
EcDsAmDbMigration_postrun2.ksh	Adds AIM Inventory database indices after migration.

Appendix A. Entity Relationship Diagrams

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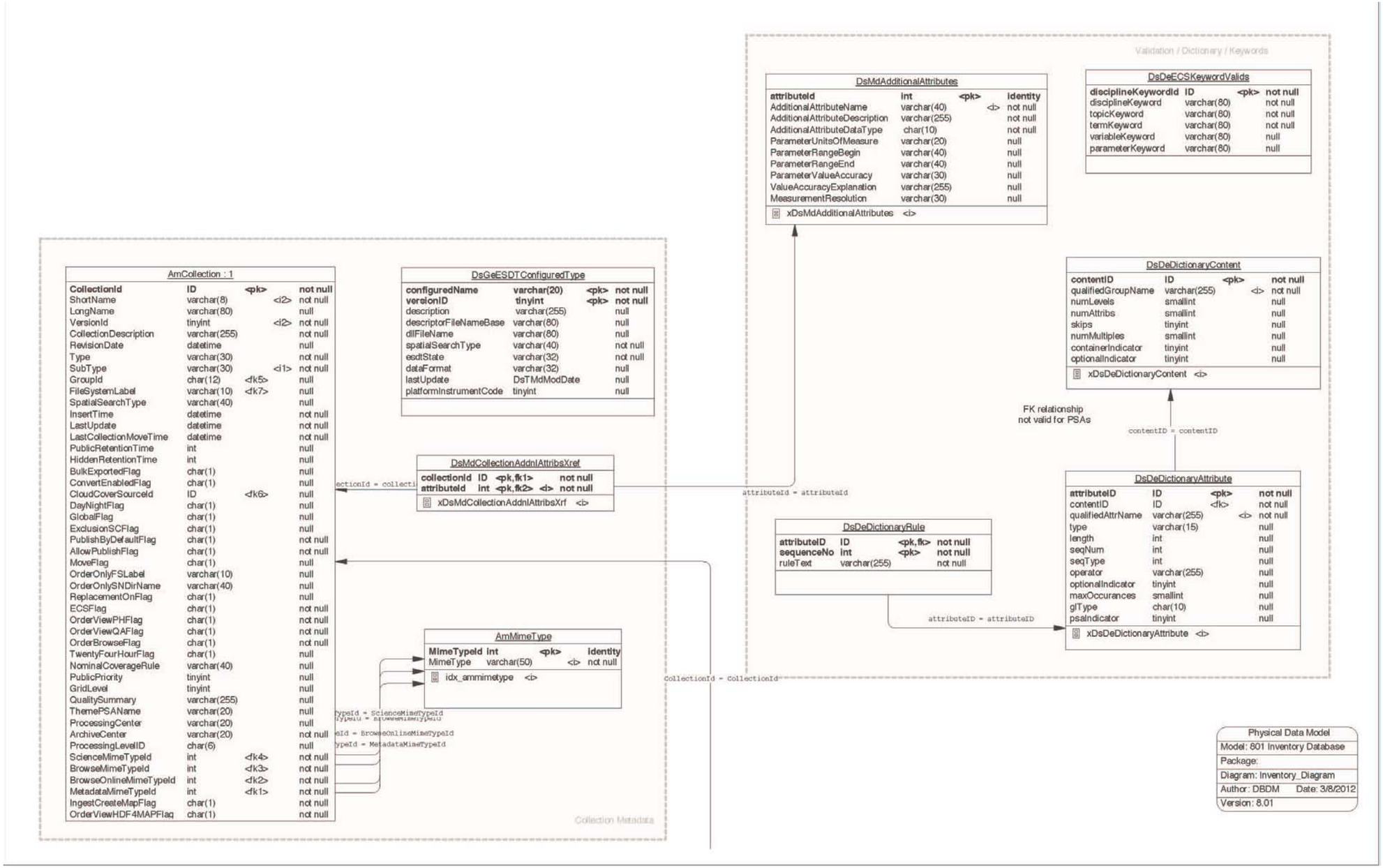


Figure A-1. EcInDb Entity Relationship Diagram (1 of 11)

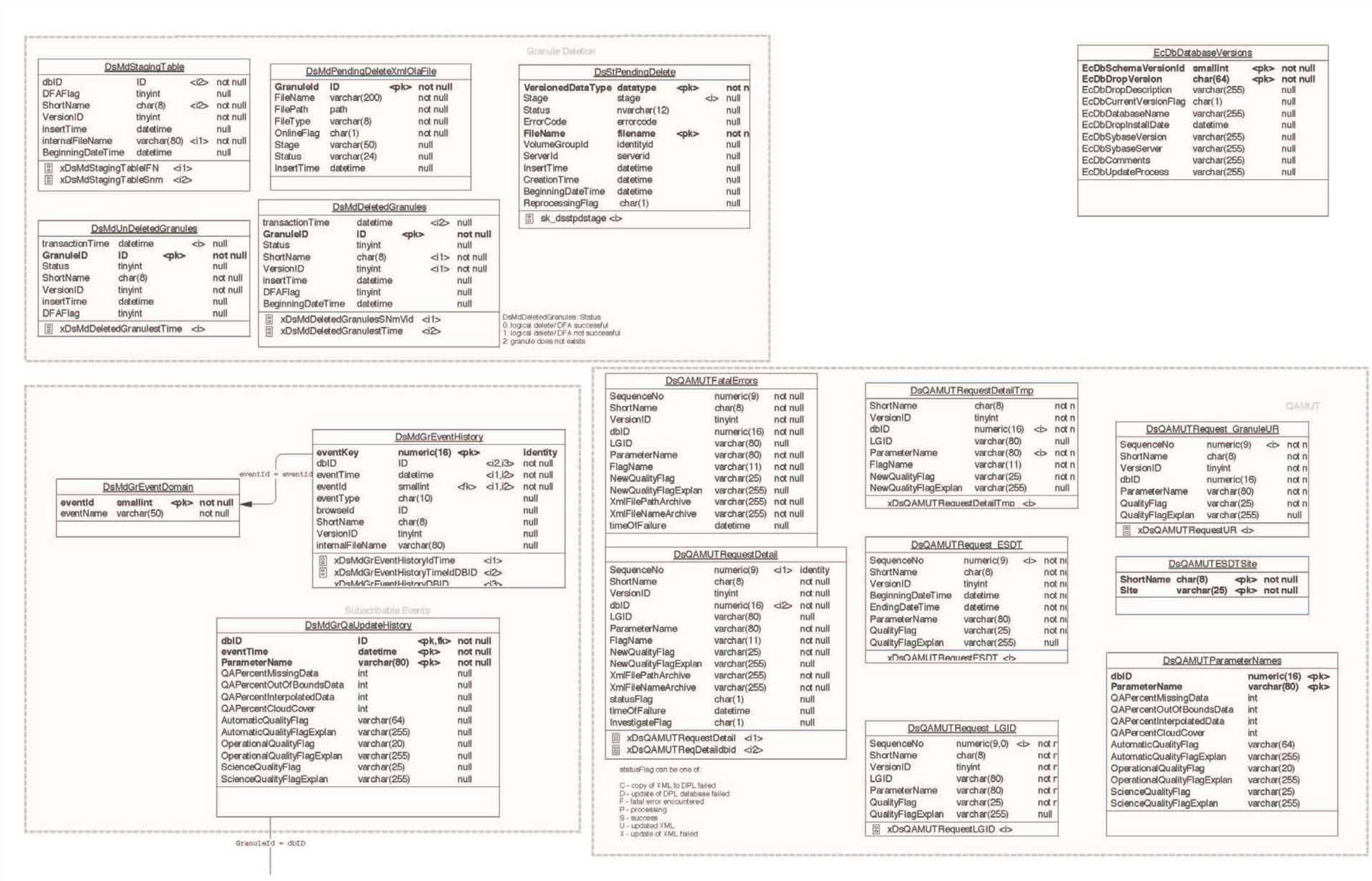


Figure A-1. EcInDb Entity Relationship Diagram (2 of 11)

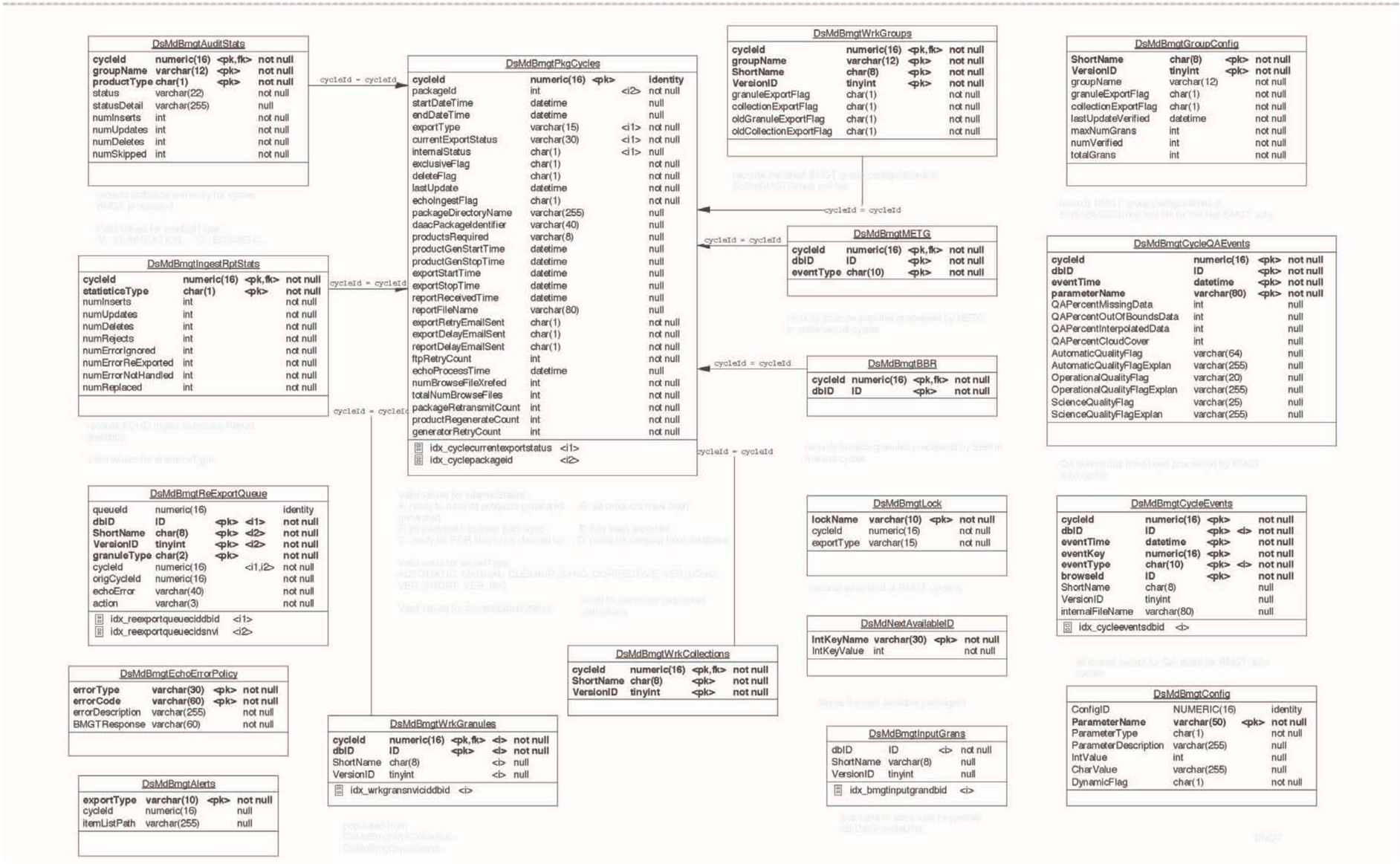


Figure A-1. EcInDb Entity Relationship Diagram (3 of 11)

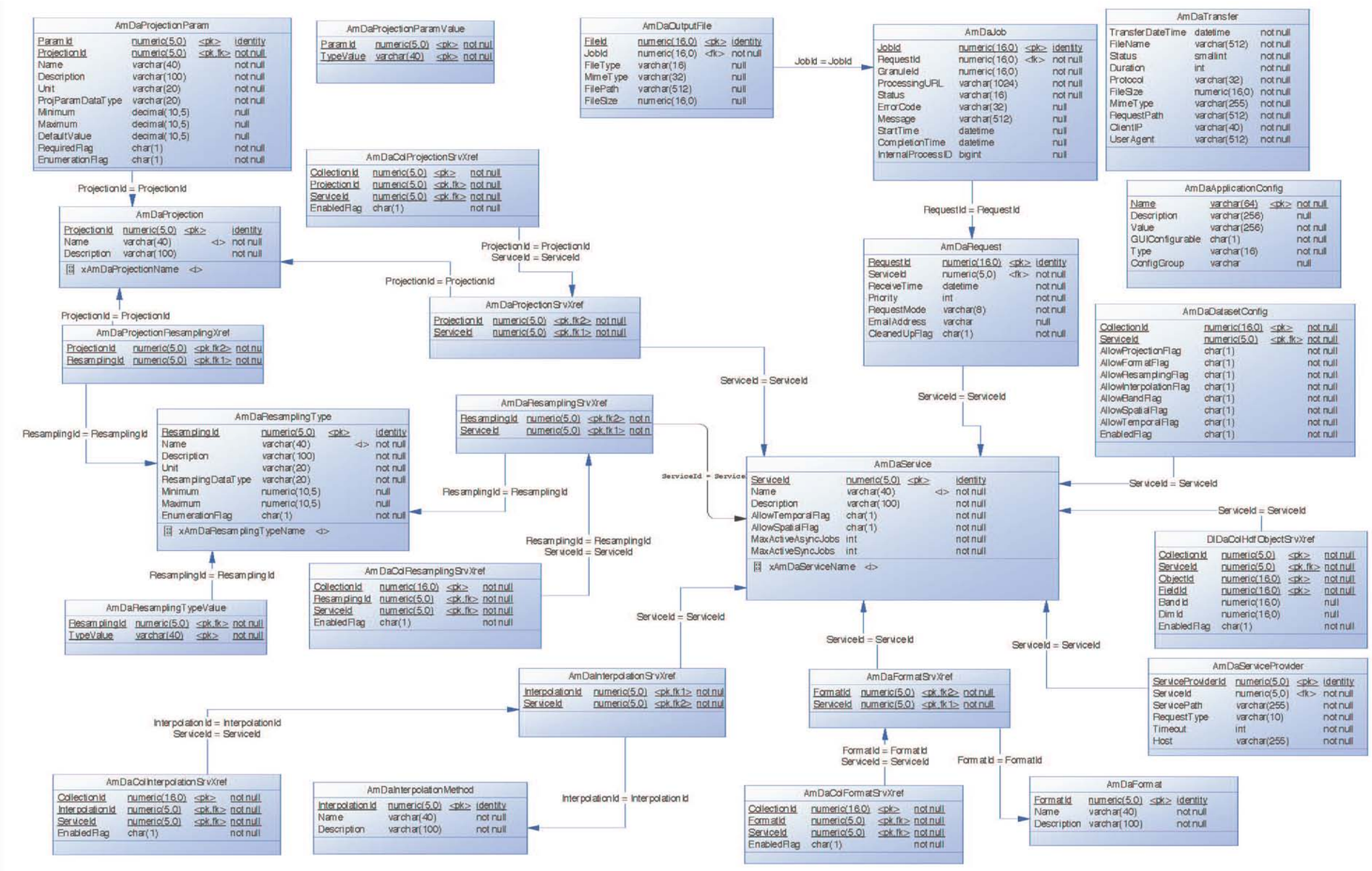


Figure A-1. EcInDb Entity Relationship Diagram (4 of 11)

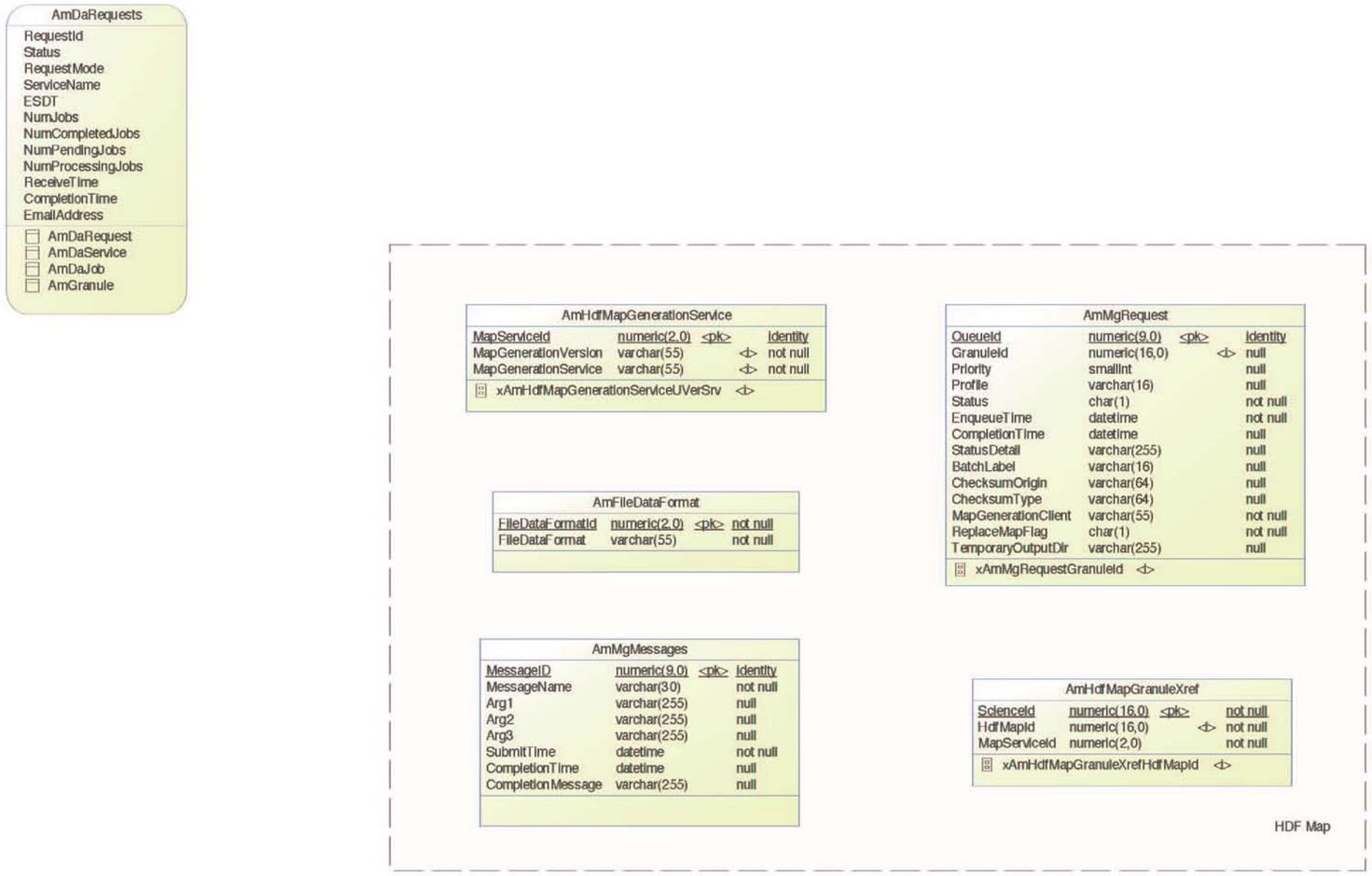


Figure A-1. EcInDb Entity Relationship Diagram (5 of 11)

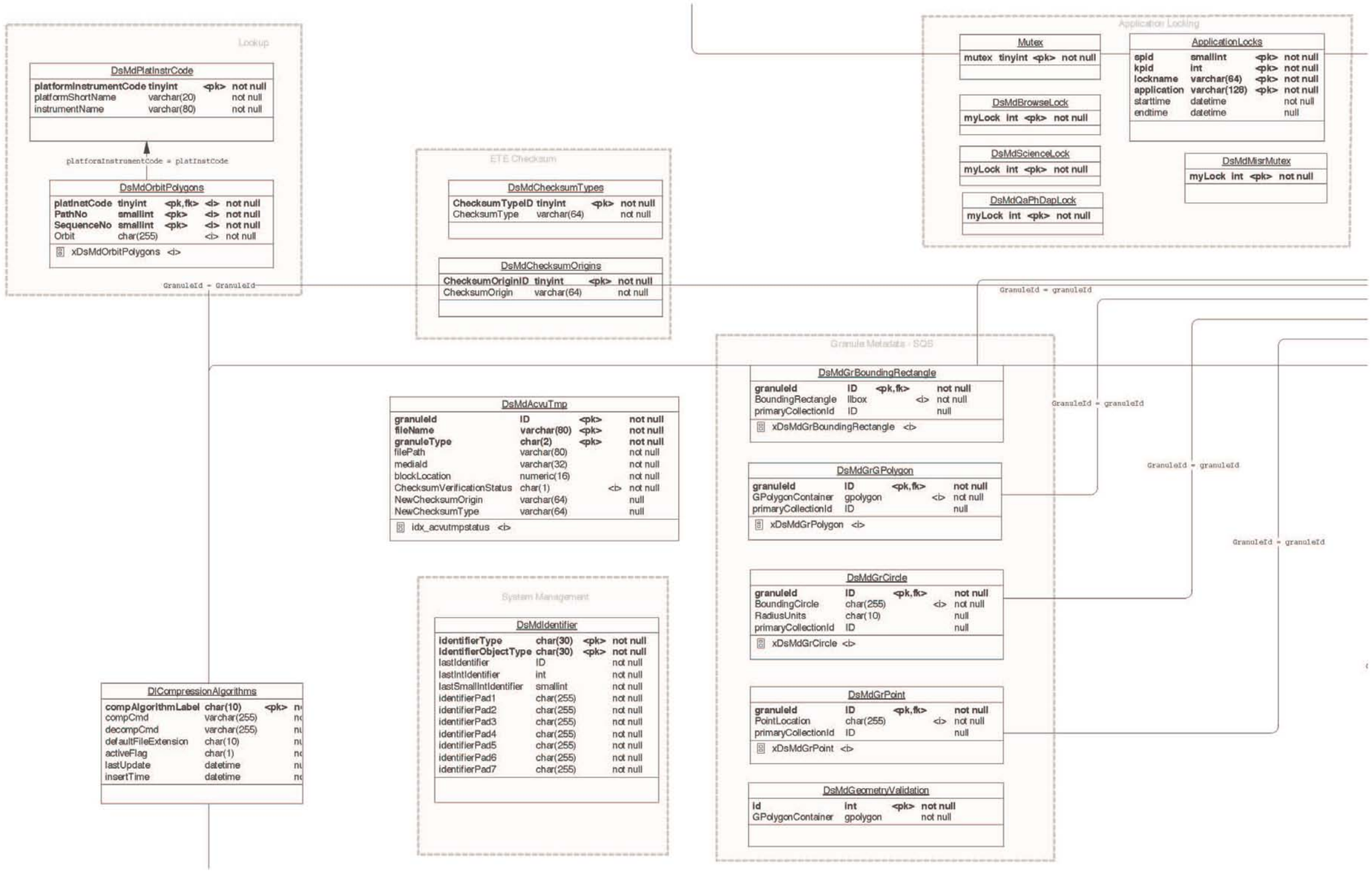


Figure A-1. EcInDb Entity Relationship Diagram (6 of 11)

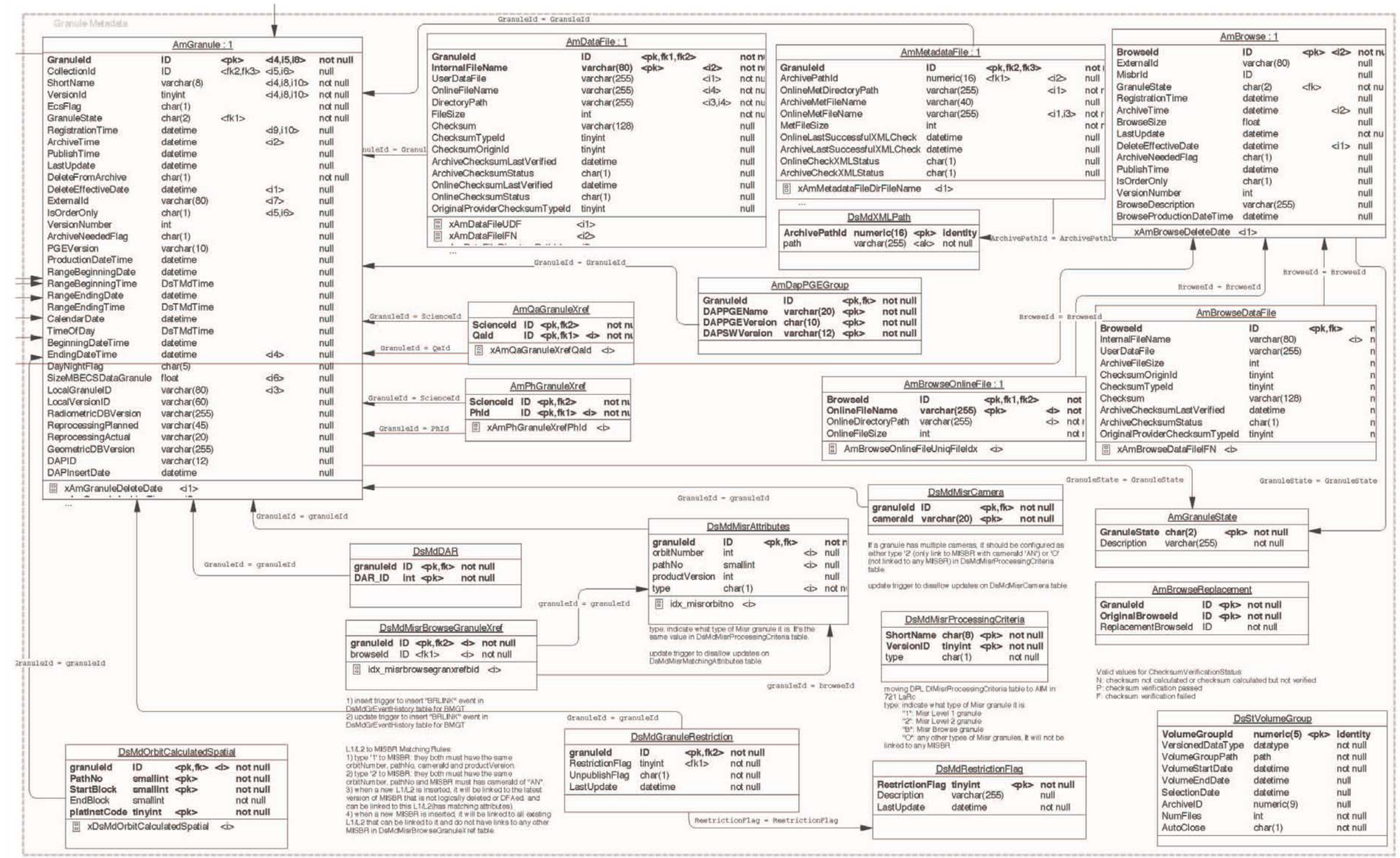


Figure A-1. EcInDb Entity Relationship Diagram (7 of 11)

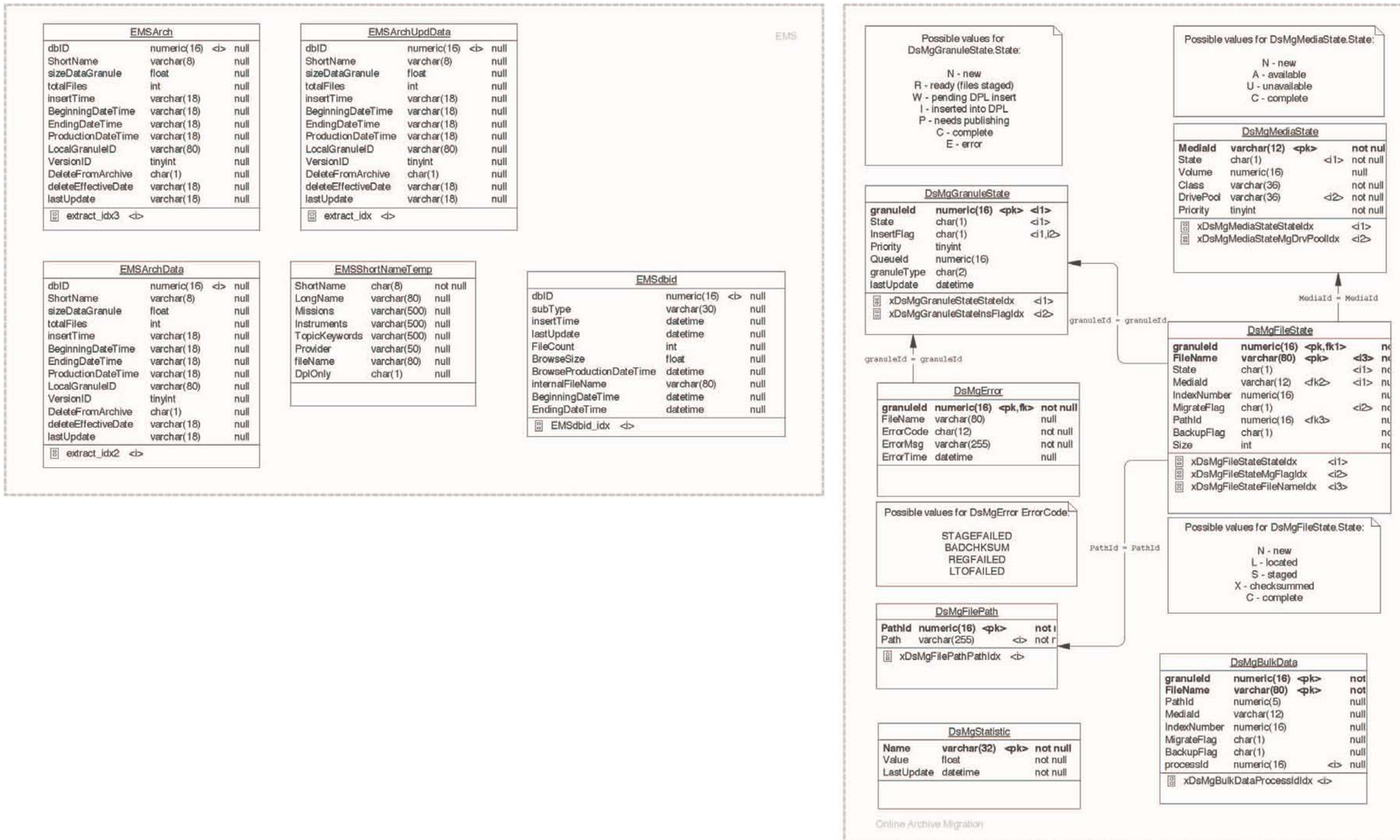


Figure A-1. EcInDb Entity Relationship Diagram (8 of 11)

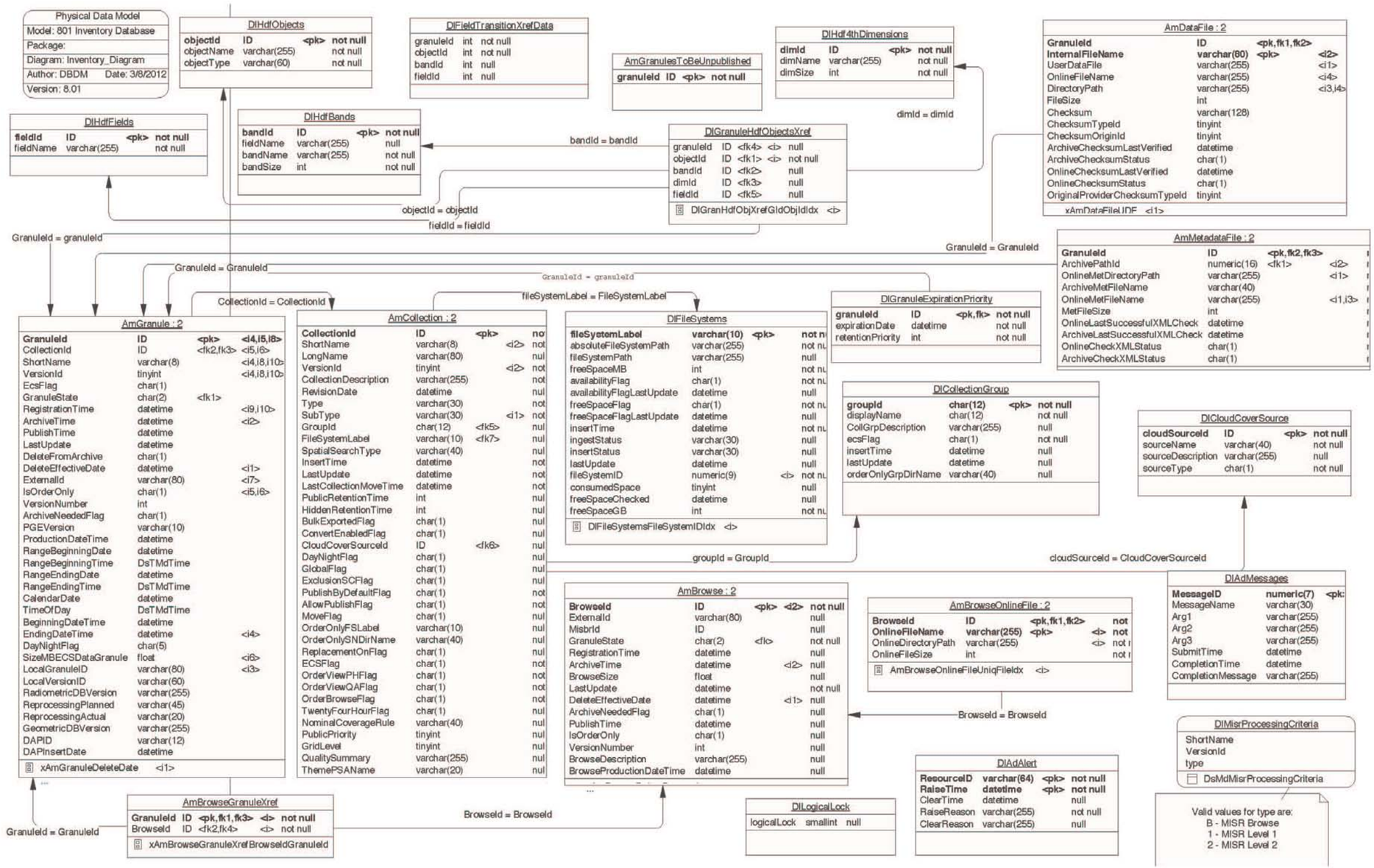


Figure A-1. EcInDb Entity Relationship Diagram (9 of 11)

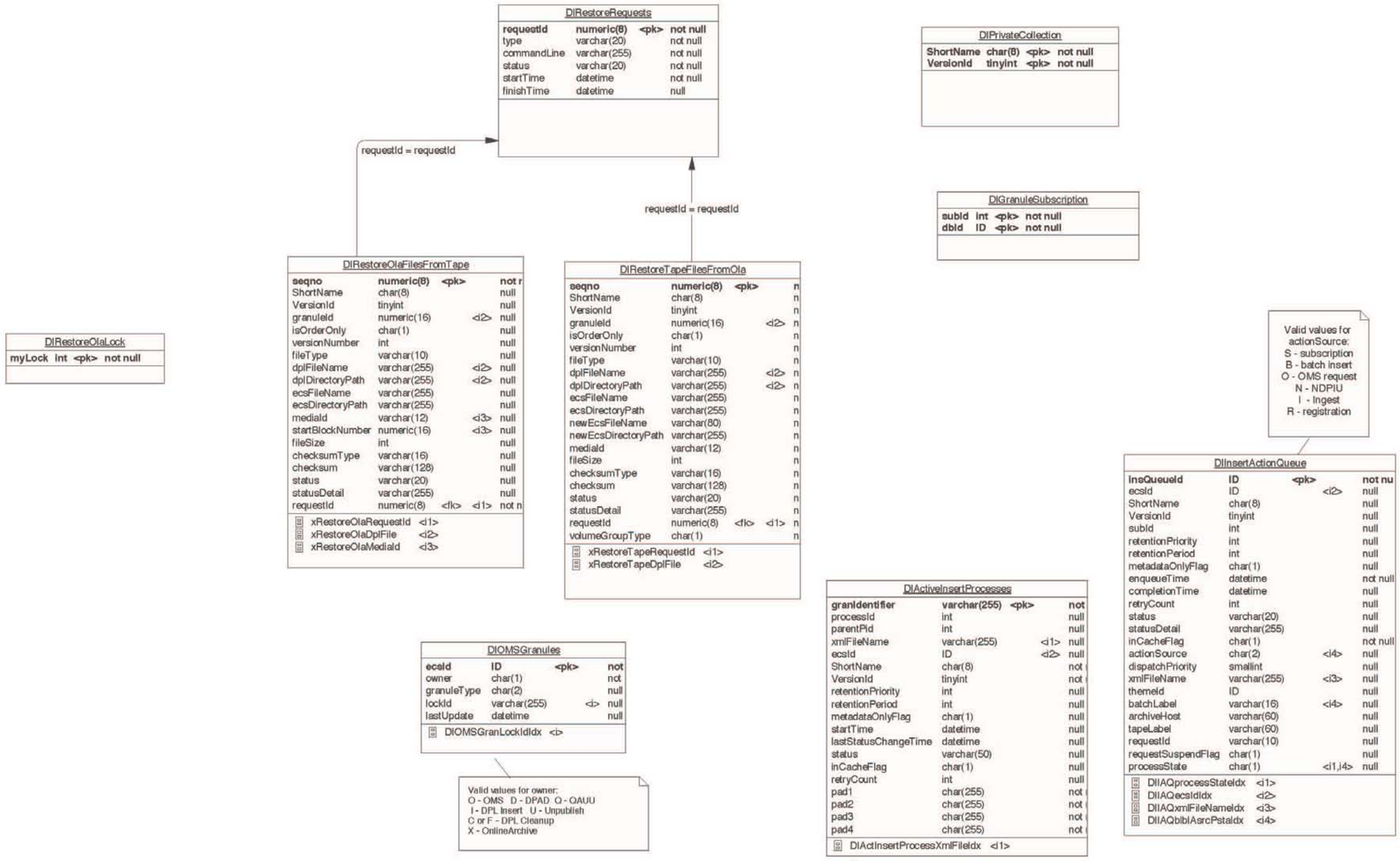
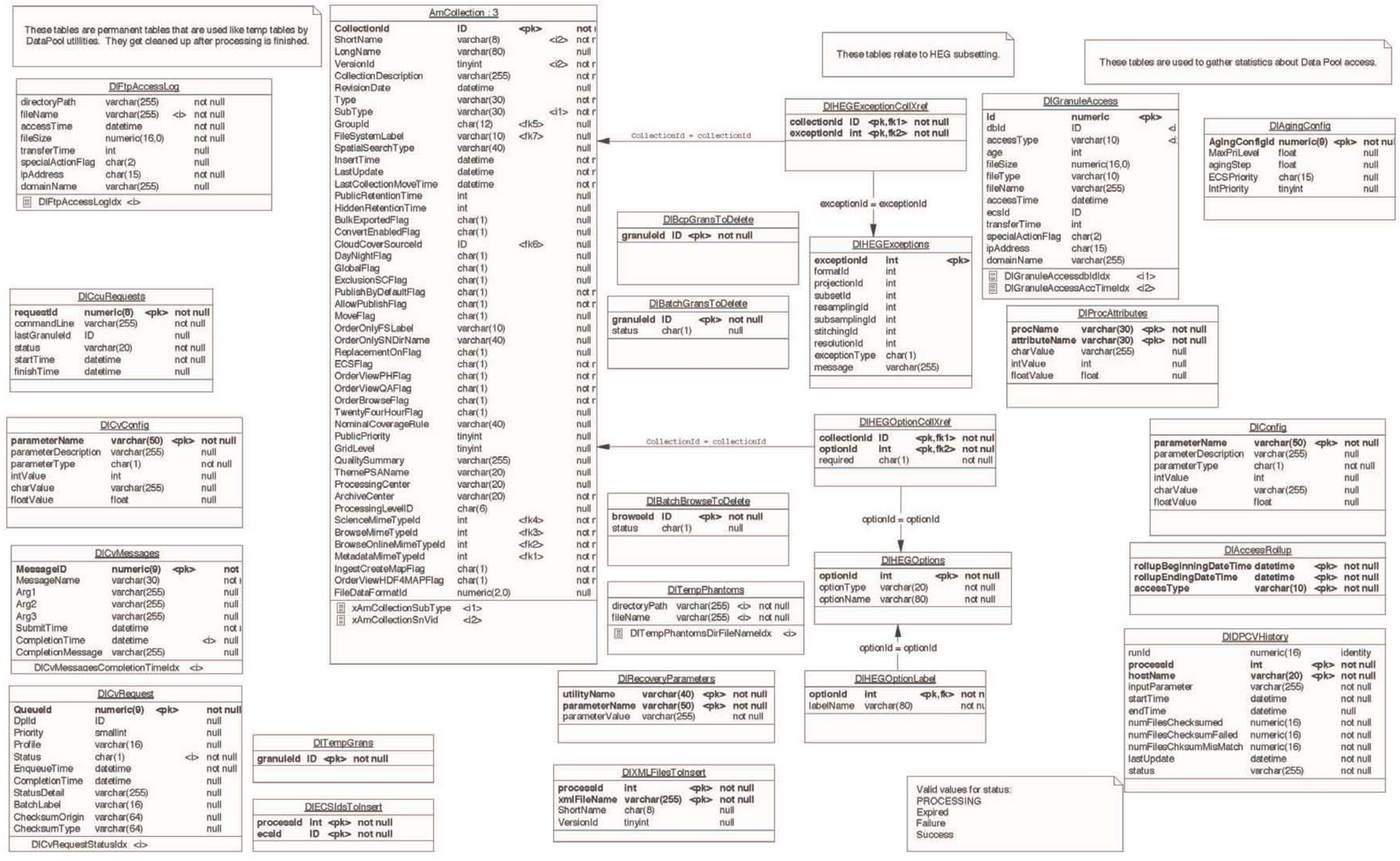


Figure A-1. EcInDb Entity Relationship Diagram (10 of 11)



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Appendix B. AIM Data Dictionary

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1 Table AmBrowse

1.1 Description

AmBrowse contains the description and size of a Browse product. The logical pointer to the actual Browse product instance is also included in this class. Its association with the collection indicates that it can apply to a collection as a whole while its association with a granule indicates that browse products may also occur one or more per granule.

1.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
BrowseId	ID	The unique ID which identifies the browse granule.	X		X
ExternalId	varchar(80)	The ID identifing the non-ECS granule (DataPool.)			
MisbrId	ID	Stores the GranuleId of the MISBR science granule stored in AmGranule that was used to generate (and is the same as) the "MISR" browse granule.			
GranuleState	char(2)	Stores the "processing" state (NW-new, RG-registered, AR-archived) for the indicated Browse granule.		X	X
RegistrationTime	datetime	Insert time (DataPool.)			
ArchiveTime	datetime	Insert time (Inventory.)			
BrowseSize	float	Stores the size of the browse granule (in bytes). Refer to technical paper 420-EMD-001.			
LastUpdate	datetime	The timestamp of the last row update.			X
DeleteEffectiveDate	datetime	Date and time after which the granule may be deleted.			
ArchiveNeededFlag	char(1)	Indicates whether the granule should also be placed in the archive (DataPool.)			
PublishTime	datetime	The time when the granule was made public (DataPool.)			
IsOrderOnly	char(1)	It indicates whether a granule is public or hidden, on order or not (DataPool.) Y: order only granule H: hidden granule B: public and on order NULL: public only			
VersionNumber	int	The suffix used to rename the root filename in case of duplicates (DataPool.)			
BrowseDescription	varchar(255)	Optionally stores a brief description of the Browse granule. Refer to technical paper 420-EMD-001.			
BrowseProductionDate Time	datetime	Optionally stores time the Browse granule was created. Refer to technical paper 420-EMD-001.			

1.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
xAmBrowseDeleteDate					

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
xAmBrowseArchiveTimeID					

1.4 Index xAmBrowseDeleteDate

1.4.1 Index columns for xAmBrowseDeleteDate

Code	*Sort*
DeleteEffectiveDate	Ascending

1.5 Index xAmBrowseArchiveTimeID

1.5.1 Index columns for xAmBrowseArchiveTimeID

Code	*Sort*
ArchiveTime	Ascending
BrowseId	Ascending

2 Table AmBrowseDataFile

2.1 Description

AmBrowseDataFile contains the file storage details for Browse products.

2.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
BrowseId	ID	The primary key, and foreign key from AmBrowse.	X	X	X
InternalFileName	varchar(80)	The ECS generated internal file name for granule files within the archive.			X
UserDataFile	varchar(255)	The name of a granule's file in the archive.			X
ArchiveFileSize	int	The size in bytes of a granule's file stored within the archive.			X
ChecksumOriginId	tinyint	Foreign key to the DsMdChecksumOrigins table. Identifies where the checksum value was obtained.			
ChecksumTypeId	tinyint	Foreign key to the DsMdChecksumTypes table. Associates a checksum algorithm with the file.			
Checksum	varchar(128)	Holds a string containing the checksum value of the associated file.			
ArchiveChecksumLast Verified	datetime	The last time Checksum was calculated or successfully verified.			
ArchiveChecksumStat us	char(1)	The checksum verification status. Valid values: N: checksum not calculated or checksum calculated but not verified P: checksum verification passed F: checksum verification failed			
OriginalProviderChec ksumTypeId	tinyint	Stores the ID value of the original provider ChecksumType.			

2.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
xAmBrowseDataFileIFN					

2.4 Index xAmBrowseDataFileIFN

2.4.1 Index columns for xAmBrowseDataFileIFN

Code	*Sort*
InternalFileName	Ascending

3 Table AmBrowseGranuleXref

3.1 Description

AmBrowseGranuleXref is a cross-reference table linking science to browse granules.

3.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
GranuleId	ID	The primary key, and foreign key from AmGranule.	X	X	X
BrowseId	ID	Foreign key from AmBrowse.		X	X

3.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
xAmBrowseGranuleXrefBrowseIdGr					

3.4 Index xAmBrowseGranuleXrefBrowseIdGranuleId

3.4.1 Index columns for xAmBrowseGranuleXrefBrowseIdGranuleId

Code	*Sort*
BrowseId	Ascending
GranuleId	Ascending

4 Table AmBrowseOnlineFile

4.1 Description

AmBrowseOnlineFile contains browse file information (DataPool.)

4.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
BrowseId	ID	Part of the primary key, and foreign key from AmBrowse.	X	X	X
OnlineFileName	varchar(255)	The file name for the browse file and part of the primary key (DataPool.)	X		X
OnlineDirectoryPath	varchar(255)	Path name of the browse granule files relative to the root directory (DataPool.)			X
OnlineFileSize	int	The size of the file (DataPool.)			X

4.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
AmBrowseOnlineFileUniqFileIdx	X				

4.4 Index AmBrowseOnlineFileUniqFileIdx

4.4.1 Index columns for AmBrowseOnlineFileUniqFileIdx

Code	*Sort*
OnlineFileName	Ascending
OnlineDirectoryPath	Ascending

5 Table AmBrowseReplacement

5.1 Description

AmBrowseReplacement records the relationship of a science to a browse granule prior to replacing the browse granule with a new browse granue. The reason for this table's existence is to enable us to delete the original browse granule.
Note that there are no foreign key constrains on this table by design.

5.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
GranuleId	ID	Part of the primary key, granule identifier from AmGranule.	X		X
OriginalBrowseId	ID	Part of the primary key, granule identifier from AmBrowse. Refers to the old browse granule that is being replaced.	X		X
ReplacementBrowseId	ID	Part of the primary key, granule identifier from AmBrowse. Refers to the new browse granule that is replacing the old browse granule.			X

6 Table AmCollection

6.1 Description

AmCollection contains detailed information for each granule collection.

6.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
CollectionId	ID	The primary key.	X		X
ShortName	varchar(8)	Stores a small, convienent, and unique name for the Collection. Refer to technical paper 420-EMD-001 for more information.			X
LongName	varchar(80)	Stores a more complete name for an ECS Colletion than the "ShortName" attribute. Refer to technical paper 420-EMD-001.			
VersionId	tinyint	Stores the version number of the collection (domain is from 1 to 255). Refer to technical paper 420-EMD-001 for more information.			X
CollectionDescription	varchar(255)	Stores a brief description of the ECS collection. Refer to technical paper 420-EMD-001			X
RevisionDate	datetime	Represents the date and possibly the time that this directory entry was created or the latest date and time of its modification or update.			
Type	varchar(30)	The encoded value used to depict the basetype of a particular ESDT. Example SC corresponds to Science. Values: BR: browse SC: science PH: QA: LM: DP: AC: AP:			X
SubType	varchar(30)	Internal use only. This columns convientently stores the ShortName combined with the VersionId of the collection. The VersionId is zero padded to 3 digits.			X
GroupId	char(12)	ECS collection group ID, foreign key from the DlCollectionGroup table (DataPool.)		X	
FileSystemLabel	varchar(10)	Label used to indicate which file system the collection belongs to, foreign key from the DlFileSystems table (DataPool.)		X	

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
SpatialSearchType	varchar(40)	Spatial representation of a granule. One of: Orbit Point GPolygon Rectangle NotSupported Unknown			
InsertTime	datetime	Records the time the granule was inserted into the ECS. It is used to determine the "Volume Group" where the file is stored.			X
LastUpdate	datetime	The timestamp of the last update to the row.			X
LastCollectionMoveTime	datetime	Last time the collection was moved. The initial value is the collection insert time (DataPool.)			X
PublicRetentionTime	int	The default retention time (hours) for public granules in this collection (DataPool.)			
HiddenRetentionTime	int	The default retention time (hours) for hidden granules in this collection (DataPool.)			
BulkExportedFlag	char(1)	Flag used to determine whether the collection allows for exporting metadata by the ECHO Access to Data Pool utility. Y: export to ECHO (default) N: do not export to ECHO			
ConvertEnabledFlag	char(1)	Flag use to determine whether the collection is allowed for HEG conversion. Y: allow HEG conversion N: do not allow HEG conversion (default)			
CloudCoverSourceId	ID	Indicates which cloud cover source that the collection uses, foreign key from DlCloudCoverSource table (DataPool.)		X	
DayNightFlag	char(1)	Flag that indicates whether the collection has day night coverage (DataPool.) Values: Y: has dayNight coverage (default) N: does not have dayNight coverage			
GlobalFlag	char(1)	Flag that indicates whether the collection is a global collection or it contains a very large spatial coverage (DataPool.) Values: Y: has global coverage N: does not have global coverage (default)			

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
ExclusionSCFlag	char(1)	Flag that indicates whether the collection is allowed to insert Science and Metadata to Data Pool or Metadata only (DataPool.) Y: Metadata only N: Science and Metadata (default)			
PublishByDefaultFlag	char(1)	Indicates whether granules in the collection are made public by default. Y: are made public N: stay hidden (default)			X
AllowPublishFlag	char(1)	Flag indicating whether granules from this collection are eligible for publication (DataPool.) Y: allow publication N: do not allow publication (default)			X
MoveFlag	char(1)	Flag indicating whether the collection is in the process of moving to a different file system (DataPool.) Y: in the process of moving N: not in the process of moving (default)			
OrderOnlyFSLabel	varchar(10)	Stores a reference to the file system (from DlFileSystems) where granules that are on order maybe stored.			
OrderOnlySNDirName	varchar(40)	Stores the "relative" directory name where granules within the collection that are "hidden" are stored.			
ReplacementOnFlag	char(1)	Flag indicating whether granule replacement is allowed for the collection (DataPool.) Y: granule replacement allowed N: granule replacement not allowed			
ECSFlag	char(1)	Flag indicating whether the collection is ECS or non-ECS (DataPool.) Y: ECS N: non-ECS			X
OrderViewPHFlag	char(1)	Flag indicating that PH granules associated with this collection may be viewed for ordering (DataPool.) Y: yes N: no			X
OrderViewQAFlag	char(1)	Flag indicating that QA granules associated with this collection may be viewed for ordering (DataPool.) Y: yes N: no			X
OrderBrowseFlag	char(1)	Flag indicating that Browse granules associated with this collection may be ordered (DataPool.) Y: yes N: no			X

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
TwentyFourHourFlag	char(1)	Flag indicating whether the collection has twenty four hours coverage (DataPool.) Y: has twenty-four hour coverage N: does not have twenty-four hour coverage (default)			
NominalCoverageRule	varchar(40)	The rule used to derive the target directory name for a collection with nominal granule coverage (DataPool.) eg: MODIS_8_16_LGID			
PublicPriority	tinyint	The default priority for public granules in this collection (DataPool.) Not used.			
GridLevel	tinyint	The spatial grid level used to generate density maps. Valid values are between 1 and 6; default = 6 (DataPool.)			
QualitySummary	varchar(255)	URL that displays the quality information (DataPool.)			
ThemePSAName	varchar(20)	This column is used to associate a granule with a PSA theme during publication. If the value is set(default = null), and the value exists in the xml file for the granule, NDPIU will try to associate the granule with the PSA theme. For example, if the value is set to "ThemeID", and the xml file contains an AdditionalAttributeName = "ThemeID" and its value is "2009_AN_NASA", NDPIU will try to associate the granule with a theme that's named “2009_AN_NASA" in DlThemes, if the theme is insertEnabled (DataPool.)			
ProcessingCenter	varchar(20)	Stores the location where the granule was produced. Refer to technical paper 420-EMD-001 for more information.			
ArchiveCenter	varchar(20)	Indicates the location where the collection is archived (typically an ECS DAAC). Refer to technical paper 420-EMD-001 for more information.			X
ProcessingLevelID	char(6)	Indicates the "NASA processing level" of the collection. Refer to technical paper 420-EMD-001 for more information.			
ScienceMimeTypeId	int	Stores the numeric identifier (from the AmMimeType table) indicating the "file type" (MIME type) of the science granule data file.		X	X

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
BrowseMimeTypeId	int	Stores the numeric identifier (from the AmMimeType table) indicating the "file type" (MIME type) of the browse file in AIM.		X	X
BrowseOnlineMimeTypeId	int	Stores the numeric identifier (from the AmMimeType table) indicating the "file type" (MIME type) of the browse file in the Online Archive.		X	X
MetadataMimeTypeId	int	Stores the numeric identifier (from the AmMimeType table) indicating the "file type" (MIME type) of the metadata file.		X	X
IngestCreateMapFlag	char(1)	If "Y" then Ingest will automatically queue a request to generate an HDF map for each granule ingested for the collection. If "N" then a map generation request is not automatically queued by Ingest.			X
OrderViewHDF4MAPFlag	char(1)	If "Y" then HDF map granules associated with this granules within the collection can be accessed by orders and links to the HDF map granule will be created in the Online Archive. If "N" then the HDF map granules are not available for ordering or placed into the public Online Archive.			X
FileDataFormatId	numeric(2,0)	Stores the numeric identifier (from the AmFileDataFormat table) indicating the "file type" of the science granule data file.			

6.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
xAmCollectionSubType	X				
xAmCollectionSnVid	X				

6.4 Index xAmCollectionSubType

6.4.1 Index columns for xAmCollectionSubType

Code	*Sort*
SubType	Ascending

6.5 Index xAmCollectionSnVid

6.5.1 Index columns for xAmCollectionSnVid

Code	*Sort*

Code	*Sort*
ShortName	Ascending
VersionId	Ascending

7 Table AmDaApplicationConfig

7.1 Description

Records configuration parameters used by the ESI applications.

7.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
Name	varchar(64)	The name of the application configuration parameter.	X		X
Description	varchar(256)	Description of the configuration parameter.			
Value	varchar(256)	The value of the configuration parameter.			X
GUIConfigurable	char(1)	Access and visibility group of the configuration parameter. Possible values are 'H' (Hidden: not visible in the GUI), 'R' (Read-Only: visible in the GUI, but not modifiable) 'W' (Read/Write: Visible and modifiable in the GUI), and 'D' (Deletable: Visible and modifiable in the GUI, and can also be completely removed via the GUI).			X
Type	varchar(16)	Data type of the configuration parameter. This should be a valid XML schema data type (e.g. 'xs:string', 'xs:integer').			X
ConfigGroup	varchar	Name of group, if any, to place the configuration parameter under. This value will allow parameters to be grouped in a hierarchical tree in the Data Access GUI for easier management.			

8 Table AmDaColFormatSrvXref

8.1 Description

Maps collections, services and formats. Defines the set of output formats, among those configured for a service (in AmDaFormatSrvXref), which are available for a particular coillection mapped to that service.

8.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
CollectionId	numeric(16,0)	Foreign key to AmCollection.CollectionId. Specifies the collection being mapped.	X		X
FormatId	numeric(5,0)	Foreign key to AmDaFormat.FormatId. Specifies the format being mapped.	X	X	X
ServiceId	numeric(5,0)	Foreign key to AmDaService.ServiceId. Specifies the service being mapped.	X	X	X
EnabledFlag	char(1)	An option mapping can be turned on or off. If this flag is 'Y', then it is turned on. If it is 'N' then it is turned off and not available for requests.			X

9 Table AmDaCollInterpolationSrvXref

9.1 Description

Maps collections, services, and interpolation methods. Defines the set of interpolation methods, among those configured for a service (in AmDaInterpolationSrvXref), which are available for a particular coillection mapped to that service.

9.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
CollectionId	numeric(16,0)	Foreign key to AmCollection.CollectionId. Specifies the collection being mapped.	X		X
InterpolationId	numeric(5,0)	Foreign key to AmDaInterpolationMethod. Specifies the Interpolation method being mapped.	X	X	X
ServiceId	numeric(5,0)	Foreign key to AmDaService.ServiceId. Specifies the service being mapped.	X	X	X
EnabledFlag	char(1)	An option mapping can be turned on or off. If this flag is 'Y', then it is turned on. If it is 'N' then it is turned off and not available for requests.			X

10 Table AmDaColProjectionSrvXref

10.1 Description

Maps collections, services, and projections. Defines the set of projections, among those configured for a service (in AmDaProjectionSrvXref), which are available for a particular collection mapped to that service.

10.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
CollectionId	numeric(5,0)	Foreign key to AmCollection.CollectionId. Specifies the collection being mapped.	X		X
ProjectionId	numeric(5,0)	Foreign key to AmDaProjection.ProjectionId. Specifies the projection being mapped.	X	X	X
ServiceId	numeric(5,0)	Foreign key to AmDaService.ServiceId. Specifies the service being mapped.	X	X	X
EnabledFlag	char(1)	An option mapping can be turned on or off. If this flag is 'Y', then it is turned on. If it is 'N' then it is turned off and not available for requests.			X

11 Table AmDaColResamplingSrvXref

11.1 Description

Maps collections, services, and resampling types. Defines the set of resampling types, among those configured for a service (in AmDaResamplingSrvXref), which are available for a particular collection mapped to that service.

11.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
CollectionId	numeric(16,0)	Foreign key to AmCollection.CollectionId. Specifies the collection being mapped.	X		X
ResamplingId	numeric(5,0)	Foreign key to AmDaResamplingType.ResamplingId. Specifies the reampling type being mapped.	X	X	X
ServiceId	numeric(5,0)	Foreign key to AmDaResamplingType.ResamplingId. Specifies the reampling type being mapped.	X	X	X
EnabledFlag	char(1)	An option mapping can be turned on or off. If this flag is 'Y', then it is turned on. If it is 'N' then it is turned off and not available for requests.			X

12 Table AmDaDatasetConfig

12.1 Description

Mapping between a collection (DataSet) and a service. This mapping also includes flags defining what options are available on the specified collection via the specified service. The Data Access GUI will ensure that the flags set in this table are legal based on what is in the AmDaService table for the same service.

12.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
CollectionId	numeric(16,0)	Foreign key to the AmCollection.CollectionId. Identifies the collection being mapped.	X		X
ServiceId	numeric(5,0)	Foreign key to AmDaService.ServiceId. Identifies the service being mapped.	X	X	X
AllowProjectionFlag	char(1)	Y/N flag which specifies whether reprojection is allowed by this collection/service mapping.			X
AllowFormatFlag	char(1)	Y/N flag which specifies whether reformating is allowed by this collection/service mapping.			X
AllowResamplingFlag	char(1)	Y/N flag which specifies whether resampling is allowed by this collection/service mapping.			X
AllowInterpolationFlag	char(1)	Y/N flag which specifies whether interpolation is allowed by this collection/service mapping.			X
AllowBandFlag	char(1)	Y/N flag which specifies whether band subsetting is allowed by this collection/service mapping.			X
AllowSpatialFlag	char(1)	Y/N flag which specifies whether spatial subsetting is allowed by this collection/service mapping.			X
AllowTemporalFlag	char(1)	Y/N flag which specifies whether temporal subsetting is allowed by this collection/service mapping.			X
EnabledFlag	char(1)	Y/N flag which specifies whether this collection/service mapping is enabled or disabled.			X

13 Table AmDaFormat

13.1 Description

Defines the file formats available for reformating via ESI. This table will be initially populated with all of the formats supported by the HEG and GDAL tools.

13.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
FormatId	numeric(5,0)	Unique identifier.	X		X
Name	varchar(40)	Short Name, used in request parameters.			X
Description	varchar(100)	Human readable description, used in GUI labels.			X

14 Table AmDaFormatSrvXref

14.1 Description

Maps formats to services. Defines what formats a service is capable of producing output in.

14.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
FormatId	numeric(5,0)	Foreign key to AmDaFormat.FormatId. Specifies the format being mapped.	X	X	X
ServiceId	numeric(5,0)	Foreign key to AmDaService.ServiceId. Specifies the service being mapped.	X	X	X

15 Table AmDaInterpolationMethod

15.1 Description

Defines the Interpolation Methods available via ESI. An interpolation method is the method used to interpolate unmeasured values when resampling or reprojecting. This table is initially populated with the Interpolation Methods supported by HEG.

15.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
InterpolationId	numeric(5,0)	The primary key.	X		X
Name	varchar(40)	Short Name, used in request parameters.			X
Description	varchar(100)	Human readable description, used in GUI labels.			X

16 Table AmDaInterpolationSrvXref

16.1 Description

Maps interpolation methods to services. Defines what interpolation methods are available for processing performed via a given service.

16.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
InterpolationId	numeric(5,0)	Foreign key to AmDaInterpolationMethod. Specifies the Interpolation method being mapped.	X	X	X
ServiceId	numeric(5,0)	Foreign key to AmDaService.ServiceId. Specifies the service being mapped.	X	X	X

17 Table AmDaJob

17.1 Description

Represents a job within a request. A job is basically a line item in a request and generally equates to a single granule.

17.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
JobId	numeric(16,0)	The primary key.	X		X
RequestId	numeric(16,0)	Foreign key to AmDaRequest.RequestId. Spcifies the request which the job belongs to.		X	X
GranuleId	numeric(16,0)	The unique ID which identifies the granule.			X
ProcessingURL	varchar(1024)	The Internal URL to submit the job to the processing tool.			X
Status	varchar(16)	The status of the job ('pending', 'canceled', 'failed', 'complete').			X
ErrorCode	varchar(32)	The error code of the job, if it has failed.			
Message	varchar(512)	The error message of the job, if it has failed.			
StartTime	datetime	The processing start tiem of the job.			
CompletionTime	datetime	The processing completion time of the job.			
InternalProcessID	bigint	If the Tool Adapters choose to, this column can be used to store the internal OS PID of the process which is performing the processing, for instance to be able to later kill the process.			

18 Table AmDaOutputFile

18.1 Description

Lists the output files associated with a job. This is used for cleaning up output files after a set duration and also for regulating the files made available for download via the ESIR web application. Only those files listed here are available for download.

18.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
FileId	numeric(16,0)	Unique identifier.	X		X
JobId	numeric(16,0)	Foreign key to AmDaJob.JobId. Specifies the job to which generated the file.		X	X
FileType	varchar(16)	Type of the file, 'SCIENCE' or 'METADATA'.			
MimeType	varchar(32)	The MIME type of the file, e.g. 'image/tiff', 'application/x-hdf'.			
FilePath	varchar(512)	The local filesystem path to the file, generally under /datapool. This could also be an HTTP path if the associated tool adapter has staged its output files remotely.			
FileSize	numeric(16,0)	The size of the file.			

19 Table AmDapPGEGroup

19.1 Description

Contains the delivered algorithm package PGE group information.

19.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
GranuleId	ID	The unique ID which identifies the granule.	X	X	X
DAPPGEName	varchar(20)	Stores the name of each Product Generation Executable within the DAP.	X		X
DAPPGEVersion	char(10)	Stores the version specification of each Product Generation Executable within the DAP.	X		X
DAPSWVersion	varchar(12)	Stores the Software Version specification of each Product Generation Executable within the DAP.	X		X

20 Table AmDaProjection

20.1 Description

Defines the projections available for reprojection via ESI. This table is initially populated with the projections supported by HEG as well as many others defined by the proj.4 framework which may be used by additional tools which may be integrated into the system.

20.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
ProjectionId	numeric(5,0)	Unique identifier.	X		X
Name	varchar(40)	Short Name, used in request parameters.			X
Description	varchar(100)	Human readable description, used in GUI labels.			X

20.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
XAMDAPROJECTIONNAME					

20.4 Index xAmDaProjectionName

20.4.1 Index columns for xAmDaProjectionName

Code	*Sort*
Name	Ascending

21 Table AmDaProjectionParam

21.1 Description

Defines the parameters associated with each projection.

21.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
ParamId	numeric(5,0)	Unique identifier.	X		X
ProjectionId	numeric(5,0)	Foreign key to AmDaProjection.ProjectionId. Specifies the projection associated with this parameter.	X	X	X
Name	varchar(40)	Short Name, used in request parameters.			X
Description	varchar(100)	Human readable description, used in GUI labels.			X
Unit	varchar(20)	Units of this parameter. For instance, 'Linear', 'Unitless', 'Boolean'. This will only be used to give guidance to a user, and not for validation purposes.			X
ProjParamDataType	varchar(20)	DataType of the parameter, using XML schema datatypes. For insatnce, 'xs:string', 'xs:decimal'. This datatype may be used to validate parameter values and will be used in building ECHO forms.			X
Minimum	decimal(10,5)	If the parameter has a range of valid values, this is the minimum allowed value.			
Maximum	decimal(10,5)	If the parameter has a range of valid values, this is the maximum allowed value.			
DefaultValue	decimal(10,5)	If a parameter has a default value, this is the value.			
RequiredFlag	char(1)	'Y' if this parameter is required for reprojections to the associated projection, 'N' if it is optional.			X
EnumerationFlag	char(1)	A "Y" / "N" flag which indicates whether or not a set of enumerated values are present for this projection parameter.			X

22 Table AmDaProjectionParamValue

22.1 Description

Defines a list of enumerations for a particular Projection Parameter if present.

22.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
ParamId	numeric(5,0)	References the numeric indentifier for the parameter definition in the AmDaProjectionParam table.	X		X
TypeValue	varchar(40)	Records one of the enumeration values for a referenced projection parameter that contains an enumeration of valid values.	X		X

23 Table AmDaProjectionResamplingXref

23.1 Description

Maps resampling types to the projections which those types are valid with.

23.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
ProjectionId	numeric(5,0)	Foreign key to AmDaProjection.ProjectionId. Specifies the projection being mapped.	X	X	X
ResamplingId	numeric(5,0)	Foreign key to AmDaResamplingType.ResamplingId. Specifies the reampling type being mapped.	X	X	X

24 Table AmDaProjectionSrvXref

24.1 Description

Maps projections to services. Defines what projections are available for reprojections performed via a given service.

24.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
ProjectionId	numeric(5,0)	Foreign key to AmDaProjection.ProjectionId. Specifies the projection being mapped.	X	X	X
ServiceId	numeric(5,0)	Foreign key to AmDaService.ServiceId. Specifies the service being mapped.	X	X	X

25 Table AmDaRequest

25.1 Description

Represents a request to ESI.

25.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
RequestId	numeric(16,0)	Unique identifier.	X		X
ServiceId	numeric(5,0)	Foreign key to AmDaService.ServiceId. Specifies the service which is responsible for processing the request.		X	X
ReceiveTime	datetime	The datetime when the request was received.			X
Priority	int	The priority of the request. Can be any numeric value, but for this release, it is only used to distinguish between "cheap" and "expensive" requests. if number of granules in a request is greater than the configuration parameter MAX_GRANS_FOR_CHEAP_REQUEST, then this is an expensive request and Priority is set to 1, otherwise it is cheap and Priority is set to 0.			X
RequestMode	varchar(8)	The mode of the request, 'sync' or 'async'.			X
EmailAddress	varchar	The email address of the requestor. This is only required if the RequestMode is 'async' and optional otherwise.			
CleanedUpFlag	char(1)	Specifies whether the request output has been cleaned up. 'Y' if it has, 'N' otherwise.			X

26 Table AmDaResamplingSrvXref

26.1 Description

Maps resampling types to services. Defines what resampling types are available via a given service.

26.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
ResamplingId	numeric(5,0)	Foreign key to AmDaResamplingType.ResamplingId. Specifies the reampling type being mapped.	X	X	X
ServiceId	numeric(5,0)	Foreign key to AmDaService.ServiceId. Specifies the service being mapped.	X	X	X

27 Table AmDaResamplingType

27.1 Description

Defines the dimensions of resampling which are available via ESI. These are the units which can be used when specifying a new pixel size for the output product. For instance, pixel size may be defined as a percent of original size, in meters, or as one of a defined set of values.

27.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
ResamplingId	numeric(5,0)	Unique identifier.	X		X
Name	varchar(40)	Short Name, used in request parameters.			X
Description	varchar(100)	Human readable description, used in GUI labels.			X
Unit	varchar(20)	Units of the dimension, such as 'Meters', 'Degrees', etc.			X
ResamplingDataType	varchar(20)	DataType of the parameter, using XML schema datatypes. For insatnce, 'xs:string', 'xs:decimal'. This datatype may be used to validate parameter values and will be used in building ECHO forms.			X
Minimum	numeric(10,5)	If the parameter has a range of valid values, this is the minimum allowed value.			
Maximum	numeric(10,5)	If the parameter has a range of valid values, this is the maximum allowed value.			
EnumerationFlag	char(1)	If this resampling dimension is an enumeration rather than a flag, this column is 'Y', 'N' otherwise.			X

27.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
XAMDARESAMPLINGTYPENAME					

27.4 Index xAmDaResamplingTypeName

27.4.1 Index columns for xAmDaResamplingTypeName

Code	*Sort*
Name	Ascending

28 Table AmDaResamplingTypeValue

28.1 Description

Defines a list of enumerations for a particular resampling dimension.

28.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
ResamplingId	numeric(5,0)	Foreign key to AmDaResamplingType.ResamplingId. Specifies the resampling type which the enumeration is associated with.	X	X	X
TypeValue	varchar(40)	The value of the enumeration.	X		X

29 Table AmDaService

29.1 Description

Defines the attributes of a single service to which jobs can be dispatched via ESI/EGI.

29.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
ServiceId	numeric(5,0)	Unique ID of the service.	X		X
Name	varchar(40)	Short name of the service, used as the SUBAGENT_ID value in requests to this service.			X
Description	varchar(100)	Descriptive name of the service. This will be used in the GUI to verbosely list the service.			X
AllowTemporalFlag	char(1)	Y/N flag which specifies whether this service provides temporal subsetting functionality.			X
AllowSpatialFlag	char(1)	Y/N flag which specifies whether this service provides spatial subsetting functionality.			X
MaxActiveAsyncJobs	int	Number of asynchronous jobs which can be dispatched to the service concurrently.			X
MaxActiveSyncJobs	int	Number of synchronous jobs which can be dispatched to the service concurrently.			X

29.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
XAMDASERVICENAME					

29.4 Index xAmDaServiceName

29.4.1 Index columns for xAmDaServiceName

Code	*Sort*
Name	Ascending

30 Table AmDaServiceProvider

30.1 Description

Defines a provider for a configured service. A provider is basically an end point for a configured service. In the 8.1 release, only a single provider is supported for each service so there should be a one-to-one relationship between service and service provider.

30.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
ServiceProviderId	numeric(5,0)	Unique ID of the servie provider.	X		X
ServiceId	numeric(5,0)	Foriegn key to AmService.ServiceId specifying the service associated with this provider.		X	X
ServicePath	varchar(255)	Foriegn key to AmService.ServiceId specifying the service associated with this provider.			X
RequestType	varchar(10)	The types of requests which this provider accepts. 'sync', 'async', or 'both'.			X
Timeout	int	Timeout value in seconds. This timeout is used only by EGI to determine how long to wait for a request before giving up. When this timeout is fired, the request will likely continue to execute on the host where it was invoked, unless the tool adapter implements a timeout as well. But the EGI resources will be freed up once the timeout has fired. This value should be set quite large, and should be greater than the timeout values set for any tool adapters.			X
Host	varchar(255)	The host where the service provider resides. This should always be set, but is only used when a filesystem path, rather than a URL is specified for the ServicePath. In this case, it specifies what host and port the RESTQuickServer is running on. If not set in the GUI, this will be populated automatically by the host name in ServicePath.			X

31 Table AmDataFile

31.1 Description

AmDataFile contains location, name, and checksum information for all granule data files in the online and tape archives, excluding the granule 'metadata' files.

31.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
GranuleId	ID	Part of the primary key, foreign key from AmGranule.	X	X	X
InternalFileName	varchar(80)	Part of the primary key, the ECS generated internal file name for granule files within the archive.	X		X
UserDataFile	varchar(255)	The name of a granule's file in the archive.			X
OnlineFileName	varchar(255)	The file name in the online archive (DataPool.)			X
DirectoryPath	varchar(255)	Path name of the file relative to the root directory (DataPool.)			X
FileSize	int	The size in bytes of a granule's file stored within the archive.			X
Checksum	varchar(128)	String containing the checksum value of the associated file.			
ChecksumTypeId	tinyint	Foreign key from the DsMdChecksumTypes table. Associates a checksum algorithm with the file.			
ChecksumOriginId	tinyint	Foreign key from the DsMdChecksumOrigins table. Identifies where the checksum value was obtained.			
ArchiveChecksumLast Verified	datetime	The last time Checksum was calculated or successfully verified.			
ArchiveChecksumStat us	char(1)	The checksum verification status. Valid values: N: checksum not calculated or checksum calculated but not verified P: checksum verification passed F: checksum verification failed			
OnlineChecksumLast Verified	datetime	The last time Checksum was calculated or successfully verified (DataPool.)			
OnlineChecksumStatu s	char(1)	The checksum verification status (DataPool.) Valid values: N: checksum not calculated or checksum calculated but not verified P: checksum verification passed F: checksum verification failed			
OriginalProviderChec ksumTypeId	tinyint	Stores the ID value of the original provider ChecksumType.			

31.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
xAmDataFileUDF					
xAmDataFileIFN					
AmDataFileDirectoryPath Idx					
AmDataFileFileNameDir PathIdx	X				

31.4 Index xAmDataFileUDF

31.4.1 Index columns for xAmDataFileUDF

Code	*Sort*
UserDataFile	Ascending

31.5 Index xAmDataFileIFN

31.5.1 Index columns for xAmDataFileIFN

Code	*Sort*
InternalFileName	Ascending

31.6 Index AmDataFileDirectoryPathIdx

31.6.1 Index columns for AmDataFileDirectoryPathIdx

Code	*Sort*
DirectoryPath	Ascending

31.7 Index AmDataFileFileNameDirPathIdx

31.7.1 Index columns for AmDataFileFileNameDirPathIdx

Code	*Sort*
OnlineFileName	Ascending
DirectoryPath	Ascending

32 Table AmDaTransfer

32.1 Description

Records information about the transfer time and location of each Data Access output file.

32.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
TransferDateTime	datetime	Stores the time required to transfer the file to the client.			X
FileName	varchar(512)	Stores the file name of the Data Access service output to be transferred to the client machine.			X
Status	smallint	Stores the current status of the transfer to the client.			X
Duration	int	Stores the time required to transfer the Data Access service output to the client machine.			X
Protocol	varchar(32)	Indicates the transfer protocol used to retrieve the Data Access Service output by the client.			X
FileSize	numeric(16,0)	Stores the size Data Access service output file to be transferred to the client machine.			X
MimeType	varchar(255)	Stores the MIME type of the Data Access Service Output file to be transferred to a client application.			X
RequestPath	varchar(512)	Stores the location of the Data Access Service output to be tranferred to the client.			X
ClientIP	varchar(40)	Records the IP address of the client retrieving a Data Access product.			X
UserAgent	varchar(512)	Records the command used to transfer the file to the client.			X

33 Table AmFileDataFormat

33.1 Description

Provides a "look up" reference to list the supported file MIME types and assigns a numeric code for use in other tables.

33.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
FileDataFormatId	numeric(2,0)	Stores the numeric identifier indicating the "file type".	X		X
FileDataFormat	varchar(55)	Stores the actual file type for each numeric identifier.			X

34 Table AmGranule

34.1 Description

AmGranule provides the core attributes for all granules, except for Browse granules.

34.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
GranuleId	ID	The primary key.	X		X
CollectionId	ID	Foreign key from AmCollection representing the collection the granule belongs to.		X	
ShortName	varchar(8)	Same as the ShortName of the collection the granule belongs to. Included from AmCollection to avoid the join.			X
VersionId	tinyint	Same as the VersionId of the collection the granule belongs to. Included from AmCollection to avoid the join.			X
EcsFlag	char(1)	Same as the ECSFlag of the collection the granule belongs to. Included from AmCollection to avoid the join.			X
GranuleState	char(2)	Foreign key from AmGranuleState indicating the state of the granule.		X	X
RegistrationTime	datetime	Insert time (DataPool.)			
ArchiveTime	datetime	Insert time (Inventory.)			
PublishTime	datetime	The time when the granule was made public (DataPool.)			
LastUpdate	datetime	The timestamp of the last row update.			
DeleteFromArchive	char(1)	This indicates different states based on the value. G: the granule was captured during the "golden month" and thus should not be deleted Y: the file is missing from tape (legacy; should go away now with the online archive) H: the granule is "hidden from view" (legacy; should go away now with DsMdGranuleRestriction) N: Do not delete			X
DeleteEffectiveDate	datetime	Date and time after which the granule may be deleted.			
ExternalId	varchar(80)	The ID identifing the non-ECS granule (DataPool.)			
IsOrderOnly	char(1)	It indicates whether a granule is public or hidden, on order or not (DataPool.) Y: order only granule H: hidden granule B: public and on order NULL: public only			

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
VersionNumber	int	The suffix used to rename the root filename in case of duplicates (DataPool.)			
ArchiveNeededFlag	char(1)	Indicates whether the granule should also be placed in the archive (DataPool.)			
PGEVersion	varchar(10)	Stores the version number of the Product Generation Executable associated with this granule. Refer to technical paper 420-EMD-001 for more information.			
ProductionDateTime	datetime	Stores the time the granule was created by the data provider. Refer to technical paper 420-EMD-001 for more information.			
RangeBeginningDate	datetime	Stores the acquisition date of the start of the granule (when using a date range). Refer to technical paper 420-EMD-001 for more information.			
RangeBeginningTime	DsTMdTime	Stores the acquisition time of day (GMT) of the start of the granule (when using a date range). Refer to technical paper 420-EMD-001 for more information.			
RangeEndingDate	datetime	Stores the acquisition date of the end of the granule (when using a date range). Refer to technical paper 420-EMD-001 for more information.			
RangeEndingTime	DsTMdTime	Stores the acquisition time of day (GMT) of the end of the granule (when using a date range). Refer to technical paper 420-EMD-001 for more information.			
CalendarDate	datetime	Stores the acquisition date of a granule (when using a Single Date instead of a date range). Refer to technical paper 420-EMD-001 for more information.			
TimeOfDay	DsTMdTime	Stores the acquisition time of day (GMT) of the granule (when using a single date and time instead of a date range). Refer to technical paper 420-EMD-001 for more information.			
BeginningDateTime	datetime	RangeBeginningDate and RangeBeginningTime combined into a single field; provided for indexing and searching efficiency.			

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
EndingDateTime	datetime	RangeEndingDate and RangeEndingTime combined into a single field; provided for indexing and searching efficiency.			
DayNightFlag	char(5)	Indicates whether the data within the granule was captured during the day or night. The domain for this column is (Day,Night, Both, NULL). Refer to technical paper 420-EMD-001 for more information.			
SizeMBECSDataGranule	float	Stores the size (in megabytes) of the granule data files. Refer to technical paper 420-EMD-001 for more information.			
LocalGranuleID	varchar(80)	Data provider supplied identifier for a granule.			
LocalVersionID	varchar(60)	Stores the version of the Product Generation Executable used by the data provider. Refer to technical paper 420-EMD-001 for more information.			
RadiometricDBVersion	varchar(255)	The version identifier of the Radiometric Database used during ASTER Level 1 processing.			
ReprocessingPlanned	varchar(45)	Indicates whether or not there are known plans for reprocessing this granule. Refer to technical paper 420-EMD-001 for more information.			
ReprocessingActual	varchar(20)	Indicates the whether this granule was reprocessed. Refer to technical paper 420-EMD-001 for more information.			
GeometricDBVersion	varchar(255)	The version number of the Geometric Database used in ASTER Level 1 processing.			
DAPID	varchar(12)	Stores the identifier of the Delivered Algorithm Package in the Data Providers system.			
DAPInsertDate	datetime	Records the date the Delivered Algorithm Package was ingested into ECS.			

34.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
xAmGranuleDeleteDate					
xAmGranuleArchiveTime					
xAmGranuleLGID					
xAmGranuleSNmVidETGranId	X	X			

Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
idx_AmGranulecolidgranidord					
AmGranuleCollIdIsOSizIdx					
AmGranuleExternalIdIdx					
AmGranuleGranuleIdIdx					
AmGranuleRegTimeIdx					
AmGranuleSNVIIdx					

34.4 Index xAmGranuleDeleteDate

34.4.1 Index columns for xAmGranuleDeleteDate

Code	Sort
DeleteEffectiveDate	Ascending

34.5 Index xAmGranuleArchiveTime

34.5.1 Index columns for xAmGranuleArchiveTime

Code	Sort
ArchiveTime	Ascending

34.6 Index xAmGranuleLGID

34.6.1 Index columns for xAmGranuleLGID

Code	Sort
LocalGranuleID	Ascending

34.7 Index xAmGranuleSNmVidETGranId

34.7.1 Index columns for xAmGranuleSNmVidETGranId

Code	Sort
ShortName	Ascending
VersionId	Ascending
EndingDateTime	Ascending
GranuleId	Ascending

34.8 Index idx_AmGranulecolidgranidord

34.8.1 Index columns for idx_AmGranulecolidgranidord

Code	Sort
CollectionId	Ascending
GranuleId	Ascending
IsOrderOnly	Ascending

34.9 Index AmGranuleCollIdIsOSizIdx

34.9.1 Index columns for AmGranuleCollIdIsOSizIdx

Code	*Sort*
CollectionId	Ascending
IsOrderOnly	Ascending
SizeMBECSDataGranule	Ascending

34.10 Index AmGranuleExternalIdIdx

34.10.1 Index columns for AmGranuleExternalIdIdx

Code	*Sort*
ExternalId	Ascending

34.11 Index AmGranuleGranuleIdIdx

34.11.1 Index columns for AmGranuleGranuleIdIdx

Code	*Sort*
GranuleId	Ascending
ShortName	Ascending
VersionId	Ascending

34.12 Index AmGranuleRegTimeIdx

34.12.1 Index columns for AmGranuleRegTimeIdx

Code	*Sort*
RegistrationTime	Ascending

34.13 Index AmGranuleSNVIIdx

34.13.1 Index columns for AmGranuleSNVIIdx

Code	*Sort*
ShortName	Ascending
VersionId	Ascending
RegistrationTime	Ascending

35 Table AmGranuleState

35.1 Description

Table that contains all the granule states.

35.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
GranuleState	char(2)	The primary key.	X		X
Description	varchar(255)	The full description for this granule state.			X

36 Table AmGranulesToBeUnpublished

36.1 Description

Table that holds the IDs of the granules that should be unpublished.

36.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
granuleId	ID	The primary key.	X		X

37 Table AmHdfMapGenerationService

37.1 Description

Provides a "look up" reference to list versions of the HDF map generation software and assigns a numeric IDs for use in other tables.

37.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
MapServiceId	numeric(2,0)	Stores a unique numeric identifier for each Map Generation service /version.	X		X
MapGenerationVersion	varchar(55)	Stores the version number (typically in x.y.z format) of the Map Generation Service.			X
MapGenerationService	varchar(55)	Stores the name of the Map Generation Service (currently limited to "MGS").			X

37.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
xAmHdfMapGenerationServiceUVer					

37.4 Index xAmHdfMapGenerationServiceUVerSrv

37.4.1 Index columns for xAmHdfMapGenerationServiceUVerSrv

Code	*Sort*
MapGenerationVersion	Ascending
MapGenerationService	Ascending

38 Table AmHdfMapGranuleXref

38.1 Description

Provides a cross reference between Science granules and their associated HDF map granule. Also includes a reference to the version of the Map Generation software used to create the HDF Map granule.

38.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
ScienceId	numeric(16,0)	Stores the GranuleId (in the AmGranule) table of the science granule associated with the indicated HDF Map granule.	X		X
HdfMapId	numeric(16,0)	Stores the GranuleId of the HDF Map granule within the AmGranule table.			X
MapServiceId	numeric(2,0)	Stores the numeric identifier associated with a Map Generation Service defined in AmHdfMapGenerationService.			X

38.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
xAmHdfMapGranuleXref HdfMapId					

38.4 Index xAmHdfMapGranuleXrefHdfMapId

38.4.1 Index columns for xAmHdfMapGranuleXrefHdfMapId

Code	*Sort*
HdfMapId	Ascending

39 Table AmMetadataFile

39.1 Description

AmMetadataFile has the granule metadata attributes.

39.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
GranuleId	ID	The primary key, and foreign key from AmGranule.	X	X	X
ArchivePathId	numeric(16)	Foreign key from DsMdXMLPath.		X	
OnlineMetDirectoryPath	varchar(255)	Path name of the metadata files relative to the root directory (DataPool.)			X
ArchiveMetFileName	varchar(40)	The name of the metadata file. It resides within the path specified by the ArchivePathId.			
OnlineMetFileName	varchar(255)	The name of the metadata file. It resides within the path specified by OnlineMetDirectoryPath (DataPool.)			X
MetFileSize	int	The size of the file in ??TBD??.			X
OnlineLastSuccessfulXMLCheck	datetime	The timestamp of the last successful XML check (DataPool.)			
ArchiveLastSuccessfulXMLCheck	datetime	The timestamp of the last successful XML check.			
OnlineCheckXMLStatus	char(1)	The status of the last XML check (DataPool.) Values: P: Pass F: Fail N: Non exist			
ArchiveCheckXMLStatus	char(1)	The status of the last XML check. Values: P: Pass F: Fail N: Non exist			

39.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
xAmMetadataFileDirFileName	X				
xAmMetadataFilePathId					
xAmMetadataFileFileName					

39.4 Index xAmMetadataFileDirFileName

Code	*Sort*
OnlineMetDirectoryPath	Ascending
OnlineMetFileName	Ascending

39.5 Index xAmMetadataFilePathId

39.5.1 Index columns for xAmMetadataFilePathId

Code	*Sort*
ArchivePathId	Ascending

39.6 Index xAmMetadataFileFileName

39.6.1 Index columns for xAmMetadataFileFileName

Code	*Sort*
OnlineMetFileName	Ascending

40 Table AmMgMessages

40.1 Description

Used to record status messages during the Release 7.23 Online Archive migration. This table is not currently used and will be removed in a future release.

40.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
MessageID	numeric(9,0)	Used to record the unique ID for each recorded message in the Release 7.23 migration utility. Will be removed in a future release.	X		X
MessageName	varchar(30)	Used to record a name associated with the indicated message the Release 7.23 migration utility. Will be removed in a future release.			X
Arg1	varchar(255)	Used to record arguments to the Release 7.23 migration utility. Will be removed in a future release.			
Arg2	varchar(255)	Used to record arguments to the Release 7.23 migration utility. Will be removed in a future release.			
Arg3	varchar(255)	Used to record arguments to the Release 7.23 migration utility. Will be removed in a future release.			
SubmitTime	datetime	Used to record the submission time of a job in the Release 7.23 migration utility. Will be removed in a future release.			X
CompletionTime	datetime	Used to record the completion time of a job in the Release 7.23 migration utility. Will be removed in a future release.			
CompletionMessage	varchar(255)	Used to record a brief message describing the end of a job in the Release 7.23 migration utility. Will be removed in a future release.			

41 Table AmMgRequest

41.1 Description

Used to record requests to transfer granules to the DataPool during the Release 7.23 Online Archive migration. This table is not currently used and will be removed in a future release.

41.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
QueueId	numeric(9,0)	Used to record a unique identifier for each Map Generation request entered.	X		X
GranuleId	numeric(16,0)	The unique GranuleId which identifies the granule in AmGranule.			
Priority	smallint	Used to indicate the processing order of Map Generation requests (higher numbers process faster).			
Profile	varchar(16)	Currently not used.			
Status	char(1)	Stores the current status of a Map Generation request. If failed, refer to the StatusDetail column for more information.			X
EnqueueTime	datetime	Used to record the time the request was entered into the system.			X
CompletionTime	datetime	Used to record the completion time of the Map Generation request.			
StatusDetail	varchar(255)	Used to record the error information when the overall status of the request is failed.			
BatchLabel	varchar(16)	Used to record a user defined label for identifying individual requests.			
ChecksumOrigin	varchar(64)	Not used.			
ChecksumType	varchar(64)	Not used.			
MapGenerationClient	varchar(55)	Stores the name of the Client that submitted the Map Generation request.			X
ReplaceMapFlag	char(1)	If set, indicates that existing Map granules will be replaced by the request. If not set, then existing Map Granules will generate an error when an attempt to replace them occurs.			X
TemporaryOutputDir	varchar(255)	Used to record the location for storing outputs of Map Generation when the utility is run in "demo" mode. In this mode the map granules are not inserted into the archives.			

41.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
xAmMgRequestGranuleId					

41.4 Index xAmMgRequestGranuleId

41.4.1 Index columns for xAmMgRequestGranuleId

Code	*Sort*
GranuleId	Ascending

42 Table AmMimeType

42.1 Description

Holds all the MIME (Multipurpose Internet Mail Extensions) types.

42.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
MimeTypeId	int	The primary key.	X		X
MimeType	varchar(50)	The Content-Type string.			X

42.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
idx_ammimetype	X				

42.4 Index idx_ammimetype

42.4.1 Index columns for idx_ammimetype

Code	*Sort*
MimeType	Ascending

43 Table AmPhGranuleXref

43.1 Description

Cross reference table associating Science to PH granules.

43.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
ScienceId	ID	Part of the primary key, and foreign key from AmGranule representing the GranuleId of a SCIENCE granule.	X	X	X
PhId	ID	Part of the primary key, and foreign key from AmGranule representing the GranuleId of a PH granule.	X	X	X

43.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
xAmPhGranuleXrefPhId					

43.4 Index xAmPhGranuleXrefPhId

43.4.1 Index columns for xAmPhGranuleXrefPhId

Code	*Sort*
PhId	Ascending

44 Table AmQaGranuleXref

44.1 Description

Cross reference table associating Science to QA granules.

44.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
ScienceId	ID	Part of the primary key, and foreign key from AmGranule representing the GranuleId of a SCIENCE granule.	X	X	X
QaId	ID	Part of the primary key, and foreign key from AmGranule representing the GranuleId of a QA granule.	X	X	X

44.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
xAmQaGranuleXrefQaId					

44.4 Index xAmQaGranuleXrefQaId

44.4.1 Index columns for xAmQaGranuleXrefQaId

Code	*Sort*
QaId	Ascending

45 Table ApplicationLocks

45.1 Description

Supports RegisterApplication and UnRegisterApplication stored procedures. Used for MUTEX implementation across hosts (via the database.)

45.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
spid	smallint	Part of the primary key, the sybase SPID of the connecting session.	X		X
kpid	int	Part of the primary key, the sybase KPID of the connecting session.	X		X
lockname	varchar(64)	Part of the primary key, it is an identifier for the MUTEX. Each critical section should have a different lockname (per application.)	X		X
application	varchar(128)	Part of the primary key, the name of the application that's holding a lock.	X		X
starttime	datetime	The starting timestamp for a lock.			X
endtime	datetime	The ending timestamp for a lock.			

46 Table DlAccessRollup

46.1 Description

Contains information used for running DataPool access statistic reports.

46.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
rollupBeginningDateTime	datetime	The starting timestamp at which DataPool accesses are extracted from the ftp or web logs.	X		X
rollupEndingDateTime	datetime	The ending timestamp at which DataPool accesses are extracted from the ftp or web logs.	X		X
accessType	varchar(10)	The type of access log for this process. 'FTP': any ftp access 'http': any web access	X		X

47 Table DIActiveInsertProcesses

47.1 Description

This table contains information on all the current active Data Pool insert processes.

47.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
granIdentifier	varchar(255)	The primary key, identifying an insert process.	X		X
processId	int	Unix process id for the utility doing the insert.			
parentPid	int	The Unix pid of the parent Data Pool Action Driver (DPAD) process that created this DPIU.			
xmlFileName	varchar(255)	Location of the xml file for Non-ECS granules.			
ecsId	ID	The unique ID which identifies the granule. It matches the GranuleId in the inventory tables.			
ShortName	char(8)	The ECS collection short name of the granule in process.			X
VersionId	tinyint	The ECS collection version of the granule in process.			X
retentionPriority	int	Priority of the granule. Values: 1-255			
retentionPeriod	int	The retention period associated with this subscription.			
metadataOnlyFlag	char(1)	The flag indicates whether the action is for inserting only a metadata file for that granule, not the granule science files. Values: Y: Insert the metadata file only N: Insert science granule files and metadata file			
startTime	datetime	Timestamp of when the current action was dispatched.			
lastStatusChangeTime	datetime	Timestamp of when the current action last changed status.			

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
status	varchar(50)	The status of the process. Values: STARTING: process was initialized and has started to process a Data Pool insert PROCESSING: the current process is in process LOCATING GRANULE FILES: looking for science granule files LOCATING BROWSE FILES: looking for browse granule files COPYING GRANULES FROM AMASS: copy science granules from the AMASS host GENERATING XML FILE: generating the metadata file in XML format MOVING GRANULE TO DATA POOLS: copy granule into Data Pool COPYING AIM INVENTORY: copy metadata from the AIM database POPULATING THE DATA WAREHOUSE: populating all the fact tables PROCESSING BROWSE XREF: generate cross-reference between science granule and browse granule MOVING BROWSE TO DATA POOLS: copy browse granules into Data Pool COPYING BROWSE FROM AMASS: copy browse granule from the AMASS host EXTRACTING JPEGS: extra the jpeg from the browse file UPDATING BROWSE INVENTORY: update the browse inventory data in Data Pool database CREATING BROWSE LINKS: create links for browse file			
inCacheFlag	char(1)	Indicates if the process is handling a granule that must be read off tape or whether the granule is in AMASS cache. Values: Y: the granule is in cache (default) N: the granule is on tape			
retryCount	int	Counts the number of retries for the action.			
pad1	char(255)	Padding so each row takes one database page - helps in avoiding deadlocks.			X
pad2	char(255)	Padding so each row takes one database page - helps in avoiding deadlocks.			X

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
pad3	char(255)	Padding so each row takes one database page - helps in avoiding deadlocks.			X
pad4	char(255)	Padding so each row takes one database page - helps in avoiding deadlocks.			X

47.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
DlActInsertProcessXmlFileIdx					
DlActiveInsertProcessEcsIdIdx					

47.4 Index DlActInsertProcessXmlFileIdx

47.4.1 Index columns for DlActInsertProcessXmlFileIdx

Code	*Sort*
xmlFileName	Ascending

47.5 Index DlActiveInsertProcessEcsIdIdx

47.5.1 Index columns for DlActiveInsertProcessEcsIdIdx

Code	*Sort*
ecsId	Ascending

48 Table DlAdAlert

48.1 Description

Stores alerts that have been raised for resources such as file systems, service hosts, and archives.

48.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
ResourceID	varchar(64)	Label of the resource for which the alert was raised.	X		X
RaiseTime	datetime	Open timestamp for the alert.	X		X
ClearTime	datetime	Clear timestamp for the alert, not cleared if null.			
RaiseReason	varchar(255)	Text message giving the reason for the alert.			X
ClearReason	varchar(255)	Text message giving the reason for clearing the alert, null if ClearTime is null.			

49 Table DIAdMessages

49.1 Description

This table is used to pass messages to the DPAD server. Messages are used to control the server, for example, to manually suspend and resume resources, start and stop queues, etc.

49.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
MessageID	numeric(7)	Primary key.	X		X
MessageName	varchar(30)	This gives the name of the message, and is used by the DPAD server to determine what action must be performed.			X
Arg1	varchar(255)	This column provides storage for an optional message argument. If the message requires no arguments, this column may be null.			
Arg2	varchar(255)	If Arg1 is null, this must also be null			
Arg3	varchar(255)	If Arg2 is null, this must also be null			
SubmitTime	datetime	The time at which the server message was inserted.			X
CompletionTime	datetime	The time at which the server message was processed.			
CompletionMessage	varchar(255)	Text message for the server message that was processed.			

50 Table DlAgingConfig

50.1 Description

Stores the global aging policy used to describe how the dispatch priority of a granule changes over time.

50.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
AgingConfigId	numeric(9)	Primary key.	X		X
MaxPriLevel	float	Max Priority Level that the request promoted for the aging policy.			
agingStep	float	Number of steps to promote the request for the aging policy.			
ECSPriority	char(15)	Priority for the ECS request before gets into the DPL.			
IntPriority	tinyint	Value for each aging step.			

51 Table DlBatchBrowseToDelete

51.1 Description

Used by DPL Cleanup to list browse granules eligible for deletion.

51.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
browseId	ID	Foreign key from AmBrowse.	X		X
status	char(1)	Status of the delete. 'L': locked 'P': not locked			

52 Table DlBatchGransToDelete

52.1 Description

Used by DPL Cleanup to list non-browse granules eligible for deletion.

52.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
granuleId	ID	Primary key.	X		X
status	char(1)	Status of the delete. 'L': locked 'P': not locked			

53 Table DlBcpGransToDelete

53.1 Description

Used by DPL Cleanup as a starting point to list all granules eligible for deletion.

53.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
granuleId	ID	Primary key.	X		X

54 Table DlCcuRequests

54.1 Description

Stores information about cloud cover metadata update requests.

54.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
requestId	numeric(8)	Primary key.	X		X
commandLine	varchar(255)	Command line parameters for the request.			X
lastGranuleId	ID	The last granuleId that the request worked on.			
status	varchar(20)	Status of the request. Values: Initialized, New, Populating, Complete, Failed, Aborted, Populating			X
startTime	datetime	Timestamp the current action was dispatched.			X
finishTime	datetime	Timestamp the request was completed.			

55 Table DlCloudCoverSource

55.1 Description

Contains all the cloud cover sources used by DataPool.

55.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
cloudSourceId	ID	Primary key.	X		X
sourceName	varchar(40)	The name used to identify the cloud cover source.			X
sourceDescription	varchar(255)	The cloud cover source description.			
sourceType	char(1)	Cloud cover source type. Values: P: PSA C: Core Metadata			X

56 Table DlCollectionGroup

56.1 Description

Contains information about Data Pool collection groups. Collection groups are based on the ECS Bulk Metadata Generation Tool collection groups, and represent groupings of ECS collections by instrument and mission (e.g. MOAT).

56.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
groupId	char(12)	Primary key.	X		X
displayName	char(12)	Group name uses to display on Web Drill Down page.			X
CollGrpDescription	varchar(255)	Description of the ECS collection group.			
ecsFlag	char(1)	Flag used to identify whether the collection group is ECS or non-ECS. Values: Y: ECS N: non-ECS			X
insertTime	datetime	The timestamp of the last row insert.			
lastUpdate	datetime	The timestamp of the last row update.			
orderOnlyGrpDirName	varchar(40)	Order only group level directory name.			

57 Table DlCompressionAlgorithms

57.1 Description

Contains all the compression algorithms that are used by DataPool.

57.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
compAlgorithmLabel	char(10)	Primary key.	X		X
compCmd	varchar(255)	The command for a compression algorithm with full path.			X
decompCmd	varchar(255)	The associated decompress command for the compression algorithm with full path.			
defaultFileExtension	char(10)	The default file extension used for the compressed file after the granule file is compressed.			
activeFlag	char(1)	Flag indicates whether the compression algorithm is active. Values: Y: compression algorithm active (default) N: compression algorithm is not active			X
lastUpdate	datetime	The timestamp of the last row update.			
insertTime	datetime	The timestamp of the last row insert.			X

58 Table DIConfig

58.1 Description

Contains parameter names and values for all DataPool configuration parameters which are configurable through the DataPool Maintenance GUI.

58.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
parameterName	varchar(50)	Primary key.	X		X
parameterDescription	varchar(255)	The description of the parameter.			
parameterType	char(1)	The data type of the parameter. The valid values are: I: integer C: character F: float			X
intValue	int	The value of the parameter which has data type of integer.			
charValue	varchar(255)	The value of the parameter which has data type of character.			
floatValue	float	The value of the parameter which has data type of float.			

59 Table DICvConfig

59.1 Description

Stores information about the configuration parameters for a checksum verification request.

59.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
parameterName	varchar(50)	Primary key.	X		X
parameterDescription	varchar(255)	The description of the parameter.			
parameterType	char(1)	The data type of the parameter. The valid values are: I: integer C: character F: float			X
intValue	int	The value of the parameter which has data type of integer.			
charValue	varchar(255)	The value of the parameter which has data type of character.			
floatValue	float	The value of the parameter which has data type of float.			

60 Table DlCvMessages

60.1 Description

Stores messages generated during the processing of a checksum verification request.

60.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
MessageID	numeric(9)	Primary key.	X		X
MessageName	varchar(30)	This gives the name of the message, and is used by the DPAD server to determine what action must be performed.			X
Arg1	varchar(255)	This column provides storage for an optional message argument. If the message requires no arguments, this column may be null.			
Arg2	varchar(255)	This column provides more storage for an optional message argument. If Arg1 is null, this must also be null.			
Arg3	varchar(255)	This column provides more storage for an optional message argument. If Arg2 is null, this must also be null.			
SubmitTime	datetime	The time at which the server message was inserted.			X
CompletionTime	datetime	The time at which the server message was processed.			
CompletionMessage	varchar(255)	Text message for the server message that was processed.			

60.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
DlCvMessagesCompletion TimeIdx					

60.4 Index DlCvMessagesCompletionTimeIdx

60.4.1 Index columns for DlCvMessagesCompletionTimeIdx

Code	*Sort*
CompletionTime	Ascending

61 Table DlCvRequest

61.1 Description

Stores information about checksum verification requests.

61.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
QueueId	numeric(9)	Primary key.	X		X
DplId	ID	The identifier of the Data Pool granule to be checksummed.			
Priority	smallint	The priority of the request, with 1 being the lowest, and 255 the highest.			
Profile	varchar(16)	For future expansion. Currently set to 'DEFAULT'.			
Status	char(1)	The status of the request. Values: N: new P: pending C: complete F: failed			X
EnqueueTime	datetime	The time at which the request was inserted.			X
CompletionTime	datetime	The time at which the request was completed.			
StatusDetail	varchar(255)	Any server side completion (or error) message.			
BatchLabel	varchar(16)	A client side label assigned to the request (or batch of requests) for identification.			
ChecksumOrigin	varchar(64)	This string contains the name of a valid ECS checksum provider.			
ChecksumType	varchar(64)	The type of checksum that was performed.			

61.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
DlCvRequestStatusIdx					

61.4 Index DlCvRequestStatusIdx

61.4.1 Index columns for DlCvRequestStatusIdx

Code	*Sort*
Status	Ascending

62 Table DlDaColHdfObjectSrvXref

62.1 Description

Defines the HDF objects (i.e. Objects, Fields, Bands, and Dimensions) with the HDF hierarchy which are available for band subsetting for granules of a specific collection via a specific service. This table is populated from the superset of all values in DlGranuleHdfObjectsXref for a given collection when the collection is linked to a service. So the collection must be set up to properly populate this table for all granules in order for band subsetting via ESI to work properly.

62.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
CollectionId	numeric(5,0)	Foreign key to AmCollection.CollectionId specifying the collection which contains the HDF objects defined herein.	X		X
ServiceId	numeric(5,0)	Foreign key to AmDaService.ServiceId specifying the service to which the collection and HDF objects are being mapped.	X	X	X
ObjectId	numeric(16,0)	Foreign key to DlHdfObjects.objectid specifying the top hierarchical level of this HDF Object.	X		X
FieldId	numeric(16,0)	Foreign key to DlHdfFields specifying the second hierarchical level of this HDF Object.	X		X
BandId	numeric(16,0)	Foreign key to DlHdfBands specifying the third hierarchical level of this HDF object.			
DimId	numeric(16,0)	Foreign key to DlHdf4thDimensions specifying the fourth hierarchical level of this HDF object.			
EnabledFlag	char(1)	Flag specifying whether this object is enabled for band subsetting via this service and collection mapping.			X

63 Table DIDPCVHistory

63.1 Description

Records a history of Data Pool checksum verifications.

63.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
runId	numeric(16)	Identifier for a particular row in the table.			X
processId	int	Unix process Id for the utility. Part of the primary key.	X		X
hostName	varchar(20)	Name of host where checksum utility was run. Part of the primary key.	X		X
inputParameter	varchar(255)	Command line parameters used by DPCV utility.			X
startTime	datetime	Starting time for the checksum utility run.			X
endTime	datetime	Ending time for the checksum utility run.			
numFilesChecksumed	numeric(16)	The total number of files checksummed.			X
numFilesChecksumFailed	numeric(16)	The number of checksum failures.			X
numFilesChksumMisMatch	numeric(16)	The number of checksum failures due to mismatched checksums.			X
lastUpdate	datetime	The timestamp of the last row update.			X
status	varchar(255)	Status of the DPCV run. Values: PROCESSING Success Expired Failure			X

64 Table DIECSIdsToInsert

64.1 Description

Holds the granules from the tape archive referenced by the Batch Insert utility.

64.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
processId	int	Unix process Id for the utility. Part of the primary key.	X		X
ecsId	ID	The unique ID which identifies the granule. It matches the GranuleId in the inventory tables.	X		X

65 Table DlFieldTransitionXrefData

65.1 Description

Contains the 4th dimension information of a HDF object.

65.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
granuleId	int	References the numeric indentifier for the granule defined in the AmGranule table.			X
objectId	int	References the numeric indentifier for the object definition in the DlHdfObjects table.			X
bandId	int	Refers to the numeric identifier for the band definition in DlHdfBands.			
fieldId	int	References the numeric indentifier for the field definition in the DlHdfFields table.			

66 Table DIFileSystems

66.1 Description

Contains the file system information for Data Pool.

66.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
fileSystemLabel	varchar(10)	Label used to indicate which file system the collection belongs to. The primary key.	X		X
absoluteFileSystemPath	varchar(255)	The absolute path includes the FTP root path and the file system path.			X
fileSystemPath	varchar(255)	The file system portion of the absolute path.			
freeSpaceMB	int	The amount of space which the Cleanup utility has to clear before resetting the freeSpaceFlag.			X
availabilityFlag	char(1)	Flag indicates whether the file system is available. Values: Y: file system available (default) N: file system is unavailable			X
availabilityFlagLastUpdate	datetime	The last time that the availabilityFlag was updated.			
freeSpaceFlag	char(1)	Flag indicates whether there's any space available in the file system. Values: Y: space is available on the file system N: no space is available on the file system			X
freeSpaceFlagLastUpdate	datetime	The last time that the freeSpaceFlag was updated.			
insertTime	datetime	The timestamp of the last row insert.			X
ingestStatus	varchar(30)	Indicates the status of the file system with respect to the ability to ingest new granules. Values: ACTIVE SUSPENDED SUSPENDEDBYOPERATOR			
insertStatus	varchar(30)	Similar to ingestStatus, but with respect to DPAD rather than DPL Ingest. Values: ACTIVE SUSPENDED SUSPENDEDBYOPERATOR			
lastUpdate	datetime	The timestamp of the last row update.			
fileSystemID	numeric(9)	The identifying number for a file system.			X

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
consumedSpace	tinyint	Percentage of a file system that is in use.			
freeSpaceChecked	datetime	The last time the free space in the file system was checked.			
freeSpaceGB	int	The free space in the file system in gigabytes.			X

66.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
DlFileSystemsFileSystemIDIdx	X				

66.4 Index DlFileSystemsFileSystemIDIdx

66.4.1 Index columns for DlFileSystemsFileSystemIDIdx

Code	*Sort*
fileSystemID	Ascending

67 Table DlFtpAccessLog

67.1 Description

A temporary table used by the Data Pool Access Statistic Utility. It contains entries for each Data Pool file access which appears in the FTP log.

67.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
directoryPath	varchar(255)	Path Name of the granule files relative to the Data Pool root directory.			X
fileName	varchar(255)	The file name for a science, metadata or browse file.			X
accessTime	datetime	The time at which the file was accessed through FTP			X
fileSize	numeric(16,0)	The size of the file in Data Pool.			X
transferTime	int	Total transfer time in seconds.			
specialActionFlag	char(2)	This flag will determine the format of the file. Valid values: CT: compressed & tar UT: uncompressed & tar T: tar _: no action			
ipAddress	char(15)	The IP address of the user.			X
domainName	varchar(255)	The domain name of the client.			

67.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
DlFtpAccessLogIdx		X			

67.4 Index DlFtpAccessLogIdx

67.4.1 Index columns for DlFtpAccessLogIdx

Code	*Sort*
fileName	Ascending

68 Table DlGranuleAccess

68.1 Description

Contains information used for running Data Pool access statistic reports.

68.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
id	numeric	Primary key.	X		X
dbId	ID	The unique ID which identifies the granule.			X
accessType	varchar(10)	The type of access log for this process. Values: FTP: any ftp access http: any web access			X
age	int	The difference between the time at which the file was accessed through FTP or Web and the time at which the file was inserted into Data Pool.			X
fileSize	numeric(16,0)	The size of the file in Data Pool.			X
fileType	varchar(10)	The type of file. Values: BROWSE SCIENCE METADATA BROWSELINK			
fileName	varchar(255)	The file name for a science, metadata or browse file.			
accessTime	datetime	The time at which the file was accessed through FTP or http.			X
ecsId	ID	The unique ID which identifies the granule. It matches the GranuleId in the inventory tables.			
transferTime	int	Total transfer time in seconds.			
specialActionFlag	char(2)	This flag will determine the format of the file. Valid values: CT: compressed & tar UT: uncompressed & tar T: tar _: no action			
ipAddress	char(15)	The IP address of the user.			X
domainName	varchar(255)	The domain name of the client.			

68.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
DlGranuleAccessdbIdIdx					

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
DlGranuleAccessAccTime Idx					

68.4 Index DlGranuleAccessdbIdIdx

68.4.1 Index columns for DlGranuleAccessdbIdIdx

Code	*Sort*
dbId	Ascending

68.5 Index DlGranuleAccessAccTimeIdx

68.5.1 Index columns for DlGranuleAccessAccTimeIdx

Code	*Sort*
accessType	Ascending
dbId	Ascending

69 Table DlGranuleExpirationPriority

69.1 Description

Contains the expiration date and retention priority for each granule in Data Pool.

69.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
granuleId	ID	Primary key.	X	X	X
expirationDate	datetime	Date of when the granule expired.			X
retentionPriority	int	Priority of the granule in the Data Pool database. Values: 1 to 255			X

70 Table DlGranuleHdfObjectsXref

70.1 Description

Contains the band subset information for a granule.

70.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
granuleId	ID	The unique ID which identifies the granule.		X	
objectId	ID	Unique identifier for a HDF-EOS object.		X	X
bandId	ID	Unique identifier for the 3rd dimension in a field in a HDF-EOS object.		X	
dimId	ID	Unique identifier for the 4th dimension in a field in a HDF-EOS object.		X	
fieldId	ID	Id of the field in the HDF-EOS object.		X	

70.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
DlGranHdfObjXrefGIdObjIdIdx					

70.4 Index DlGranHdfObjXrefGIdObjIdIdx

70.4.1 Index columns for DlGranHdfObjXrefGIdObjIdIdx

Code	*Sort*
granuleId	Ascending
objectId	Ascending

71 Table DlGranuleSubscription

71.1 Description

Cross-reference table table that links granules with spatial subscriptions.

71.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
subId	int	The ID of a subscription that caused the insertion of the granule in the Data Pool. This is a cross-reference to the Spatial Subscription Server database.	X		X
dbId	ID	The unique ID which identifies the granule.	X		X

72 Table DlHdf4thDimensions

72.1 Description

Contains the 4th dimension information of a HDF object.

72.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
dimId	ID	Unique identifier for the 4th dimension in a field in a HDF-EOS object.	X		X
dimName	varchar(255)	Name of the 4th dimension in the field.			X
dimSize	int	Size of the 4th dimension in the field.			X

73 Table DlHdfBands

73.1 Description

Contains the HDF band information.

73.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
bandId	ID	Unique identifier for the 3rd dimension in a field in a HDF-EOS object.	X		X
fieldName	varchar(255)	Name of the field in the HDF-EOS object.			
bandName	varchar(255)	Name of the 3rd dimension in a field.			X
bandSize	int	Size of the 3rd dimension in a field.			X

74 Table DlHdfFields

74.1 Description

Contains the HDF field information.

74.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
fieldId	ID	Id of the field in the HDF-EOS object.	X		X
fieldName	varchar(255)	Name of the field in the HDF-EOS object.			X

75 Table DlHdfObjects

75.1 Description

Contains the HDF object information.

75.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
objectId	ID	Unique identifier for a HDF-EOS object.	X		X
objectName	varchar(255)	The name of a HDF object.			X
objectType	varchar(60)	The type of a HDF object Values: S: Swath G: Grid			X

76 Table DIHEGExceptionCollXref

76.1 Description

Stores the available exception for HEG options for each ESDT.

76.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
collectionId	ID	Identifier for each collection.	X	X	X
exceptionId	int	Unique identifier for a HEG exception.	X	X	X

77 Table DIHEGExceptions

77.1 Description

Stores a list of HEG exceptions base on the specific option.

77.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
exceptionId	int	Unique identifier for a HEG exception.	X		X
formatId	int	Identifier for a HEG's format option.			
projectionId	int	Identifier for HEG projection.			
subsetId	int	Identifier for HEG subsetting option.			
resamplingId	int	Identifier for HEG resampling option.			
subsamplingId	int	Identifier for HEG sub sampling.			
stitchingId	int	Identifier for HEG stitching.			
resolutionId	int	Identifier for HEG resolution option.			
exceptionType	char(1)	Value to indicate the type of exception. Values: W: warning E: Error			
message	varchar(255)	Warning or Error message for the exception.			

78 Table DIHEGOptionCollXref

78.1 Description

Stores the available static HEG options for each ESDT.

78.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
collectionId	ID	Identifier for each collection.	X	X	X
optionId	int	Unique identifier for a HEG option.	X	X	X
required	char(1)	Value indicating whether the HEG option is required. Values: N: not required (default) A: absolutely required O: required			X

79 Table DIHEGOptionLabel

79.1 Description

Stores the label name for each HEG options.

79.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
optionId	int	Unique identifier for a HEG option.	X	X	X
labelName	varchar(80)	Label name for the HEG Option that uses to display on the Web Access GUI.			X

80 Table DIHEGOptions

80.1 Description

Stores all HEG options relate to format, projections, and subsetting.

80.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
optionId	int	Unique identifier for a HEG option.	X		X
optionType	varchar(20)	Type of HEG Option. Values: Format, Projection, Subsetting, Resampling, Subsampling, Stitching, Resolution			X
optionName	varchar(80)	Name of the HEG option.			X

81 Table DlInsertActionQueue

81.1 Description

Contains Data Pool insert actions that have been queued up by the Spatial Subscription Server or by the Batch Insert Utility.

81.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
insQueueId	ID	Uniquely identifies the queue entry.	X		X
ecsId	ID	The unique ID which identifies the granule. It matches the GranuleId in the inventory tables.			
ShortName	char(8)	Same as the ShortName of the collection the granule belongs to. Included from AmCollection to avoid the join.			
VersionId	tinyint	Same as the VersionId of the collection the granule belongs to. Included from AmCollection to avoid the join.			
subId	int	The ID of a subscription that caused the insertion of the granule in the Data Pool. This is a cross-reference to the Spatial Subscription Server database.			
retentionPriority	int	Priority of the granule. Values: 1-255			
retentionPeriod	int	The retention period associated with this subscription.			
metadataOnlyFlag	char(1)	The flag indicates whether the action is for inserting only a metadata file for that granule, not the granule science files. Values: Y: Insert the metadata file only N: Insert science granule files and metadata file			
enqueueTime	datetime	The time at which the action was queued.			X
completionTime	datetime	The time that the action was completed. It contains the value NULL until the action status is either DONE or FAILED.			
retryCount	int	Counts the number of retries for the action.			
status	varchar(20)	The current status of the action. Values: NULL: the action was not yet processed COMPLETE: the action is done FAILED: the action is failed RETRY: the action is retried NOTINIT: the action is not initiated CANCELED: the action was canceled by the operator			
statusDetail	varchar(255)	Detailed explanation of the status.			

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
inCacheFlag	char(1)	Indicates if the process is handling a granule that must be read off tape or whether the granule is in AMASS cache. Values: Y: the granule is in cache (default) N: the granule is on tape			X
actionSource	char(2)	Indicates the process that inserted the row into the table. Note that batchLabel may also be needed to determine the source precisely. Values: B: Batch Insert S: Subscription O: OMS request N: NDPIU I: Ingest R: Registration			
dispatchPriority	smallint	Dispatch priority for a granule in the queue.			
xmlFileName	varchar(255)	Location of the xml file for Non-ECS granules.			
themeId	ID	The unique ID that identifies a data pool theme.			
batchLabel	varchar(16)	Batch label that is associated with a batch insert. For online archive migration, the batchLabel will be 'Migration'.			
archiveHost	varchar(60)	Indicates which archive host to use for copying the file into Data Pool.			
tapeLabel	varchar(60)	Indicates which tape to use.			
requestId	varchar(10)	Request ID from OMS.			
requestSuspendFlag	char(1)	Flag indicating whether the request is suspended.			
processState	char(1)	The current state of processing of a request. Values: R: marked for retrieval P: picked up by driver S: suspended C: completed F: failed X: canceled			

81.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
DlIAQprocessStateIdx					
DlIAQecsIdIdx					
DlIAQxmlFileNameIdx					
DlIAQblblAsrcPstaIdx					

81.4 Index DlIAQprocessStateIdx

81.4.1 Index columns for DlIAQprocessStateIdx

Code	*Sort*
processState	Ascending

81.5 Index DlIAQecsIdIdx

81.5.1 Index columns for DlIAQecsIdIdx

Code	*Sort*
ecsId	Ascending

81.6 Index DlIAQxmlFileNameIdx

81.6.1 Index columns for DlIAQxmlFileNameIdx

Code	*Sort*
xmlFileName	Ascending

81.7 Index DlIAQblblAsrcPstaIdx

81.7.1 Index columns for DlIAQblblAsrcPstaIdx

Code	*Sort*
batchLabel	Ascending
actionSource	Ascending
processState	Ascending

82 Table DlLogicalLock

82.1 Description

Used as a mutex for the deletion of granules. In order to delete a single granule, one must first update this table. While this table is locked, other deletion requests must wait.

82.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
logicalLock	smallint	Used as a mutex for the deletion of granules.			

83 Table DlOMSGranules

83.1 Description

Contains all the granules that are come from OMS requests.

83.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
ecsId	ID	The unique ID which identifies the granule. It matches the GranuleId in the inventory tables.	X		X
owner	char(1)	The owner that holds the mutex for this granule. Values: O: in use by OMS C: in use by DPL cleanup D: in use by DPAD N: in use by NDPIU Q: in use by QAUU U: in use by the unpublish utility			X
granuleType	char(2)	The two characters used to identify the type of granule. Values: SC: science granule BR: browse granule			
lockId	varchar(255)	A user string provided by OMS when locking and unlocking a granule to ensure that the granule is locked and unlocked by the same owner.			
lastUpdate	datetime	The timestamp of the last row update.			

83.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
DlOMSGranLockIdIdx					

83.4 Index DlOMSGranLockIdIdx

83.4.1 Index columns for DlOMSGranLockIdIdx

Code	*Sort*
lockId	Ascending

84 Table DIPrivateCollection

84.1 Description

Granules in an collection identified in this table can not be published. For granules that have been deleted from the Data Pool database but are still registered with OGC Web Services, OWS.

84.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
ShortName	char(8)	The ShortName of the collection.	X		X
VersionId	tinyint	The VersionId of the collection.	X		X

85 Table DlProcAttributes

85.1 Description

Contains the static configuration attributes read by the Data Pool stored procedures.

85.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
procName	varchar(30)	The name of the stored procedure.	X		X
attributeName	varchar(30)	The name of the attribute which is use to look up its value.	X		X
charValue	varchar(255)	The value of the parameter which has data type of character.			
intValue	int	The value of the parameter which has data type of integer.			
floatValue	float	The value of the parameter which has data type of float.			

86 Table DIRecoveryParameters

86.1 Description

Contains information about the various parameters and its values to be used in Data Pool Cleanup Utility.

86.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
utilityName	varchar(40)	Name of the utility.	X		X
parameterName	varchar(50)	Name of the parameter.	X		X
parameterValue	varchar(255)	The value of the parameter.			X

87 Table DlRestoreOlaFilesFromTape

87.1 Description

Used to track the process of restoring a file from tape.

87.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
seqno	numeric(8)	Primary key.	X		X
ShortName	char(8)	The ShortName of the collection.			
VersionId	tinyint	The VersionId of the collection.			
granuleId	numeric(16)	The unique ID which identifies the granule.			
isOrderOnly	char(1)	It indicates whether a granule is public or hidden, on order or not (DataPool.) Y: order only granule H: hidden granule B: public and on order NULL: public only			
versionNumber	int	The suffix used to rename the root filename in case of duplicates (DataPool.)			
fileType	varchar(10)	The type of file. Values: BROWSE SCIENCE METADATA BROWSELINK			
dplFileName	varchar(255)	Name of the file in the DataPool.			
dplDirectoryPath	varchar(255)	Name of the directory path in the DataPool.			
ecsFileName	varchar(255)	Name of the file in the Inventory database.			
ecsDirectoryPath	varchar(255)	Name of the directory path in the Inventory database.			
mediaId	varchar(12)	Identifies the tape where the file is stored.			
startBlockNumber	numeric(16)	Position on the tape where the file begins.			
fileSize	int	The size of the file in Data Pool.			
checksumType	varchar(16)	The type of checksum that was performed.			
checksum	varchar(128)	The checksum value.			
status	varchar(20)	Status of the restore. Values: Initialized, Copied, Checksummed, Complete, Failed			
statusDetail	varchar(255)	Detailed explanation of the status.			
requestId	numeric(8)	The request ID in DlRestoreRequests.		X	X

87.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
xRestoreOlaRequestId					
xRestoreOlaDplFile					
xRestoreOlaMediaId					

87.4 Index xRestoreOlaRequestId

87.4.1 Index columns for xRestoreOlaRequestId

Code	*Sort*
requestId	Ascending

87.5 Index xRestoreOlaDplFile

87.5.1 Index columns for xRestoreOlaDplFile

Code	*Sort*
granuleId	Ascending
dplFileName	Ascending
dplDirectoryPath	Ascending

87.6 Index xRestoreOlaMediaId

87.6.1 Index columns for xRestoreOlaMediaId

Code	*Sort*
mediaId	Ascending
startBlockNumber	Ascending

88 Table DlRestoreOlaLock

88.1 Description

Used as a mutex when updating restore request information.

88.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
myLock	int	Used as a mutex when updating restore request information.	X		X

89 Table DlRestoreRequests

89.1 Description

Used to store requests to restore a file from tape or vice versa.

89.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
requestId	numeric(8)	Primary key.	X		X
type	varchar(20)	The type of restore being requested. Values: RestoreOlaFromTape RestoreTapeFromOla			X
commandLine	varchar(255)	Command line parameters for the request.			X
status	varchar(20)	Status of the restore. Values: New, Initialized, Complete, Failed, CompleteWithErrors, Aborted			X
startTime	datetime	Timestamp the restore was dispatched.			X
finishTime	datetime	Timestamp the restore finished.			

90 Table DlRestoreTapeFilesFromOla

90.1 Description

Used to track the process of restoring tape files from the online archive.

90.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
seqno	numeric(8)	Primary key.	X		X
ShortName	char(8)	The ShortName of the collection.			
VersionId	tinyint	The VersionId of the collection.			
granuleId	numeric(16)	The unique ID which identifies the granule.			
isOrderOnly	char(1)	It indicates whether a granule is public or hidden, on order or not (DataPool.) Y: order only granule H: hidden granule B: public and on order NULL: public only			
versionNumber	int	The suffix used to rename the root filename in case of duplicates (DataPool.)			
fileType	varchar(10)	The type of file. Values: BROWSE SCIENCE METADATA BROWSELINK			
dplFileName	varchar(255)	Name of the file in the DataPool.			
dplDirectoryPath	varchar(255)	Name of the directory path in the DataPool.			
ecsFileName	varchar(255)	Name of the file in the Inventory database.			
ecsDirectoryPath	varchar(255)	Name of the directory path in the Inventory database.			
newEcsFileName	varchar(80)	If the files need to be restored to a new location, this field holds the new filename.			
newEcsDirectoryPath	varchar(255)	If the files need to be restored to a new location, this field holds the new path.			
mediaId	varchar(12)	Identifies the tape where the file is stored.			
fileSize	int	The size of the file in Data Pool.			
checksumType	varchar(16)	The type of checksum that was performed.			
checksum	varchar(128)	The checksum value.			
status	varchar(20)	Status of the restore. Values: Initialized, Copied, Checksummed, Complete, Failed			
statusDetail	varchar(255)	Detailed explanation of the status.			

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
requestId	numeric(8)	The request ID in DlRestoreRequests.		X	X
volumeGroupType	char(1)	Records whether the indicated volume group is a "primary" (P) location for the file or "backup" (B) volume group for the file.			

90.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
xRestoreTapeRequestId					
xRestoreTapeDplFile					

90.4 Index xRestoreTapeRequestId

90.4.1 Index columns for xRestoreTapeRequestId

Code	*Sort*
requestId	Ascending

90.5 Index xRestoreTapeDplFile

90.5.1 Index columns for xRestoreTapeDplFile

Code	*Sort*
granuleId	Ascending
dplFileName	Ascending
dplDirectoryPath	Ascending

91 Table DlTempGrans

91.1 Description

Used by the Data Pool Cleanup Utility for the temporary storage of granuleIds that are passed in through the -file parameter.

91.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
granuleId	ID	The unique ID which identifies the granule.	X		X

92 Table DlTempPhantoms

92.1 Description

Used as temporary work space to store the names of phantom files. It is populated from a flat file using the Sybase Bulk Copy Utility.

92.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
directoryPath	varchar(255)	Path Name of the granule files relative to the Data Pool root directory.			X
fileName	varchar(255)	The file name for a science, metadata or browse file.			X

92.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
DlTempPhantomsDirFileNameIdx					

92.4 Index DlTempPhantomsDirFileNameIdx

92.4.1 Index columns for DlTempPhantomsDirFileNameIdx

Code	*Sort*
directoryPath	Ascending
fileName	Ascending

93 Table DIXMLFilesToInsert

93.1 Description

Holds Non-ECS granule data for the Batch Insert utility.

93.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
processId	int	Unix process id for the utility.	X		X
xmlFileName	varchar(255)	Location of the XML file for non-ECS granules.	X		X
ShortName	char(8)	The ShortName of the collection.			
VersionId	tinyint	The VersionId of the collection.			

94 Table DsDeDictionaryAttribute

94.1 Description

Maintains the system level data dictionary and provides a mechanism for processing validation rules.

94.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
attributeID	ID	The unique ID which identifies a dictionary attribute used to validate a metadata attribute during ESDT insertion.	X		X
contentID	ID	The unique ID which identifies the dictionary content.		X	X
qualifiedAttrName	varchar(255)	The fully qualified ECS attribute name, including all of the GlParameter list components.			X
type	varchar(15)	The encoded value used to depict the basetype of a particular ESDT. For example 'SC' corresponds to Science.			
length	int	The maximum character length (digits) of a attribute. Used in attribute valids processing.			
seqNum	int	The sequence number of the dictionary attribute.			
seqType	int	The type of sequence.			
operator	varchar(255)	The type of attribute validation operation to be applied when checking input attribute checking. Values: NONE, Range, Match, and Expression.			
optionalIndicator	tinyint	Used to indicate whether a specific qualifiedGroupName or qualifiedAttrName is optional or not. Optional = 0, required = 1.			
maxOccurances	smallint	Reserved for future use.			
glType	char(10)	The internal ECS GlParameter Data Classname. Values: GlDateP, GlLongP, GlTimeP, GlPointP, GlCircleP, GlDoubleP, GlStringP, GlGPolygonP, GlRectangleP.			
psaIndicator	tinyint	Flag indicating if an attribute is a Product Specific Attribute.			

94.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
xDsDeDictionaryAttribute	X				

94.4 Index xDsDeDictionaryAttribute

94.4.1 Index columns for xDsDeDictionaryAttribute

Code	*Sort*

Code	*Sort*
qualifiedAttrName	Ascending

95 Table DsDeDictionaryContent

95.1 Description

Maintains the system level metadata for the data dictionary. It facilitates the data dictionary level processing.

95.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
contentID	ID	The unique ID which identifies the dictionary content.	X		X
qualifiedGroupName	varchar(255)	The fully qualified ECS metadata group name, including all of the GlParameter list components.			X
numLevels	smallint	The number of levels within a specific DsDeDictionaryContent qualifiedGroupName.			
numAttribs	smallint	The number of attributes within a specific GlParameter group name in the DsDeDictionaryContent table.			
skips	tinyint	This column is reserved for future functionality.			
numMultiples	smallint	This column is not currently used.			
containerIndicator	tinyint	Indicates whether the qualified group name in the same table is a container group. A container group is a meta data attribute that contains other groups or attributes.			
optionalIndicator	tinyint	Used to indicate whether a specific qualifiedGroupName or qualifiedAttrName is optional or not. Optional = 0, required = 1.			

95.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
xDsDeDictionaryContent	X				

95.4 Index xDsDeDictionaryContent

95.4.1 Index columns for xDsDeDictionaryContent

Code	*Sort*
qualifiedGroupName	Ascending

96 Table DsDeDictionaryRule

96.1 Description

Maintains the system level data dictionary and provides a mechanism for storing validation rules for each attribute.

96.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
attributeID	ID	The unique ID which identifies a dictionary attribute used to validate a metadata attribute during ESDT insertion.	X	X	X
sequenceNo	int	The sequence of this attribute rule relative to other rules for that attribute.	X		X
ruleText	varchar(255)	The actual attribute valid value used in conjunction with a given operator to validate the value of an input attribute value. Example: DayNightFlag - Match(D), where D is the ruleText.			X

97 Table DsDeECSKeywordValids

97.1 Description

Stores the validation rules for the hierarchical relationship among the ECS Keyword stack. Each row in this table corresponds to a valid combination of the values in the ECS attributes: ECSDisciplineKeyword, ECSTopicKeyword, ECSTermKeyword, ECSVariableKeyword, ECSParameterKeyword.

97.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
disciplineKeywordId	ID	The unique identifier for a discipline keyword.	X		X
disciplineKeyword	varchar(80)	The specific attribute valid value corresponding to the ECSDisciplineKeyword attribute for a given ECS keyword stack entry.			X
topicKeyword	varchar(80)	Used to validate the ECSKeyword stack hierachy corresponding to the ECSKeywordTopic attribute.			X
termKeyword	varchar(80)	Used to check the ECSKeyword stack hierarchy that corresponds to the ECSTermKeyword column.			X
variableKeyword	varchar(80)	Used to validate the ECSKeyword stack hierarchy that corresponds to the ECSVariableKeyword attribute.			
parameterKeyword	varchar(80)	Stores the parameter keyword value Discipline, Topic, Term, Variable, Parameter hierarchy for validation purposes.			

98 Table DsGeESDTConfiguredType

98.1 Description

Maintains the ESDT level installation data, one row per ESDT Version.

98.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
configuredName	varchar(20)	The name identifying an installable object within the AIM Inventory. This is usually the ShortName of an ESDT.	X		X
versionID	tinyint	Stores the version number of the collection (domain is from 1 to 255). Refer to technical paper 420-EMD-001 for more information.	X		X
description	varchar(255)	The ESDT description.			
descriptorFileNameBase	varchar(80)	The ESDT descriptor file name.			
dllFileName	varchar(80)	The file name of the ESDT's dynamic link library file.			
spatialSearchType	varchar(40)	Spatial representation of a granule. Values: Orbit Point GPolygon Rectangle NotSupported Unknown			X
esdtState	varchar(32)	The current state of the ESDT.			X
dataFormat	varchar(32)	Identifiies the file format used for granules of the ESDT. This value is used to create a file extension (if necessary) for the data file during Ingest.			
lastUpdate	DsTMdModDate	Timestamp of the last row update.			
platformInstrumentCode	tinyint	An artificially derived unique identifier in the DsMdPlatInstrCode table.			

99 Table DsMdAcvuTmp

99.1 Description

Stores granule files info for current ACVU run.

99.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
granuleId	ID	The granuleId of the granule associated with the file.	X		X
fileName	varchar(80)	The name of the file being verified.	X		X
granuleType	char(2)	The type of the granule.	X		X
filePath	varchar(80)	The file path name of a granule's file stored within the archive.			X
mediaId	varchar(32)	Indicates the tape mediaId.			X
blockLocation	numeric(16)	Granule file block location information.			X
ChecksumVerification Status	char(1)	The checksum verification status. Values: N: checksum not calculated or checksum calculated but not verified P: checksum verification passed F: checksum verification failed			X
NewChecksumOrigin	varchar(64)	Contains the desired new checksum origin when using the ACVU to modify the checksum origin. Should be used with caution.			
NewChecksumType	varchar(64)	Contains the desired new checksum type when using the ACVU to modify the checksum type for a granule. Should be used with caution.			

99.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
idx_acvutmpstatus					

99.4 Index idx_acvutmpstatus

99.4.1 Index columns for idx_acvutmpstatus

Code	*Sort*
ChecksumVerificationStatus	Ascending

100 Table DsMdAdditionalAttributes

100.1 Description

Identifies the product specific attributes (i.e. attributes used to describe the unique characteristics of the collection which extend beyond those defined in this model.)

100.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
attributeId	int	The unique ID which identifies an additional attribute (product specific attribute supplied by a data provider).	X		X
AdditionalAttributeName	varchar(40)	Stores the unique name of the Additional Attribute to be shared by all ECS collections. Refer to technical paper 420-EMD-001 for more information.			X
AdditionalAttributeDescription	varchar(255)	Stores a short discription of the Additional Attribute. Refer to technical paper 420-EMD-001 for more information.			X
AdditionalAttributeDataType	char(10)	Stores the type of data (int, varchar, float, date, datetime, time) of the Additional Attribute. Refer to technical paper 420-EMD-001 for more information.			X
ParameterUnitsOfMeasure	varchar(20)	Optionally stores more detailed description of an Additional Attribute when it refers to a specific measurement. Refer to technical paper 420-EMD-001 for more information.			
ParameterRangeBegin	varchar(40)	This attribute provides the minimum value of a parameter over the entire collection.			
ParameterRangeEnd	varchar(40)	This attribute provides the maximum value of a parameter over the entire collection.			
ParameterValueAccuracy	varchar(30)	Optionally stores more detailed description of an Additional Attribute when it refers to a specific measurement. Refer to technical paper 420-EMD-001 for more information.			
ValueAccuracyExplanation	varchar(255)	Stores information about the accuracy of the value store in the additional attribute. Refer to technical paper 420-EMD-001 for more information.			
MeasurementResolution	varchar(30)	Optionally stores more detailed description of an Additional Attribute when it refers to a specific measurement. Refer to technical paper 420-EMD-001 for more information.			

100.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
xDsMdAdditionalAttributes	X				

100.4 Index xDsMdAdditionalAttributes

100.4.1 Index columns for xDsMdAdditionalAttributes

Code	*Sort*
AdditionalAttributeName	Ascending

101 Table DsMdBmgtAlerts

101.1 Description

Holds information for granules that were not processed by BMGT due to errors.

101.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
exportType	varchar(10)	Indicates the type of BMGT cycle.	X		X
cycleId	numeric(16)	Unique identifier for BMGT packages.			
itemListPath	varchar(255)	The file system path to a file that contains a list of granules which were not exported due to the alert.			

102 Table DsMdBmgtAuditStats

102.1 Description

Stores audit trail statistics for each BMGT package by productType and groupName.

102.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
cycleId	numeric(16)	Unique identifier for BMGT packages.	X	X	X
groupName	varchar(12)	Indicates which BMGT group this ESDT belongs to.	X		X
productType	char(1)	Indicates the type of BMGT product. Values: G (METG), C (METC), U (METU), V (METV), B (BBR), L (BulkURL), H (VISIBILITY).	X		X
status	varchar(22)	The status of BMGT products for each cycle.			X
statusDetail	varchar(255)	Status description for BMGT products.			
numInserts	int	Number of inserted granules or collections.			X
numUpdates	int	Number of updated granules or collections.			X
numDeletes	int	Number of deleted granules or collections.			X
numSkipped	int	Number of skipped granules or collections.			X

103 Table DsMdBmgtBBR

103.1 Description

Stores browse granule dbIDs processed by each BMGT manual cycle.

103.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
cycleId	numeric(16)	Unique identifier for BMGT packages.	X	X	X
dbID	ID	The unique ID which identifies a database tuple.	X		X

104 Table DsMdBmgtConfig

104.1 Description

Stores global configuration parameters for BMGT.

104.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
ConfigID	NUMERIC(16)	Unique identifier for BMGT global configuration parameters.			X
ParameterName	varchar(50)	The name of the parameter.	X		X
ParameterType	char(1)	Indicates whether this parameter should have a string value or integer value.			X
ParameterDescription	varchar(255)	The description of BMGT global configuration parameters.			
IntValue	int	Integer value for BMGT global config parameters.			
CharValue	varchar(255)	String value for BMGT global configuration parameters.			
DynamicFlag	char(1)	Indicates whether or not this BMGT global configuration parameter should show up on the BMGT GUI.			X

105 Table DsMdBmgtCycleEvents

105.1 Description

Stores browse granules, science granules, collections and valids events processed by each BMGT automatic cycle.

105.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
cycleId	numeric(16)	Unique identifier for BMGT packages.	X		X
dbID	ID	The unique ID which identifies a database tuple.	X		X
eventTime	datetime	The timestamp of an event.	X		X
eventKey	numeric(16)	Identity column (surrogate key).	X		X
eventType	char(10)	The type of event that happened.	X		X
browseId	ID	The unique ID which identifies the browse granule.	X		X
ShortName	char(8)	The collection ShortName (of the collection the granule belongs to, if not a collection related table.)			
VersionID	tinyint	The collection VersionID (of the collection the granule belongs to, if not a collection related table.)			
internalFileName	varchar(80)	The ECS generated internal file name for granule files within the archive.			

105.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
idx_cycleeventsdbid					

105.4 Index idx_cycleeventsdbid

105.4.1 Index columns for idx_cycleeventsdbid

Code	*Sort*
dbID	Ascending
eventType	Ascending

106 Table DsMdBmgtCycleQAEvents

106.1 Description

Stores QA update events for each BMGT automatic cycle.

106.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
cycleId	numeric(16)	Unique identifier for BMGT packages.	X		X
dbID	ID	The unique ID which identifies a database tuple.	X		X
eventTime	datetime	The timestamp of an event.	X		X
parameterName	varchar(80)	The name of parameters in QA update.	X		X
QAPercentMissingData	int	The quality percentage for missing data.			
QAPercentOutOfBoundsData	int	The quality percentage for out of bounds data.			
QAPercentInterpolatedData	int	The quality percentage for interpolated data.			
QAPercentCloudCover	int	The quality percentage for cloud cover.			
AutomaticQualityFlag	varchar(64)	Automatic Quality value for the granule.			
AutomaticQualityFlagExplan	varchar(255)	Explanation for how to figure out the automatic quality value.			
OperationalQualityFlag	varchar(20)	Operational quality flag value for a measured parameter.			
OperationalQualityFlagExplan	varchar(255)	Explanation for the operational quality flag.			
ScienceQualityFlag	varchar(25)	ScienceQuality Flag for a measured parameter.			
ScienceQualityFlagExplan	varchar(255)	Explanation of the Science Quality Flag.			

107 Table DsMdBmgtEchoErrorPolicy

107.1 Description

Stores the policy that will be used by BMGT to handle the errors reported on the Ingest Summary Report.

107.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
errorType	varchar(30)	Indicates the category of the error.	X		X
errorCode	varchar(60)	Error code defined in ticket BE_7F_01 to be used by BMGT as part of ECHO error handle policy.	X		X
errorDescription	varchar(255)	Description for this error.			X
BMGTResponse	varchar(60)	How BMGT should respond to this error.			X

108 Table DsMdBmgtGroupConfig

108.1 Description

Stores BMGT group configuration file information prior to its last cycle.

108.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
ShortName	char(8)	The collection ShortName (of the collection the granule belongs to, if not a collection related table.)	X		X
VersionID	tinyint	The collection VersionID (of the collection the granule belongs to, if not a collection related table.)	X		X
groupName	varchar(12)	Indicates which BMGT group this ESDT belongs to.			X
granuleExportFlag	char(1)	Indicates whether or not this ESDT is enabled for granule export to ECHO.			X
collectionExportFlag	char(1)	Indicates whether or not this ESDT is enabled for collection export to ECHO. Values: Y or N			X
lastUpdateVerified	datetime	Granule's lastUpdate verified for this ESDT in the last incremental BMGT verification.			X
maxNumGrans	int	Maximum number of granules can be verified in BMGT incremental verification for this ESDT.			X
numVerified	int	Number of granules in the ESDT that has been verified via BMGT incremental verification.			X
totalGrans	int	Total number of granules in this ESDT.			X

109 Table DsMdBmgtIngestRptStats

109.1 Description

Stores Ingest summary report browse, granule, and collection statistics for each BMGT cycle.

109.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
cycleId	numeric(16)	Unique identifier for BMGT packages.	X	X	X
statisticsType	char(1)	Indicates the statistics are for browse, granule, or collection for each cycle. Values: G: granule B: browse C: collection	X		X
numInserts	int	Number of inserted granules or collections.			X
numUpdates	int	Number of updated granules or collections.			X
numDeletes	int	Number of deleted granules or collections.			X
numRejects	int	Number of rejected granules or collections.			X
numErrorIgnored	int	Number of errors reported on Ingest Summary Report that are ignored according to BMGT ECHO error policy.			X
numErrorReExported	int	Number of errors reported on Ingest Summary Report that are re-exported according to BMGT ECHO error policy.			X
numErrorNotHandled	int	Number of errors reported on Ingest Summary Report that are not handled according to BMGT ECHO error policy.			X
numReplaced	int	Number of granules have been updated by ECHO in verification package.			X

110 Table DsMdBmgtInputGrans

110.1 Description

Stores a list of user requested granules.

110.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
dbID	ID	The unique ID which identifies a database tuple.			X
ShortName	varchar(8)	The collection ShortName (of the collection the granule belongs to, if not a collection related table.)			
VersionID	tinyint	The collection VersionID (of the collection the granule belongs to, if not a collection related table.)			

110.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
idx_bmgtinputgrandbid		X			

110.4 Index idx_bmgtinputgrandbid

110.4.1 Index columns for idx_bmgtinputgrandbid

Code	*Sort*
dbID	Ascending

111 Table DsMdBmgtLock

111.1 Description

Stores information about which BMGT automatic cycle is currently running.

111.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
lockName	varchar(10)	The exportType of BMGT cycle that is currently being processed by the auto preprocessor.	X		X
cycleId	numeric(16)	Unique identifier for BMGT packages.			X
exportType	varchar(15)	Indicates the type of BMGT cycle.			X

112 Table DsMdBmgtMETG

112.1 Description

Stores science granule information processed by the BMGT METG product in both automatic and manual runs.

112.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
cycleId	numeric(16)	Unique identifier for BMGT packages.	X	X	X
dbID	ID	The unique ID which identifies a database tuple.	X		X
eventType	char(10)	The type of event that happened.	X		X

113 Table DsMdBmgtPkgCycles

113.1 Description

Stores information about all BMGT packages.

113.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
cycleId	numeric(16)	Unique identifier for BMGT packages.	X		X
packageId	int	Assigned sequence number for BMGT packages.			X
startDateTime	datetime	The start time and date for a cycle.			
endDateTime	datetime	The end datetime range for BMGT cycles.			
exportType	varchar(15)	Indicates the type of BMGT cycle.			X
currentExportStatus	varchar(30)	Current status for BMGT packages. Values: NEW, STARTED, PRODUCT_GENERATED, PRODUCT_GENERATE_FAILED, PACKAGE_GENERATED, PACKAGE_GENERATE_FAILED, TRANSFERRING, WAITING_TO_RETRANSMIT, EXPORTED, CANCELLING, CANCELED, COMPLETE, COMPLETE_WITH_ERRORS, SKIPPED, PACKAGE_RETRANSMIT, PRODUCT_REGENERATE			X
internalStatus	char(1)	It is used to store an internal state for a BMGT cycle. Values: A: Active G: Generated P: Packaged E: Exported C: Clean D: Done			
exclusiveFlag	char(1)	Used to indicate whether or not this export operation is exclusive, i.e. it will prevent the execution of another automatic or manual export operation.			X
deleteFlag	char(1)	Indicates whether this is an insert or delete run for a BMGT manual cycle. Values: Y: delete run N: insert run			X
lastUpdate	datetime	Timestamp of the last update for this row.			X

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
echoIngestFlag	char(1)	Indicates whether or not this export package is being exported for ingest into ECHO. Values: 'Y' or 'N'.			X
packageDirectoryName	varchar(255)	The directory into which all package files will be placed. This is a complete path name.			
daacPackageIdentifier	varchar(40)	An optional string value that may be provided by the DAACs. This value will be used in generating some of the package filenames.			
productsRequired	varchar(8)	This indicates which products should be generated. It is a string that contains a number of characters. Each character indicates a product should be generated, as follows: G (METG), C (METC), U (METU), V (METV), B (BBR), L (BulkURL), H (VISIBILITY).			
productGenStartTime	datetime	The start time for the generation of a specific BMGT product.			
productGenStopTime	datetime	The completion time for the generation of a specific BMGT product.			
exportStartTime	datetime	The time at which the export server started transmitting the package to ECHO. If the package is not being exported, this will never be set.			
exportStopTime	datetime	The time at which the export server completed transmitting the package to ECHO. If the package is not being exported, this will never be set.			
reportReceivedTime	datetime	The time at which an ingest summary report was received from ECHO. If the package is not being exported, this will never be set.			
reportFileName	varchar(80)	The filename of the ingest summary report. Note that this is just the file name. The directory path is configurable. If the DAACs change the configuration of the directory, it is assumed that they will also move all current ingest summary reports to the new location. If the package is not being exported, this will never be set.			
exportRetryEmailSent	char(1)	This is used to indicate whether a warning email has been sent indicating that the export of a package has failed and been retried a configured number of times. Note that the export server will continue to attempt delivery of the package, even if this email has been sent.			X
exportDelayEmailSent	char(1)	This is used to indicate whether a warning email has been sent indicating that the export of a package has not begun within a configured time interval after starting generation of the package.			X

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
reportDelayEmailSent	char(1)	This is used to indicate whether or not a warning email has been send indicating that an ingest summary report has not been received from ECHO within a configurable time interval after successful completion of package export. Values: Y or N			X
ftpRetryCount	int	The number of attempts to export the package to ECHO.			X
echoProcessTime	datetime	The date that the job started in ECHO. This is normally when the input files were first detected by ECHO and the job was queued for processing by the ECHO system.			
numBrowseFileXrefed	int	Number of browse files that have been transferred to ECHO.			X
totalNumBrowseFiles	int	Total number of browse files in each BMGT cycle.			X
packageRetransmitCount	int	The maximum number of times a BMGT package could be re-transmitted.			X
productRegenerateCount	int	The maximum number of times a BMGT product could be re-generated.			X
generatorRetryCount	int	The maximum number of times the BMGT genertor server could retry.			X

113.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
idx_cyclecurrentexportstatus					
idx_cyclepackageid					

113.4 Index idx_cyclecurrentexportstatus

113.4.1 Index columns for idx_cyclecurrentexportstatus

Code	*Sort*
currentExportStatus	Ascending
exportType	Ascending
internalStatus	Ascending

113.5 Index idx_cyclepackageid

113.5.1 Index columns for idx_cyclepackageid

Code	*Sort*
packageId	Ascending

114 Table DsMdBmgtReExportQueue

114.1 Description

Stores science and browse granules that BMGT needs to re-export to ECHO.

114.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
queueId	numeric(16)	The row identifier for granules in DsMdBmgtReExportQueue table.			X
dbID	ID	The unique ID which identifies a database tuple.	X		X
ShortName	char(8)	The collection ShortName (of the collection the granule belongs to, if not a collection related table.)	X		X
VersionID	tinyint	The collection VersionID (of the collection the granule belongs to, if not a collection related table.)	X		X
granuleType	char(2)	The type of the granule.	X		X
cycleId	numeric(16)	Unique identifier for BMGT packages.			X
origCycleId	numeric(16)	Indicates the cycleId in DsMdBmgtPkgCycles for the granule that has the error.			X
echoError	varchar(40)	Error reported on Ingest Summary Report.			X
action	varchar(3)	Indicates whether it's insert or delete.			X

114.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
idx_reexportqueueciddbid					
idx_reexportqueuecidsnvi					

114.4 Index idx_reexportqueueciddbid

114.4.1 Index columns for idx_reexportqueueciddbid

Code	*Sort*
cycleId	Ascending
dbID	Ascending

114.5 Index idx_reexportqueuecidsnvi

114.5.1 Index columns for idx_reexportqueuecidsnvi

Code	*Sort*
cycleId	Ascending
ShortName	Ascending
VersionID	Ascending

115 Table DsMdBmgtWrkCollections

115.1 Description

Stores ESDTs from a user input file or the command line for each BMGT manual run.

115.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
cycleId	numeric(16)	Unique identifier for BMGT packages.	X	X	X
ShortName	char(8)	The collection ShortName (of the collection the granule belongs to, if not a collection related table.)	X		X
VersionID	tinyint	The collection VersionID (of the collection the granule belongs to, if not a collection related table.)	X		X

116 Table DsMdBmgtWrkGranules

116.1 Description

Stores both science granule and browse granule information from a user input file or the command line for each BMGT manual run.

116.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
cycleId	numeric(16)	Unique identifier for BMGT packages.	X	X	X
dbID	ID	The unique ID which identifies a database tuple.	X		X
ShortName	char(8)	The collection ShortName (of the collection the granule belongs to, if not a collection related table.)			
VersionID	tinyint	The collection VersionID (of the collection the granule belongs to, if not a collection related table.)			

116.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
idx_wrkgransnviciddbid					

116.4 Index idx_wrkgransnviciddbid

116.4.1 Index columns for idx_wrkgransnviciddbid

Code	*Sort*
ShortName	Ascending
VersionID	Ascending
cycleId	Ascending
dbID	Ascending

117 Table DsMdBmgtWrkGroups

117.1 Description

Stores BMGT group configuration file information for each BMGT cycle.

117.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
cycleId	numeric(16)	Unique identifier for BMGT packages.	X	X	X
groupName	varchar(12)	Indicates which BMGT group this ESDT belongs to.	X		X
ShortName	char(8)	The collection ShortName (of the collection the granule belongs to, if not a collection related table.)	X		X
VersionID	tinyint	The collection VersionID (of the collection the granule belongs to, if not a collection related table.)	X		X
granuleExportFlag	char(1)	Indicates whether or not this ESDT is enabled for granule export to ECHO.			X
collectionExportFlag	char(1)	Indicates whether or not this ESDT is enabled for collection export to ECHO. Values: Y or N			X
oldGranuleExportFlag	char(1)	Indicates whether or not this ESDT is enabled for granule export in a previous BMGT cycle.			X
oldCollectionExportFlag	char(1)	Indicates whether or not this ESDT is enabled for collection export in a previous BMGT cycle.			X

118 Table DsMdBrowseLock

118.1 Description

Facilitates the single threading Browse Granule inserts.

118.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
myLock	int	Integer value of the lock in the Mutex table.	X		X

119 Table DsMdChecksumOrigins

119.1 Description

Contains a list of the known providers of checksum information.

119.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
ChecksumOriginID	tinyint	Identifier for where the checksum value was obtained.	X		X
ChecksumOrigin	varchar(64)	This string contains the name of a valid ECS checksum provider.			X

120 Table DsMdChecksumTypes

120.1 Description

Contains a list of the checksum algorithms supported by ECS.

120.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
ChecksumTypeID	tinyint	Identifier for a checksum algorithm.	X		X
ChecksumType	varchar(64)	The type of checksum that was performed.			X

121 Table DsMdCollectionAddnlAttribsXref

121.1 Description

Contains the cross-reference between collections and additional attributes.

121.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
collectionId	ID	The unique ID which identifies the collection. Foreign key from AmCollection.	X	X	X
attributeId	int	The unique ID which identifies an additional attribute (product specific attribute supplied by a data provider).	X	X	X

121.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
xDsMdCollectionAddnlAttribsXrf					

121.4 Index xDsMdCollectionAddnlAttribsXrf

121.4.1 Index columns for xDsMdCollectionAddnlAttribsXrf

Code	*Sort*
attributeId	Ascending

122 Table DsMdDAR

122.1 Description

Stores all DAR identifiers per granule.

122.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
granuleId	ID	The unique ID which identifies the granule.	X	X	X
DAR_ID	int	Identifies the Data Access Request ID associated with the granule.	X		X

123 Table DsMdDeletedGranules

123.1 Description

Holds the information of the granules that have been requested to be marked as deleted or DFAed.

123.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
transactionTime	datetime	Defines a transaction. Each request is a transaction which can involve multiple granules to be marked deleted/DFAed.			
GranuleID	ID	The unique ID which identifies the granule.	X		X
Status	tinyint	The status of delete/undelete granule.			
ShortName	char(8)	The ShortName of the collection.			X
VersionID	tinyint	Stores the version number of the granule (domain is from 1 to 255). Refer to technical paper 420-EMD-001 for more information.			X
insertTime	datetime	The timestamp of the last row insert.			
DFAFlag	tinyint	DeleteFromArchive indicator flag.			
BeginningDateTime	datetime	RangeBeginningDate and RangeBeginningTime combined into a single field; provided for indexing and searching efficiency.			

123.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
xDsMdDeletedGranulesSNmVid					
xDsMdDeletedGranulestTime					

123.4 Index xDsMdDeletedGranulesSNmVid

123.4.1 Index columns for xDsMdDeletedGranulesSNmVid

Code	*Sort*
ShortName	Ascending
VersionID	Ascending

123.5 Index xDsMdDeletedGranulestTime

123.5.1 Index columns for xDsMdDeletedGranulestTime

Code	*Sort*

Code	*Sort*
transactionTime	Ascending

124 Table DsMdGeometryValidation

124.1 Description

This table is used to temporarily store a geodetic polygon by the XML services component during the validation phase of Ingest. If the insert is successful then the GPOLYGON is valid.

124.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
id	int	Not really used. It just creates a column other than the spatial column in the table.	X		X
GPolygonContainer	gpolygon	The column name of type Gpolygon within the DsMdGeometryValidation table.			X

125 Table DsMdGranuleRestriction

125.1 Description

Stores a list of granules that are restricted at ECHO and/or to be published in DPL.

125.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
granuleId	ID	The unique ID which identifies the granule.	X	X	X
RestrictionFlag	tinyint	It indicates the restriction level at ECHO. Valid values are between 1 and 255.		X	X
UnpublishFlag	char(1)	Valid values are: Y: it indicates that this granules can not be published in DPL N: it indicates that this granules can be published in DPL			X
LastUpdate	datetime	The timestamp of the last row update.			X

126 Table DsMdGrBoundingRectangle

126.1 Description

Contains area coverage as an LL_BOX for a granule.

126.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
granuleId	ID	The unique ID which identifies the granule.	X	X	X
BoundingRectangle	llbox	The geographic extent of rectangular region included in granule or collection.			X
primaryCollectionId	ID	The collectionId of the primary collection for a group of granules.			

126.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
xDsMdGrBoundingRectangle		X			

126.4 Index xDsMdGrBoundingRectangle

126.4.1 Index columns for xDsMdGrBoundingRectangle

Code	*Sort*
BoundingRectangle	Ascending

127 Table DsMdGrCircle

127.1 Description

Identifies the characteristics required to specify the area coverage for a granule as a circle consisting of latitude center, longitude center, radius units, and radius value.

127.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
granuleId	ID	The unique ID which identifies the granule.	X	X	X
BoundingCircle	char(255)	The geographic extent of circular region included in granule or collection.			X
RadiusUnits	char(10)	Currently not used, but intended to store the units (meters, feet) of the radius of a Granule when it's spatial area is described as a circle (instead of gpolygon, bounding rectangle, or orbit). Refer to technical paper 420-EMD-001 for more information.			
primaryCollectionId	ID	The collectionId of the primary collection for a group of granules.			

127.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
xDsMdGrCircle		X			

127.4 Index xDsMdGrCircle

127.4.1 Index columns for xDsMdGrCircle

Code	*Sort*
BoundingCircle	Ascending

128 Table DsMdGrEventDomain

128.1 Description

This table is prepopulated with a fixed number of update events.

128.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
eventId	smallint	The unique identifier of an event.	X		X
eventName	varchar(50)	The name of an event for which a subscription may be made.			X

129 Table DsMdGrEventHistory

129.1 Description

Keeps history on the time a particular event happened on a particular science granule, browse granule, and collection.

129.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
eventKey	numeric(16)	Identity column (surrogate key).	X		X
dbID	ID	The unique ID which identifies a database tuple.			X
eventTime	datetime	The timestamp of an event.			X
eventId	smallint	The unique identifier of an event.		X	X
eventType	char(10)	The type of event that happened.			
browseId	ID	Foreign key from AmBrowse.			
ShortName	char(8)	The ShortName of the collection.			
VersionID	tinyint	Stores the version number of the granule (domain is from 1 to 255). Refer to technical paper 420-EMD-001 for more information.			
internalFileName	varchar(80)	The ECS generated internal file name for granule files within the archive.			

129.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
xDsMdGrEventHistoryIdTime					
xDsMdGrEventHistoryTimeIdDBID					
xDsMdGrEventHistoryDBID					

129.4 Index xDsMdGrEventHistoryIdTime

129.4.1 Index columns for xDsMdGrEventHistoryIdTime

Code	*Sort*
eventId	Ascending
eventTime	Ascending

129.5 Index xDsMdGrEventHistoryTimeIdDBID

129.5.1 Index columns for xDsMdGrEventHistoryTimeIdDBID

Code	*Sort*

Code	*Sort*
eventTime	Ascending
eventId	Ascending
dbID	Ascending

129.6 Index xDsMdGrEventHistoryDBID

129.6.1 Index columns for xDsMdGrEventHistoryDBID

Code	*Sort*
dbID	Ascending

130 Table DsMdGrGPolygon

130.1 Description

Identifies the characteristics required to specify the area coverage for a collection as a polygon consisting of multiple points expressed by latitude and longitude values in clockwise order.

130.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
granuleId	ID	The unique ID which identifies the granule.	X	X	X
GPolygonContainer	gpolygon	The column name of type Gpolygon within the DsMdGrGPolygon table.			X
primaryCollectionId	ID	The collectionId of the primary collection for a group of granules.			

130.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
xDsMdGrPolygon		X			

130.4 Index xDsMdGrPolygon

130.4.1 Index columns for xDsMdGrPolygon

Code	*Sort*
GPolygonContainer	Ascending

131 Table DsMdGrPoint

131.1 Description

Identifies the characteristics required to specify the area coverage for a collection as a single point expressed by latitude and longitude.

131.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
granuleId	ID	The unique ID which identifies the granule.	X	X	X
PointLocation	char(255)	(Latitude, Longitude) location.			X
primaryCollectionId	ID	The collectionId of the primary collection for a group of granules.			

131.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
xDsMdGrPoint		X			

131.4 Index xDsMdGrPoint

131.4.1 Index columns for xDsMdGrPoint

Code	*Sort*
PointLocation	Ascending

132 Table DsMdGrQaUpdateHistory

132.1 Description

Keeps a record of the measured parameter values temporarily during the QA update. BMGT uses it to transfer the data to the appropriate BMGT table.

132.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
dbID	ID	The unique ID which identifies a database tuple.	X	X	X
eventTime	datetime	The timestamp of an event.	X		X
ParameterName	varchar(80)	The name of the parameter.	X		X
QAPercentMissingData	int	The quality percentage for missing data.			
QAPercentOutOfBoundsData	int	The quality percentage for out of bounds data.			
QAPercentInterpolatedData	int	The quality percentage for interpolated data.			
QAPercentCloudCover	int	The quality percentage for cloud cover.			
AutomaticQualityFlag	varchar(64)	Automatic Quality value for the granule.			
AutomaticQualityFlagExplan	varchar(255)	Explanation for how to figure out the automatic quality value.			
OperationalQualityFlag	varchar(20)	Operational quality flag value for a measured parameter.			
OperationalQualityFlagExplan	varchar(255)	Explanation for the operational quality flag.			
ScienceQualityFlag	varchar(25)	ScienceQuality Flag for a measured parameter.			
ScienceQualityFlagExplan	varchar(255)	Explanation of the Science Quality Flag.			

133 Table DsMdIdentifier

133.1 Description

Contains the next available system generated unique identifier. There is a separate row in this table to generate identifiers for the DsMdAnalysisSource, DsMdCampaign, DsDeDictionaryAttribute, DsMdAdditionalAttributes and DsMdPlanarCoordinateSystems tables. There is also another row used to generate identifiers for DsMdCollections and DsMdGranules tables. Each row in this table is padded out to the 2K page size to minimize locking contention on a per row basis.

133.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
identifierType	char(30)	The data type of the identifier for which the DsMdIdentifier row exists.	X		X
identifierObjectType	char(30)	The name or type of the AIM Inventory database object for which the DsMdIdentifier row exists.	X		X
lastIdentifier	ID	The next available unique identifier available of type ID for a specific IdentifierObjectType.			X
lastIntIdentifier	int	The next available unique identifier available of type integer for a specific IdentifierObjectType.			X
lastSmallIntIdentifier	smallint	The next available unique identifier available of type smallint for a specific IdentifierObjectType.			X
identifierPad1	char(255)	One of seven columns (identifierPad1 through identifierPad7) of type char(255) used to pad each row in the DsMdIdentifier table to the 2K page size.			X
identifierPad2	char(255)	One of seven columns (identifierPad1 through identifierPad7) of type char(255) used to pad each row in the DsMdIdentifier table to the 2K page size.			X
identifierPad3	char(255)	One of seven columns (identifierPad1 through identifierPad7) of type char(255) used to pad each row in the DsMdIdentifier table to the 2K page size.			X
identifierPad4	char(255)	One of seven columns (identifierPad1 through identifierPad7) of type char(255) used to pad each row in the DsMdIdentifier table to the 2K page size.			X
identifierPad5	char(255)	One of seven columns (identifierPad1 through identifierPad7) of type char(255) used to pad each row in the DsMdIdentifier table to the 2K page size.			X
identifierPad6	char(255)	One of seven columns (identifierPad1 through identifierPad7) of type char(255) used to pad each row in the DsMdIdentifier table to the 2K page size.			X
identifierPad7	char(255)	One of seven columns (identifierPad1 through identifierPad7) of type char(255) used to pad each row in the DsMdIdentifier table to the 2K page size.			X

134 Table DsMdMisrAttributes

134.1 Description

Stores orbitNumber, pathNo, and productVersion information for MISR science and browse granules.

134.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
granuleId	ID	The unique ID which identifies the granule.	X	X	X
orbitNumber	int	Orbit number for MISR granules			
pathNo	smallint	Identifies a satellite ground track. For more information refer to technical paper 160-TP-014-001.			
productVersion	int	Product version of MISR granules.			
type	char(1)	The encoded value used to depict the basetype of a particular ESDT. For example 'SC' corresponds to Science.			X

134.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
idx_misrorbitno					

134.4 Index idx_misrorbitno

134.4.1 Index columns for idx_misrorbitno

Code	*Sort*
orbitNumber	Ascending
type	Ascending
pathNo	Ascending

135 Table DsMdMisrBrowseGranuleXref

135.1 Description

Stores MISR science granules to MISR browse granules linkage information.

135.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
granuleId	ID	The unique ID which identifies the granule.	X	X	X
browseId	ID	Foreign key from AmBrowse.		X	X

135.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
idx_misrbrowsegranxrefbid					

135.4 Index idx_misrbrowsegranxrefbid

135.4.1 Index columns for idx_misrbrowsegranxrefbid

Code	*Sort*
browseId	Ascending
granuleId	Ascending

136 Table DsMdMisrCamera

136.1 Description

Stores cameraId information for MISR granules.

136.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
granuleId	ID	The unique ID which identifies the granule.	X	X	X
cameraId	varchar(20)	Camera Identifier for MISR granules.	X		X

137 Table DsMdMisrMutex

137.1 Description

Stores mutex lock information for MISR science and browse granules.

137.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
myLock	int	Integer value of the lock in the Mutex table.	X		X

138 Table DsMdMisrProcessingCriteria

138.1 Description

Stores configured MISR science and browse ESDTs that will be processed by IIU, NDPIU, and BMGT.

138.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
ShortName	char(8)	The ShortName of the collection.	X		X
VersionID	tinyint	Stores the version number of the collection (domain is from 1 to 255). Refer to technical paper 420-EMD-001 for more information.	X		X
type	char(1)	The encoded value used to depict the basetype of a particular ESDT. For example 'SC' corresponds to Science.			X

139 Table DsMdNextAvailableID

139.1 Description

Stores next available packageId that will be used by BMGT.

139.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
IntKeyName	varchar(30)	The name of the column whose next available value is stored in IntKeyValue.	X		X
IntKeyValue	int	Next available integer key value.			X

140 Table DsMdOrbitCalculatedSpatial

140.1 Description

Used to store the MISR orbit granule data for a platform and instrument combination for the orbit calculated spatial domain.

140.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
granuleId	ID	The unique ID which identifies the granule.	X	X	X
PathNo	smallint	Identifies a satellite ground track. For more information refer to technical paper 160-TP-014-001.	X		X
StartBlock	smallint	The value of the StartingPolygonNumber, the SP_ICE_GLAS_StartBlock or the SP_AM_MISR_StartBlock PSA.	X		X
EndBlock	smallint	The value of the EndingPolygonNumber, the SP_ICE_GLAS_EndBlock, or the SP_AM_MISR_EndBlock PSA.			X
platInstCode	tinyint	The ID of an entry in the DsMdPlatInstrCode table applicable to an orbit polygon.	X		X

140.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
xDsMdOrbitCalculatedSpatial		X			

140.4 Index xDsMdOrbitCalculatedSpatial

140.4.1 Index columns for xDsMdOrbitCalculatedSpatial

Code	*Sort*
granuleId	Ascending

141 Table DsMdOrbitPolygons

141.1 Description

Contains a series of orbit polygons for a platform and instrument combination.

141.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
platInstCode	tinyint	The ID of an entry in the DsMdPlatInstrCode table applicable to an orbit polygon.	X	X	X
PathNo	smallint	Identifies a satellite ground track. For more information refer to technical paper 160-TP-014-001.	X		X
SequenceNo	smallint	The sequence of the polygon for an orbit granule.	X		X
Orbit	char(255)	The specific orbit number of a Orbit Polygon.			X

141.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
xDsMdOrbitPolygons		X			

141.4 Index xDsMdOrbitPolygons

141.4.1 Index columns for xDsMdOrbitPolygons

Code	*Sort*
Orbit	Ascending
platInstCode	Ascending
PathNo	Ascending
SequenceNo	Ascending

142 Table DsMdPendingDeleteXmlOlaFile

142.1 Description

This table is used by the EcDsDeletionCleanup.pl utility. It holds the list of Metadata files in the Online Archive and the XML (small files) Archive that need to be deleted. It also holds a list of "data" files in the Online Archive that need to be deleted. The table will be populated and cleaned up by EcDsDeletionCleanup.pl. If a file can't be deleted by the utility it will be left in the table after the completion of the utility.

142.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
GranuleId	ID	The unique ID which identifies the granule.	X		X
FileName	varchar(200)	The name of the file.			X
FilePath	path	Stores the directory of the Online Archive or XML archive file to delete. Used by EcDsDeletionCleanup.			X
FileType	varchar(8)	Stores the type (SCIENCE or METADATA) of the files to delete in the Online Archive and the XML Archive. Used by EcDsDeletionCleanup.			X
OnlineFlag	char(1)	This flag indicates the file is located in the online archive (when "Y") or in the XML archive (when "N").			X
Stage	varchar(50)	Indicates the stage of processing for the deletion of the file.			
Status	varchar(24)	Stores the current status of the "physical" deletion of a files from the Online Archive and XML Archive.			
InsertTime	datetime	The timestamp of the last row insert.			

143 Table DsMdPlatInstrCode

143.1 Description

Contains resolution information for platform and instrument combination.

143.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
platformInstrumentCode	tinyint	An artificially derived unique identifier in the DsMdPlatInstrCode table.	X		X
platformShortName	varchar(20)	Stores the name of the satellite platform associated with a specified "Orbit" set of reference polygons.			X
instrumentName	varchar(80)	The InstrumentShortName used to determine platform/instrument specific Orbit Polygon.			X

144 Table DsMdQaPhDapLock

144.1 Description

Facilitates single threading of QA/PH/DAP granule inserts.

144.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
myLock	int	Integer value of the lock in the Mutex table.	X		X

145 Table DsMdRestrictionFlag

145.1 Description

Defines the restriction codes.

145.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
RestrictionFlag	tinyint	It indicates the restriction level at ECHO. Valid values are between 1 and 255.	X		X
Description	varchar(255)	The description for RestrictionFlag.			
LastUpdate	datetime	The timestamp of the last row update.			X

146 Table DsMdScienceLock

146.1 Description

Facilitates single threading of Science granule inserts.

146.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
myLock	int	Integer value of the lock in the Mutex table.	X		X

147 Table DsMdStagingTable

147.1 Description

Used to store the information of the deleted/DFAed granules.

147.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
dbID	ID	The unique ID which identifies a database tuple.			X
DFAFlag	tinyint	DeleteFromArchive indicator flag.			
ShortName	char(8)	The ShortName of the collection.			X
VersionID	tinyint	Stores the version number of the collection (domain is from 1 to 255). Refer to technical paper 420-EMD-001 for more information.			X
insertTime	datetime	The timestamp of the last row insert.			
internalFileName	varchar(80)	The ECS generated internal file name for granule files within the archive.			X
BeginningDateTime	datetime	RangeBeginningDate and RangeBeginningTime combined into a single field; provided for indexing and searching efficiency.			

147.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
xDsMdStagingTableIFN	X	X			
xDsMdStagingTableSnm					

147.4 Index xDsMdStagingTableIFN

147.4.1 Index columns for xDsMdStagingTableIFN

Code	*Sort*
internalFileName	Ascending

147.5 Index xDsMdStagingTableSnm

147.5.1 Index columns for xDsMdStagingTableSnm

Code	*Sort*
ShortName	Ascending
dbID	Ascending

148 Table DsMdUnDeletedGranules

148.1 Description

Contains all the granules that qualify for undelete during the run of AIM Inventory Granule Deletion Utility.

148.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
transactionTime	datetime	Defines a transaction. Each request is a transaction which can involve multiple granules to be marked deleted/DFAed.			
GranuleID	ID	The unique ID which identifies the granule.	X		X
Status	tinyint	The status of delete/undelete granule.			
ShortName	char(8)	The ShortName of the collection.			X
VersionID	tinyint	Stores the version number of the collection (domain is from 1 to 255). Refer to technical paper 420-EMD-001 for more information.			X
insertTime	datetime	The timestamp of the last row insert.			
DFAFlag	tinyint	DeleteFromArchive indicator flag.			

148.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
xDsMdUnDeletedGranulestTime					

148.4 Index xDsMdUnDeletedGranulestTime

148.4.1 Index columns for xDsMdUnDeletedGranulestTime

Code	*Sort*
transactionTime	Ascending

149 Table DsMdXMLPath

149.1 Description

Stores the pathnames for each pathid listed in DsMdXMLFile.

149.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
ArchivePathId	numeric(16)	The unique id of the path.	X		X
path	varchar(255)	Stores the fully qualified directory path where a set of granule XML files are stored.			X

150 Table DsMgBulkData

150.1 Description

Used to receive bcp data, which in turn is used to update certain information in DsMgFileState.

150.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
granuleId	numeric(16)	The unique ID which identifies the granule.	X		X
FileName	varchar(80)	The name of the file.	X		X
PathId	numeric(5)	A numeric ID corresponding to a path name.			
MediaId	varchar(12)	Identifies the tape where the file is stored.			
IndexNumber	numeric(16)	A numeric value representing the position of the file on tape.			
MigrateFlag	char(1)	Indicates whether this file needs to be migrated to the LTO library. 'Y' = migrate, 'N' = do not migrate.			
BackupFlag	char(1)	Indicates whether or not this file has been restored from a backup copy of the file. 'Y' for restored from backup, otherwise 'N'.			
processId	numeric(16)	The pid of the process which imported the data.			

150.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
xDsMgBulkDataProcessId Idx					

150.4 Index xDsMgBulkDataProcessIdIdx

150.4.1 Index columns for xDsMgBulkDataProcessIdIdx

Code	*Sort*
processId	Ascending

151 Table DsMgError

151.1 Description

Used to record information about error conditions encountered during online archive migration.

151.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
granuleId	numeric(16)	The unique ID which identifies the granule.	X	X	X
FileName	varchar(80)	The name of the file.			
ErrorCode	char(12)	Error reported on Ingest Summary Report.			X
ErrorMsg	varchar(255)	The error message associated with this granule.			X
ErrorTime	datetime	The date and time when the error was logged.			

152 Table DsMgFilePath

152.1 Description

Used to store directory path information for the files in DsMgFileState.

152.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
PathId	numeric(16)	A numeric ID corresponding to a path name.	X		X
Path	varchar(255)	The full directory name for a group of files.			X

152.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
xDsMgFilePathPathIdx					

152.4 Index xDsMgFilePathPathIdx

152.4.1 Index columns for xDsMgFilePathPathIdx

Code	*Sort*
Path	Ascending

153 Table DsMgFileState

153.1 Description

Used to store information about files needed for online archive migration and to track the progress of the migration.

153.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
granuleId	numeric(16)	The unique ID which identifies the granule.	X	X	X
FileName	varchar(80)	The name of the file.	X		X
State	char(1)	The current state of the processing of the granule or file. Values: N= New, L=Located, S=Staged, X=Checksummed, and C=Complete			X
MediaId	varchar(12)	Identifies the tape where the file is stored.		X	
IndexNumber	numeric(16)	A numeric value representing the position of the file on tape.			
MigrateFlag	char(1)	Indicates whether this file needs to be migrated to the LTO library. 'Y' = migrate, 'N' = do not migrate.			X
PathId	numeric(16)	A numeric ID corresponding to a path name.		X	
BackupFlag	char(1)	Indicates whether or not this file has been restored from a backup copy of the file. 'Y' for restored from backup, otherwise 'N'.			X
Size	int	The size of the file.			X

153.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
xDsMgFileStateStateIdx					
xDsMgFileStateMgFlagIdx					
xDsMgFileStateFileNameIdx					

153.4 Index xDsMgFileStateStateIdx

153.4.1 Index columns for xDsMgFileStateStateIdx

Code	*Sort*
State	Ascending
MediaId	Ascending

153.5 Index xDsMgFileStateMgFlagIdx

Code	*Sort*
MigrateFlag	Ascending

153.6 Index xDsMgFileStateFileNameIdx

153.6.1 Index columns for xDsMgFileStateFileNameIdx

Code	*Sort*
FileName	Ascending

154 Table DsMgGranuleState

154.1 Description

Used to store information about granules needed for online archive migration and to track the progress of the migration.

154.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
granuleId	numeric(16)	The unique ID which identifies the granule.	X		X
State	char(1)	The current state of the processing of the granule or file. Values: N=New, R=Ready (files staged), W=pending DPL insert, I=Inserted into DPL, P=needs publishing, C=Complete, and E=Error.			X
InsertFlag	char(1)	Indicates whether or not the granule needs to be inserted into the Data Pool. Y=insert into DPL, N=do not insert.			X
Priority	tinyint	Used to prioritize data within a specific media.			
QueueId	numeric(16)	The ID of the Action Driver request used to insert this granule into DataPool.			X
granuleType	char(2)	Indicates what kind of granule it is.			X
lastUpdate	datetime	The timestamp of the last row update.			

154.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
xDsMgGranuleStateStateIdx					
xDsMgGranuleStateInsFlagIdx					

154.4 Index xDsMgGranuleStateStateIdx

154.4.1 Index columns for xDsMgGranuleStateStateIdx

Code	*Sort*
State	Ascending
InsertFlag	Ascending
granuleId	Ascending

154.5 Index xDsMgGranuleStateInsFlagIdx

154.5.1 Index columns for xDsMgGranuleStateInsFlagIdx

Code	*Sort*
InsertFlag	Ascending

155 Table DsMgMediaState

155.1 Description

Used to store information about tapes that will be used during online archive migration.

155.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
MediaId	varchar(12)	Identifies the tape where the file is stored.	X		X
State	char(1)	The current state of the processing of the granule or file. Values: N=New, A=Available, U=Unavailable, and C=Complete.			X
Volume	numeric(16)	The volume of data that is to be staged.			
Class	varchar(36)	Stored the Stornext Policy Class associted with indicated tape during the migration of granules to the Online Archive in Release 7.23. Will be removed in a future release.			X
DrivePool	varchar(36)	The name of the drive pool used to access this media.			X
Priority	tinyint	Used to prioritize data within a specific media.			X

155.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
xDsMgMediaStateStateIdx					
xDsMgMediaStateMgDrvPoolIdx					

155.4 Index xDsMgMediaStateStateIdx

155.4.1 Index columns for xDsMgMediaStateStateIdx

Code	*Sort*
State	Ascending

155.5 Index xDsMgMediaStateMgDrvPoolIdx

155.5.1 Index columns for xDsMgMediaStateMgDrvPoolIdx

Code	*Sort*
DrivePool	Ascending

156 Table DsMgStatistic

156.1 Description

Used to store statistics gathered during online archive migration.

156.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
Name	varchar(32)	The unique name of the statistic.	X		X
Value	float	The current value of the statistic.			X
LastUpdate	datetime	The timestamp of the last row update.			X

157 Table DsQAMUTESDTSite

157.1 Description

Allows the system to determine which science site can update the QA flags of which ESDT.

157.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
ShortName	char(8)	The ShortName of the collection.	X		X
Site	varchar(25)	The site of science team that does the QA update.	X		X

158 Table DsQAMUTFatalErrors

158.1 Description

Stores rows that were moved from the DsQAMUTRequestDetail table because they had fatal errors in processing.

158.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
SequenceNo	numeric(9)	The sequence of the polygon for an orbit granule.			X
ShortName	char(8)	The ShortName of the collection.			X
VersionID	tinyint	Stores the version number of the granule (domain is from 1 to 255). Refer to technical paper 420-EMD-001 for more information.			X
dbID	numeric(16)	The unique ID which identifies a database tuple.			X
LGID	varchar(80)	Stores the Local Granule ID of the granule being processed.			
ParameterName	varchar(80)	The name of the parameter.			X
FlagName	varchar(11)	Records the name of the QA Flag (Operational or Science) that is being processed / updated by the QA Update Utility.			X
NewQualityFlag	varchar(25)	Stores the new value for the Science Quality or Operational Quality flag.			X
NewQualityFlagExplan	varchar(255)	Stores the new value for the Science Quality Explanation or Operational Quality flag Explanation.			
XmlFilePathArchive	varchar(255)	The fully qualified directory path within the XML Archive for the associated XML File.			X
XmlFileNameArchive	varchar(255)	The name of the XML metadata file within the XML Archive.			X
timeOfFailure	datetime	Indicates the last time the failure of a specific QA update occurred.			

159 Table DsQAMUTParameterNames

159.1 Description

Stores several ParameterNames per dbID when the ParameterName column in the DsQAMUTRequestDetail table is set to 'ALL'.

159.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
dbID	numeric(16)	The unique ID which identifies a database tuple.	X		X
ParameterName	varchar(80)	The name of the parameter.	X		X
QAPercentMissingData	int	The quality percentage for missing data.			
QAPercentOutOfBoundsData	int	The quality percentage for out of bounds data.			
QAPercentInterpolatedData	int	The quality percentage for interpolated data.			
QAPercentCloudCover	int	The quality percentage for cloud cover.			
AutomaticQualityFlag	varchar(64)	Automatic Quality value for the granule.			
AutomaticQualityFlagExplan	varchar(255)	Explanation for how to figure out the automatic quality value.			
OperationalQualityFlag	varchar(20)	Operational quality flag value for a measured parameter.			
OperationalQualityFlagExplan	varchar(255)	Explanation for the operational quality flag.			
ScienceQualityFlag	varchar(25)	ScienceQuality Flag for a measured parameter.			
ScienceQualityFlagExplan	varchar(255)	Explanation of the Science Quality Flag.			

160 Table DsQAMUTRequest_ESDT

160.1 Description

Input table based on the temporal range for the collection.

160.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
SequenceNo	numeric(9)	The sequence of the polygon for an orbit granule.			X
ShortName	char(8)	The ShortName of the collection.			X
VersionID	tinyint	Stores the version number of the collection (domain is from 1 to 255). Refer to technical paper 420-EMD-001 for more information.			X
BeginningDateTime	datetime	RangeBeginningDate and RangeBeginningTime combined into a single field; provided for indexing and searching efficiency.			X
EndingDateTime	datetime	RangeEndingDate and RangeEndingTime combined into a single field; provided for indexing and searching efficiency.			X
ParameterName	varchar(80)	The name of the parameter.			X
QualityFlag	varchar(25)	Stores the value of the flag to be updated within a QA Update Utility request.			X
QualityFlagExplan	varchar(255)	Stores the value of the quality flag explanation to be updated within a QA Update Utility request.			

160.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
xDsQAMUTRequestESDT	X	X			

160.4 Index xDsQAMUTRequestESDT

160.4.1 Index columns for xDsQAMUTRequestESDT

Code	*Sort*
SequenceNo	Ascending

161 Table DsQAMUTRequest_GranuleUR

161.1 Description

Input table based on the individual granule ids.

161.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
SequenceNo	numeric(9)	The sequence of the polygon for an orbit granule.			X
ShortName	char(8)	The ShortName of the collection.			X
VersionID	tinyint	Stores the version number of the granule (domain is from 1 to 255). Refer to technical paper 420-EMD-001 for more information.			X
dbID	numeric(16)	The unique ID which identifies a database tuple.			X
ParameterName	varchar(80)	The name of the parameter.			X
QualityFlag	varchar(25)	Stores the value of the flag to be updated within a QA Update Utility request.			X
QualityFlagExplan	varchar(255)	Stores the value of the quality flag explanation to be updated within a QA Update Utility request.			

161.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
xDsQAMUTRequestUR	X	X			

161.4 Index xDsQAMUTRequestUR

161.4.1 Index columns for xDsQAMUTRequestUR

Code	*Sort*
SequenceNo	Ascending

162 Table DsQAMUTRequest_LGID

162.1 Description

Input table based on the local granule ids.

162.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
SequenceNo	numeric(9,0)	The sequence of the polygon for an orbit granule.			X
ShortName	char(8)	The ShortName of the collection.			X
VersionID	tinyint	Stores the version number of the collection (domain is from 1 to 255). Refer to technical paper 420-EMD-001 for more information.			X
LGID	varchar(80)	Stores the Local Granule ID of the granule being processed.			X
ParameterName	varchar(80)	The name of the parameter.			X
QualityFlag	varchar(25)	Stores the value of the flag to be updated within a QA Update Utility request.			X
QualityFlagExplan	varchar(255)	Stores the value of the quality flag explanation to be updated within a QA Update Utility request.			

162.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
xDsQAMUTRequestLGID	X	X			

162.4 Index xDsQAMUTRequestLGID

162.4.1 Index columns for xDsQAMUTRequestLGID

Code	*Sort*
SequenceNo	Ascending

163 Table DsQAMUTRequestDetail

163.1 Description

The main table used during processing of the QA updates.

163.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
SequenceNo	numeric(9)	The sequence of the polygon for an orbit granule.			X
ShortName	char(8)	The ShortName of the collection.			X
VersionID	tinyint	Stores the version number of the granule (domain is from 1 to 255). Refer to technical paper 420-EMD-001 for more information.			X
dbID	numeric(16)	The unique ID which identifies a database tuple.			X
LGID	varchar(80)	Stores the Local Granule ID of the granule being processed.			
ParameterName	varchar(80)	The name of the parameter.			X
FlagName	varchar(11)	Records the name of the QA Flag (Operational or Science) that is being processed / updated by the QA Update Utility.			X
NewQualityFlag	varchar(25)	Stores the new value for the Science Quality or Operational Quality flag.			X
NewQualityFlagExplan	varchar(255)	Stores the new value for the Science Quality Explanation or Operational Quality flag Explanation.			
XmlFilePathArchive	varchar(255)	The fully qualified directory path within the XML Archive for the associated XML File.			X
XmlFileNameArchive	varchar(255)	The name of the XML metadata file within the XML Archive.			X
statusFlag	char(1)	The processing status of an individual QA update for a granule. Valid values are: 'P' (processing) 'X' (failed XML Archive update) 'C' (failed in copy of XML to DPL) 'D' (failed in DPL DB update)			
timeOfFailure	datetime	Indicates the last time the failure of a specific QA update occurred.			
InvestigateFlag	char(1)	Used to indicate a granule within a QA request failed two times. Once the value is set to 'Y', the granule is no longer processed in future runs. Valid values are just 'Y' and null.			

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
xDsQAMUTRequestDetail xDsQAMUTReqDetaildbid	X	X			

163.4 Index xDsQAMUTRequestDetail

163.4.1 Index columns for xDsQAMUTRequestDetail

Code	*Sort*
SequenceNo	Ascending

163.5 Index xDsQAMUTReqDetaildbid

163.5.1 Index columns for xDsQAMUTReqDetaildbid

Code	*Sort*
dbID	Ascending

164 Table DsQAMUTRequestDetailTmp

164.1 Description

Work table used to populate DsQAMUTRequestDetail.

164.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
ShortName	char(8)	The ShortName of the collection.			X
VersionID	tinyint	Stores the version number of the collection (domain is from 1 to 255). Refer to technical paper 420-EMD-001 for more information.			X
dbID	numeric(16)	The unique ID which identifies a database tuple.			X
LGID	varchar(80)	Stores the Local Granule ID of the granule being processed.			
ParameterName	varchar(80)	The name of the parameter.			X
FlagName	varchar(11)	Records the name of the QA Flag (Operational or Science) that is being processed / updated by the QA Update Utility.			X
NewQualityFlag	varchar(25)	Stores the new value for the Science Quality or Operational Quality flag.			X
NewQualityFlagExplan	varchar(255)	Stores the new value for the Science Quality Explanation or Operational Quality flag Explanation.			

164.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
xDsQAMUTRequestDetailTmp	X	X			

164.4 Index xDsQAMUTRequestDetailTmp

164.4.1 Index columns for xDsQAMUTRequestDetailTmp

Code	*Sort*
dbID	Ascending
ParameterName	Ascending

165 Table DsStPendingDelete

165.1 Description

Used for batch deletion of files from the archive.

165.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
VersionedDataType	datatype	Stores the ESDT (ShortName and VersionId) for each granule to be deleted from AIM.	X		X
Stage	stage	Indicates the stage of processing for the deletion of the file.			
Status	nvarchar(12)	The status of delete/undelete granule.			
ErrorCode	errorcode	Records the unix error code if a file cannot be deleted.			
FileName	filename	The file name for a science, metadata or browse file.	X		X
VolumeGroupId	identityid	A numeric identifier for a volume group.			
ServerId	serverid	No longer used.			
InsertTime	datetime	The timestamp of the last row insert.			
CreationTime	datetime	Records the time the record was written to the DsStPendingDelete table. It indicates when the granule was "physically" deleted.			
BeginningDateTime	datetime	RangeBeginningDate and RangeBeginningTime combined into a single field; provided for indexing and searching efficiency.			
ReprocessingFlag	char(1)	Used to indicate the granule will be in the Reprocessing Volume Group associated with the ESDT during the associated time range.			

165.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
sk_dsstpdstage					

165.4 Index sk_dsstpdstage

165.4.1 Index columns for sk_dsstpdstage

Code	*Sort*
Stage	Ascending

166 Table DsStVolumeGroup

166.1 Description

DsStVolumeGroup stores information for each Volume Group.

166.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
VolumeGroupId	numeric(5)	A numeric identifier for a volume group.	X		X
VersionedDataType	datatype	Used to indicate the ESDT being stored in the Volume Group. This value is created from the ShortName of the collection along with the VersionId.			X
VolumeGroupPath	path	The fully qualified path of the Volume Group / directory.			X
VolumeStartDate	datetime	The date and time the Volume Group was created.			X
VolumeEndDate	datetime	The last time a granule was inserted into VolumeGroup / directory. A null value indicates the directory is currently active (still receiving ingested data.)			
SelectionDate	datetime	Indicates the date on which a forward processing campaign was begun on a collection. Allows granules to be stored in one of two (reprocessing versus forward processing) based upon the granule acquisition time and the selection date.			
ArchiveID	numeric(9)	Unique identifier for archive host in Ingest database InArchive table.			
NumFiles	int	Stores the number of files currently stored in the indicated Volume Group / directory.			X
AutoClose	char(1)	Used to control whether the indicated Volume Group is subject to being managed by Ingest. If equal to "Y" then Ingest will automatically close the volume group and open a new one with the Volume Group reaches the configured maximum number of files.			X

167 Table EcDbDatabaseVersions

167.1 Description

ECS Database version table updated with each build or patch

167.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
EcDbSchemaVersionId	smallint	UID for this DB version.	X		X
EcDbDropVersion	char(64)	Software release identifier.	X		X
EcDbDropDescription	varchar(255)	Comments for this DB version.			
EcDbCurrentVersionFlag	char(1)	Indicates if this is the current DB Schema version.			
EcDbDatabaseName	varchar(255)	Name of database.			
EcDbDropInstallDate	datetime	Date of install.			
EcDbSybaseVersion	varchar(255)	Version of Sybase ASE.			
EcDbSybaseServer	varchar(255)	Sybase server info.			
EcDbComments	varchar(255)	Comments for this database version including NCRs fixed, etc.			
EcDbUpdateProcess	varchar(255)	Info about update process.			

168 Table EMSArch

168.1 Description

An EMS use only table used to process EMS archive information.

168.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
dbID	numeric(16)	The unique ID which identifies a database tuple.			
ShortName	varchar(8)	The ShortName of the collection.			
sizeDataGranule	float	The size of the data granule.			
totalFiles	int	Total number of files.			
insertTime	varchar(18)	The timestamp of the last row insert.			
BeginningDateTime	varchar(18)	RangeBeginningDate and RangeBeginningTime combined into a single field; provided for indexing and searching efficiency.			
EndingDateTime	varchar(18)	RangeEndingDate and RangeEndingTime combined into a single field; provided for indexing and searching efficiency.			
ProductionDateTime	varchar(18)	Stores the time the granule was created by the data provider. Refer to technical paper 420-EMD-001 for more information.			
LocalGranuleID	varchar(80)	Data provider-supplied identifier for a granule that ECS ingests and is required to capture.			
VersionID	tinyint	Stores the version number of the collection (domain is from 1 to 255). Refer to technical paper 420-EMD-001 for more information.			
DeleteFromArchive	char(1)	This indicates different states based on the value. G: the granule was captured during the "golden month" and thus should not be deleted Y: the file is missing from tape (legacy; should go away now with the online archive) H: the granule is "hidden from view" (legacy; should go away now with DsMdGranuleRestriction) N: Do not delete			
deleteEffectiveDate	varchar(18)	Date and time after which the granule may be deleted.			
lastUpdate	varchar(18)	The timestamp of the last row update.			

168.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
extract_idx3		X			

168.4 Index extract_idx3

168.4.1 Index columns for extract_idx3

Code	*Sort*
dbID	Ascending

169 Table EMSArchData

169.1 Description

An EMS use only table used to process EMS archive information.

169.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
dbID	numeric(16)	The unique ID which identifies a database tuple.			
ShortName	varchar(8)	The ShortName of the collection.			
sizeDataGranule	float	The size of the data granule.			
totalFiles	int	Total number of files.			
insertTime	varchar(18)	The timestamp of the last row insert.			
BeginningDateTime	varchar(18)	RangeBeginningDate and RangeBeginningTime combined into a single field; provided for indexing and searching efficiency.			
EndingDateTime	varchar(18)	RangeEndingDate and RangeEndingTime combined into a single field; provided for indexing and searching efficiency.			
ProductionDateTime	varchar(18)	Stores the time the granule was created by the data provider. Refer to technical paper 420-EMD-001 for more information.			
LocalGranuleID	varchar(80)	Data provider-supplied identifier for a granule that ECS ingests and is required to capture.			
VersionID	tinyint	Stores the version number of the collection (domain is from 1 to 255). Refer to technical paper 420-EMD-001 for more information.			
DeleteFromArchive	char(1)	This indicates different states based on the value. G: the granule was captured during the "golden month" and thus should not be deleted Y: the file is missing from tape (legacy; should go away now with the online archive) H: the granule is "hidden from view" (legacy; should go away now with DsMdGranuleRestriction) N: Do not delete			
deleteEffectiveDate	varchar(18)	Date and time after which the granule may be deleted.			
lastUpdate	varchar(18)	The timestamp of the last row update.			

169.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
extract_idx2		X			

169.4 Index extract_idx2

169.4.1 Index columns for extract_idx2

Code	*Sort*
dbID	Ascending

170 Table EMSArchUpdData

170.1 Description

An EMS use only table used to process EMS archive information.

170.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
dbID	numeric(16)	The unique ID which identifies a database tuple.			
ShortName	varchar(8)	The ShortName of the collection.			
sizeDataGranule	float	The size of the data granule.			
totalFiles	int	Total number of files.			
insertTime	varchar(18)	The timestamp of the last row insert.			
BeginningDateTime	varchar(18)	RangeBeginningDate and RangeBeginningTime combined into a single field; provided for indexing and searching efficiency.			
EndingDateTime	varchar(18)	RangeEndingDate and RangeEndingTime combined into a single field; provided for indexing and searching efficiency.			
ProductionDateTime	varchar(18)	Stores the time the granule was created by the data provider. Refer to technical paper 420-EMD-001 for more information.			
LocalGranuleID	varchar(80)	Data provider-supplied identifier for a granule that ECS ingests and is required to capture.			
VersionID	tinyint	Stores the version number of the collection (domain is from 1 to 255). Refer to technical paper 420-EMD-001 for more information.			
DeleteFromArchive	char(1)	This indicates different states based on the value. G: the granule was captured during the "golden month" and thus should not be deleted Y: the file is missing from tape (legacy; should go away now with the online archive) H: the granule is "hidden from view" (legacy; should go away now with DsMdGranuleRestriction) N: Do not delete			
deleteEffectiveDate	varchar(18)	Date and time after which the granule may be deleted.			
lastUpdate	varchar(18)	The timestamp of the last row update.			

170.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
extract_idx		X			

170.4 Index extract_idx

170.4.1 Index columns for extract_idx

Code	*Sort*
dbID	Ascending

171 Table EMSdbid

171.1 Description

An EMS use only table used to process EMS archive information.

171.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
dbID	numeric(16)	The unique ID which identifies a database tuple.			
subType	varchar(30)	The internally created column used to hold the ShortName.			
insertTime	datetime	The timestamp of the last row insert.			
lastUpdate	datetime	The timestamp of the last row update.			
FileCount	int	The File Count associated with the granule.			
BrowseSize	float	Optionally stores the size of the browse granule (in bytes) for use with exporting information to EMS.			
BrowseProductionDateTime	datetime	Optionally stores the time the browse granule was created for use with exporting information to EMS.			
internalFileName	varchar(80)	The ECS generated internal file name for granule files within the archive.			
BeginningDateTime	datetime	RangeBeginningDate and RangeBeginningTime combined into a single field; provided for indexing and searching efficiency.			
EndingDateTime	datetime	RangeEndingDate and RangeEndingTime combined into a single field; provided for indexing and searching efficiency.			

171.3 List of indexes

Code	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
EMSdbid_idx		X			

171.4 Index EMSdbid_idx

171.4.1 Index columns for EMSdbid_idx

Code	*Sort*
dbID	Ascending

172 Table EMSShortNameTemp

172.1 Description

Stores the EMS related temporary data for Esdts.

172.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*ForeignKey*	*Mandatory*
ShortName	char(8)	The ShortName of the collection.			X
LongName	varchar(80)	Stores the name of the ECS Collection (used for exporting data to EMS). Refer to technical paper 420-EMD-001.			
Missions	varchar(500)	Related missions, Aqua, Aura, etc.			
Instruments	varchar(500)	An integrated collection of hardware containing one or more sensors and associated controls designed to produce data on an environment. For a multiinstrument product from one mission, list all instruments separated by a comma (,). If the product is a combined product from multi-missions involving multiple instruments, a group of the instruments from each mission should be separated by a semi-colon (;).			
TopicKeywords	varchar(500)	Keyword that describes the ShortName science area.			
Provider	varchar(50)	The provider of the data.			
fileName	varchar(80)	The name of the file.			
DplOnly	char(1)	Indicates whether the Short Name is DPL only.			

173 Table Mutex

173.1 Description

Used by stored procedure RegisterApplication to facilitate single-threading of application registrations.

173.2 List of columns

Code	*Data Type*	*Description Text*	*Primary*	*Foreign Key*	*Mandatory*
mutex	tinyint	Provides a column to allow multiple processes to coordinate access to resources. Each attempts to modify the column before entering a critical section of code.	X		X

Abbreviations and Acronyms

ADSRV	Advertising Service CSCI
AIM	Archive Inventory Management
ANSI	American National Standards Institute
CASE	Computer Aided Software Engineering
CD	contractual delivery 214-001
CDRL	contract data requirements list
CDS	cell directory service
CI	configuration item
COTS	commercial off-the-shelf (hardware or software)
CSCI	computer software configuration item
CSDT	Computer Science Data Type
CSMS	Communications and Systems Management Segment (ECS)
CSS	Communications Subsystem
DAAC	Distributed Active Archive Center
DBMS	Database Management System
DDICT	Data Dictionary CSCI
DDIST	Data Distribution Services CSCI
DDN	Data Delivery Notice
DID	data item description
DM	Data Management
DMS	Data Management Subsystem
DP	Data Provider
DPS	Data Processing Subsystem
DSS	Data Server Subsystem
ECS	EOSDIS Core System
EDC	EROS Data Center
EDHS	ECS Data Handling System
EDOS	EOS Data and Operations System
EOS	Earth Observing System
EOSDIS	Earth Observing System Data and Information System
EROS	Earth Resources Observation System
ESDIS	Earth Science Data and Information System (GSFC)
ESDT	Earth science data types

FK	Foreign Key
FTP	File Transfer Protocol
GSFC	Goddard Space Flight Center
GUI	graphic user interface
HTML	Hypertext Markup Language
HTTP	Hypertext Transport Protocol
HWCI	Hardware Configuration Item
ICD	interface control document
ID	identification
INGEST	Ingest Services CSCI
IOS	Interoperability Subsystem
IP	Internet Protocol
ISS	Internetworking Subsystem
IV&V	independent verification and validation
LaRC	Langley Research Center (DAAC)
MCF	Metadata Configuration File
MSFC	Marshall Space Flight Center
MSS	Management Support Subsystem
OLA	Online Archive
PDPS	Planning and Data Processing Subsystem
PK	Primary Key
PLANG	Production Planning CSCI
PLS	Planning Subsystem
RPC	Remote Procedure Call
STMGT	Storage Management Software CSCI
SUBSRV	Subscription Server
UR	Universal Reference
WWW	World-Wide Web