311-EED-002, Rev. 02

EOSDIS Evolution and Development (EED) Contract

Release 8.2 Order Manager (OMS) Database Design and Schema Specifications for the EED Contract

Revision 02

September 2013

Raytheon Company
Riverdale, Maryland

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Revision 02

September 2013

Prepared Under Contract NNG10HP02C
CDRL Item # 023

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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.

Any questions should be addressed to:

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Revision History

Document Number	Status/Issue	Publication Date	CCR Number
311-EED-002	Original	March 2011	11-0053
311-EED-002	Revision 01	April 2012	12-0092
311-EED-002	Revision 02	September 2013	13-0225

This document describes the data design and database specification for the Subscription Server subsystem. It is one of eleven 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. 02 — Release 8.2 INGEST (INS) Subsystem Database Design and Schema Specifications for the EOSDIS Evolution and Development (EED) Contract

311-EED-002, Rev. 02 — Release 8.2 Order Manager (OMS) Database Design and Schema Specifications for the EOSDIS Evolution and Development (EED) Contract

311-EED-003, Rev. 02 — Release 8.2 Spatial Subscription Server (SSS) Database Design and Schema Specifications for the EOSDIS Evolution and Development (EED) Contract

311-EED-005, Rev. 02 — Release 8.2 Archive Inventory Management (AIM) Database 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 8.2 “as-built” database design and database schema of the Order Manager Subsystem 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, anddatabase scripts

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Abbreviations and Acronyms

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1. Introduction

1.1 Identification

This Order Manager System (OMS) Database Design and Database Schema Specification document is part of Contract Data Requirements List (CDRL) Item Number 23, which is a required deliverable under the Earth Observing System Data and Information System (EOSDIS) Maintenance and Development (EED) Contract (NNG10HP02C).

1.2 Scope

The OMS Database Design and Database Schema Specification document describes the data design and database specifications to support the data requirements of Release 8.0 Order Manager software and contains the tables from the EcGlobalDb.

1.3 Purpose

The purpose of the OMS Database Design and Database Schema Specification document is to support the maintenance of OMS 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 for 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.

Entity Relationship Diagrams (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.

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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. 02	Release 8.2 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 Postgres Log Mapping/NSIDC
920-TDE-011	DAAC Postgres Log Mapping/EDC
920-TDL-011	DAAC Postgres Log Mapping/LARC
922-TDN-013	Disk Partitions/NSIDC
922-TDL-013	Disk Partitions/LARC

These documents are maintained as part of the ECS 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 ECS 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. 02	Release 8.2 Operations Tools Manual for the EOSDIS Evolution and Development (EED) Contract
611-EED-001, Rev. 02	Release 8.2 Mission Operation Procedures for the EOSDIS Evolution and Development (EED) Contract

These documents are accessible via the EDHS homepage.

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3. Data Design

Please refer to Section 3 of the DSS/AIM 311 document number 311-EED-005, Revision 02.

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4. Performance and Tuning Factors

The PostgreSQL RDBMS was delivered to the DAACs with 3 custom configuration files. Each configuration file is "tuned" for a specific purpose. One configuration file is appropriate for running a small "test" instance, another one is appropriate for doing weekly maintenance activities, and the last file is appropriate for the day to day operations. Please refer to the PostgreSQL documentation for a description of each item within the files.

The standard configuration file used by PostgreSQL will always be a "symbolic link" within the operating system to one of the above three configuration files.

Please refer to Appendix A for a list on indexes and foreign key relationships.

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5. Database Security

SDPS does not impose any security measures beyond the basic features provided by PostgreSQL.

Please refer to the PostgreSQL RDBMS documentation (especially the section on Server Administration) for more information.

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6. Scripts

Please refer to Section 6 of the DSS/AIM 311, document number 311-EED-005, Revision 02.

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Appendix A. Entity Relationship Diagrams

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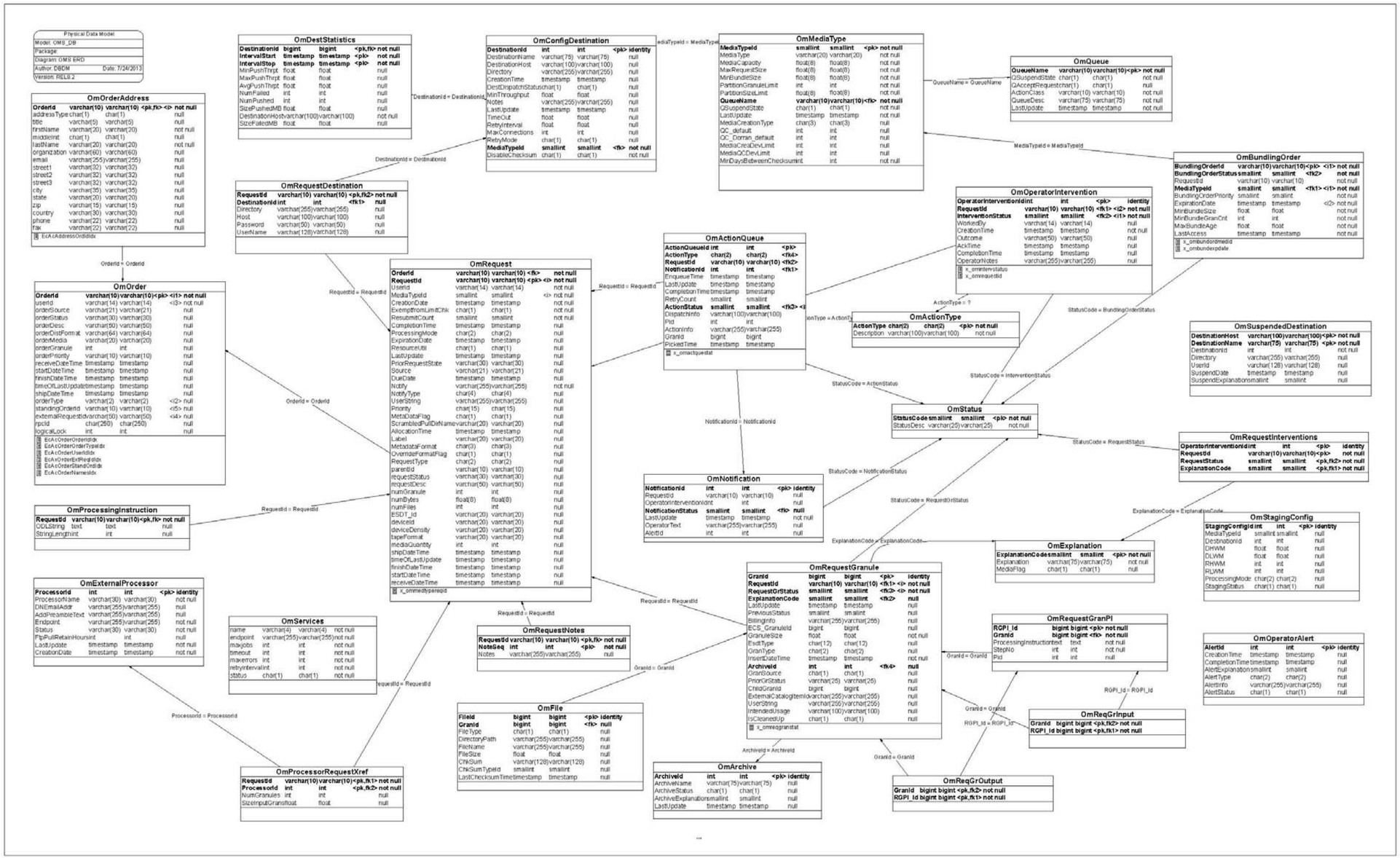

Figure A-1. Order Manager (1 of 2)

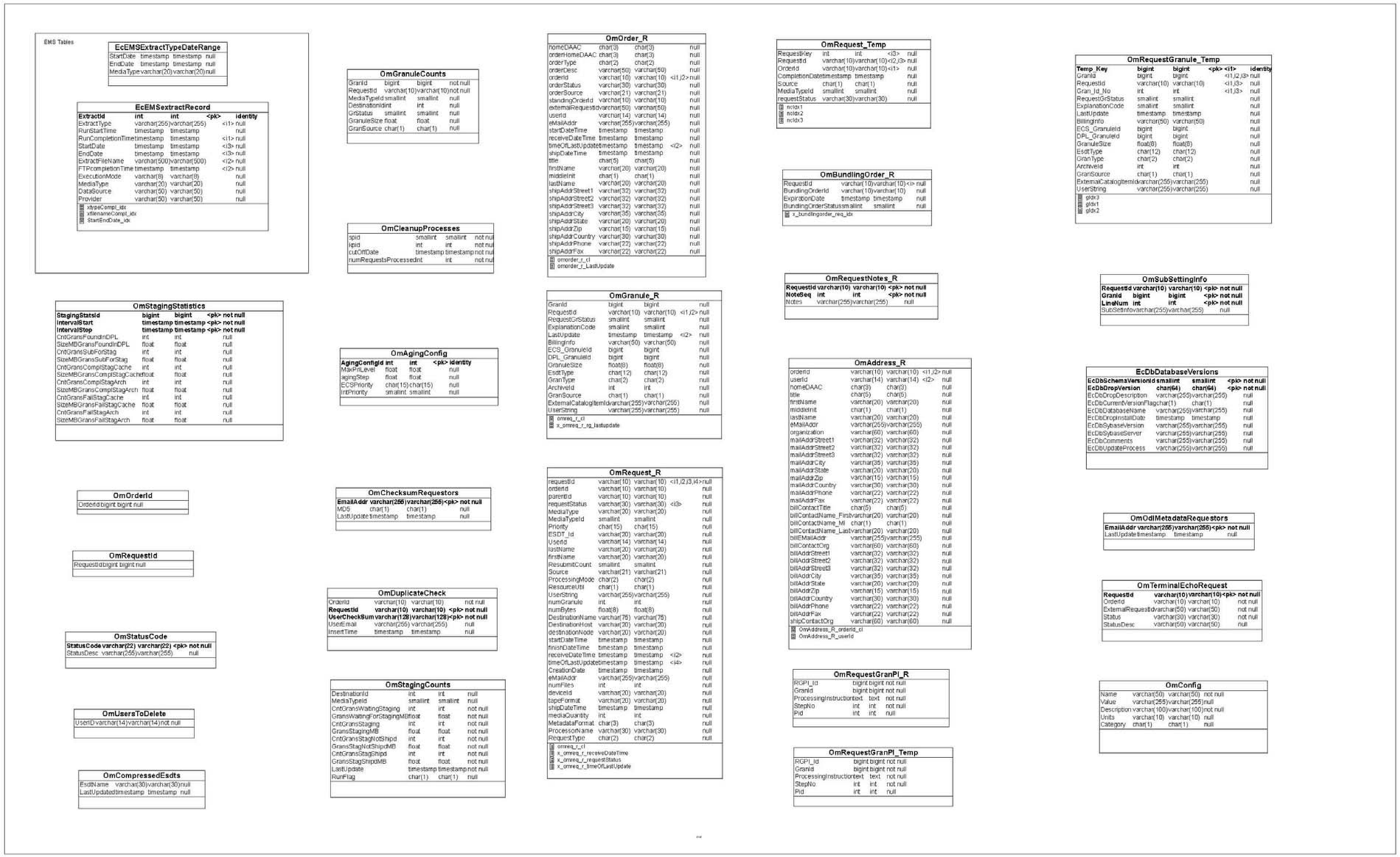

Figure A-1. Order Manager (2 of 2)

Appendix B. OMS Data Dictionary

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OMS Data Dictionary

September 12, 2013

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59 Table OmUsersToDelete

1 Table EcDbDatabaseVersions

Stores the current patch version level of Ingest database

Column	*Data Type*	*Nullable*	*Description*
EcDbSchemaVersionId	smallint	no	The subsystem-specific identifier for this database schema version
EcDbDropVersion	char(64)	no	The official name of the ECS software drop for this database version level
EcDbDropDescription	varchar(255)	yes	The official description of the ECS software drop for this database version level
EcDbCurrentVersionFlag	char(1)	yes	Flag indicating if this row represents the current database version entry
EcDbDatabaseName	varchar(255)	yes	The name of the database for which this database version level is applied
EcDbDropInstallDate	timestamp	yes	The date and time that the database version level was installed
EcDbSybaseVersion	varchar(255)	yes	The software release version of the Sybase SQL server in place when this database version level was initially installed
EcDbSybaseServer	varchar(255)	yes	The name of the baseline Sybase SQL server controlling this database
EcDbComments	varchar(255)	yes	Notes or comments on the database version level
EcDbUpdateProcess	varchar(255)	yes	The installation method by which this database version level was installed

2 Table EcEMSExtractTypeDateRange

Stores EMS time period for media type

Column	*Data Type*	*Nullable*	*Description*
StartDate	timestamp	yes	The date which the EMSExtract script (/ecs/formal/COMMON/EMS/scripts/EcDbEMSdataExtractor.pl) uses to specify the beginning range date of the data to send to EMS for a given run. Used by views EMSDistFTP_View, EMSDistHTTPTransfer_View in /ecs/formal/DSS/AIM/database/postgresql/views and EMSDistFTP_View in /ecs/formal/OMS/Database/views.
EndDate	timestamp	yes	The date which the EMSExtract script (/ecs/formal/COMMON/EMS/scripts/EcDbEMSdataExtractor.pl) uses to specify the ending range date of the data to send to EMS for a given run. Used by views EMSDistFTP_View, EMSDistHTTPTransfer_View in /ecs/formal/DSS/AIM/database/postgresql/views and EMSDistFTP_View in /ecs/formal/OMS/Database/views.
MediaType	varchar(20)	yes	The type of Mediatype for which the EMS script (/ecs/formal/COMMON/EMS/scripts/EcDbEMSdataExtractor.pl) will use to extract data for OMS order reporting. Used in view /ecs/formal/OMS/Database/views/EMSDistFTP_View.vi.

3 Table EcEMSextractRecord

Stores EMS extract records

Column	*Data Type*	*Nullable*	*Description*
ExtractId	int	no	serial column to identify a given extract record
ExtractType	varchar(255)	yes	The type of extraction preformed as defined in EcDbEMSdataExtractor.pl LoL array. Possible values include Arch, DistFTP, DistHTTP, Meta, searchExp and Ing.
RunStartTime	timestamp	yes	The start time of the EMS extraction date range for the given run.
RunCompletionTime	timestamp	yes	The end time of the EMS extraction date range for the given run.
StartDate	timestamp	yes	The start date of the EMS extraction date range for the given run.
EndDate	timestamp	yes	The end date of the EMS extraction date range for the given run.
ExtractFileName	varchar(500)	yes	The filename of the flat file that is sent to EMS for a given run.
FTPcompletionTime	timestamp	yes	When the file completed transfering to EMS.
ExecutionMode	varchar(8)	yes	If the EMS script is run without a startdate this will be set to "default", otherwise it will be set to "override".
MediaType	varchar(20)	yes	MediaType in OmMediaType table
DataSource	varchar(50)	yes	This is the operational mode appended with the media type for OMS requests.
Provider	varchar(50)	yes	The name of the DAAC that is sending the extraction record to EMS.

4 Table OmActionQueue

represents the current set of actions that are queued

Column	*Data Type*	*Nullable*	*Description*
ActionQueueId	int	no	UID for the action queue entry
ActionType	char(2)	no	The code that represents the action
RequestId	varchar(10)	yes	RequestId in OmRequest table
NotificationId	int	yes	NotificationId in OmNotification table
EnqueueTime	timestamp	no	Time at which this item was added to specified queue
LastUpdate	timestamp	no	Timestamp when this record was last updated
CompletionTime	timestamp	yes	Timestamp when this action was completed
RetryCount	smallint	yes	Number of times this queue item has been retried
ActionStatus	smallint	yes	Current Status of an Action in the queue. ActionStatus is NULL until the Action is dispatched
DispatchInfo	varchar(100)	yes	Reason for suspension/resumption
Pid	int	yes	Process Id for the queue item
ActionInfo	varchar(255)	yes	Field that describes file system archive associated with this action
GranId	bigint	yes	GranId in OmRequestGranule table
PickedTime	timestamp	yes	Time when the action is read by the OMS server

5 Table `OmActionType`

represents the valid set of actions used by OMS

Column	*Data Type*	*Nullable*	*Description*
`ActionType`	`char(2)`	no	The code that represents the action
`Description`	`varchar(100)`	no	The description of the action

6 Table OmAddress_R

contains archived addresses for requests

Column	*Data Type*	*Nullable*	*Description*
orderId	varchar(10)	yes	orderI in OmOrder table
userId	varchar(14)	yes	userId in OmOrder table
homeDAAC	char(3)	yes	not in use?
title	char(5)	yes	title in OmOrderAddress table
firstName	varchar(20)	yes	firstName in OmOrderAddress table
middleInit	char(1)	yes	middleInit in OmOrderAddress table
lastName	varchar(20)	yes	lastName in OmOrderAddress table
eMailAddr	varchar(255)	yes	email in OmOrderAddress table
organization	varchar(60)	yes	organization in OmOrderAddress table
street1	unknown	unknown	street1 in OmOrderAddress table
street2	unknown	unknown	street2 in OmOrderAddress table
street3	unknown	unknown	street3 in OmOrderAddress table
mailAddrCity	varchar(35)	yes	city in OmOrderAddress table
mailAddrState	varchar(20)	yes	state in OmOrderAddress table
mailAddrZip	varchar(15)	yes	zip in OmOrderAddress table
mailAddrCountry	varchar(30)	yes	country in OmOrderAddress table
mailAddrPhone	varchar(22)	yes	phone in OmOrderAddress table
mailAddrFax	varchar(22)	yes	fax in OmOrderAddress table
billContactTitle	char(5)	yes	title in OmOrderAddress table
billContactName_First	varchar(20)	yes	firstName in OmOrderAddress table
billContactName_MI	char(1)	yes	middleInit in OmOrderAddress table
billContactName_Last	varchar(20)	yes	lastName in OmOrderAddress table
billEMailAddr	varchar(255)	yes	email in OmOrderAddress table
billContactOrg	varchar(60)	yes	organization in OmOrderAddress table
billAddrStreet1	varchar(32)	yes	street1 in OmOrderAddress table
billAddrStreet2	varchar(32)	yes	street2 in OmOrderAddress table
billAddrStreet3	varchar(32)	yes	street3 in OmOrderAddress table
billAddrCity	varchar(35)	yes	city in OmOrderAddress table
billAddrState	varchar(20)	yes	state in OmOrderAddress table
billAddrZip	varchar(15)	yes	zip in OmOrderAddress table
billAddrCountry	varchar(30)	yes	country in OmOrderAddress table
billAddrPhone	varchar(22)	yes	phone in OmOrderAddress table
billAddrFax	varchar(22)	yes	fax in OmOrderAddress table
shipContactOrg	varchar(60)	yes	organization in OmOrderAddress table

7 Table OmAgingConfig

contains the aging policy used globally for each ECS priority

Column	*Data Type*	*Nullable*	*Description*
AgingConfigId	int	no	UID for an aging configuration parameter
MaxPriLevel	double precision	yes	Maximum 'effective priority' achievable through aging for a request of this ECS priority
agingStep	double precision	yes	Amount to increase 'effective priority' of a request each hour
ECSPriority	char(15)	yes	Original priority of request
IntPriority	smallint	yes	Integer value for corresponding ECSPriority

8 Table OmArchive

contains a list of Storage bins used for staging to the Data Pool

Column	*Data Type*	*Nullable*	*Description*
ArchiveId	int	no	UID for each archive created and used internally
ArchiveName	varchar(75)	yes	DAAC-Specific Name for an individual Archive server. HostName
ArchiveStatus	char(1)	yes	valid values: Suspend, Active.
ArchiveExplanation	smallint	yes	Static value for the defined reasons for an archive having a specific status.
LastUpdate	timestamp	yes	Timestamp when this record was last changed

9 Table OmBundlingOrder

holds the information pertaining to bundled orders for which subscriptions will be submitted against

Column	*Data Type*	*Nullable*	*Description*
BundlingOrderId	varchar(10)	no	UID for bundled order
BundlingOrderStatus	smallint	no	Current bundling status
RequestId	varchar(10)	no	RequestId in OmRequestGranule table
MediaTypeId	smallint	no	MediaTypeId in OmMediaType table
BundlingOrderPriority	smallint	no	Distribution priority to be used for the actions generated for the specific bundling order
ExpirationDate	timestamp	no	Date and time the Bundling Order will expire
MinBundleSize	double precision	no	Minimum size in MB a bundle must attain before it is distributed
MinBundleGranCnt	int	no	Minimum number of granules a bundle must contain before it is distributed
MaxBundleAge	double precision	no	
LastAccess	timestamp	no	Last time Bundling Order was accessed

10 Table OmBundlingOrder_R

holds the archive information pertaining to bundled orders

Column	*Data Type*	*Nullable*	*Description*
RequestId	varchar(10)	yes	RequestId in OmBundlingOrder table
BundlingOrderId	varchar(10)	yes	BundlingOrderId in OmBundlingOrder table
ExpirationDate	timestamp	yes	ExpirationDate in OmBundlingOrder table
BundlingOrderStatus	smallint	yes	BundlingOrderStatus in OmBundlingOrder table

11 Table `OmChecksumRequestors`

tracks requestors to be notified of checksum errors

Column	*Data Type*	*Nullable*	*Description*
`EmailAddr`	`varchar(255)`	no	Email for this requestor
`MD5`	`char(1)`	yes	Indicates whether checksum type is MD5
`LastUpdate`	`timestamp`	yes	Timestamp when this record was last updated

12 Table `OmCleanupProcesses`

tracks instance of Cleanup as it runs in OMS database

Column	*Data Type*	*Nullable*	*Description*
`spid`	`smallint`	no	Session Id
`kpid`	`int`	no	Kernel Process ID. KPID is a system-wide identifier that uniquely identifies a thread on Server
`cutOffDate`	`timestamp`	no	cutoff timestamp
`numRequestsProcessed`	`int`	no	The number of requests processed

13 Table `OmCompressedEsdts`

contains list of compressed Esdts

Column	*Data Type*	*Nullable*	*Description*
`EsdtName`	`varchar(30)`	yes	Esdt Name
`LastUpdated`	`timestamp`	yes	Timestamp when this row was last updated

14 Table `OmConfig`

contains the dynamic configuration parameters for the OmServer. These parameters will be able to be modified without re-booting the OmServer

Column	*Data Type*	*Nullable*	*Description*
`Name`	`varchar(50)`	no	Name of this configuration parameter
`Value`	`varchar(255)`	yes	Value of this configuration parameter
`Description`	`varchar(100)`	yes	Description of this configuration parameter
`Units`	`varchar(10)`	yes	Units associated with Parameter
`Category`	`char(1)`	yes	Category of this configuration parameter

15 Table OmConfigDestination

contains Ftp Push Destination information as configured by the DAAC operator

Column	*Data Type*	*Nullable*	*Description*
DestinationId	int	no	UID for each destination created and used internally.
DestinationName	varchar(75)	yes	Operator-assigned name for an individual destination
DestinationHost	varchar(100)	yes	FtpHost, corresponds to destinationNode in EcAcRequest table
Directory	varchar(255)	yes	Target directory corresponds to destinationDirectory in EcAcRequest table.
CreationTime	timestamp	yes	Timestamp when this destination was created
DestDispatchStatus	char(1)	yes	valid values: Suspended, Active
MinThroughput	double precision	yes	Best throughput rate for each individual FTP Push operation to this destination over the 15 minute period specified by intervalStart and intervalStop. Stored in MB/sec
Notes	varchar(255)	yes	User-entered comments for this destination
LastUpdate	timestamp	yes	Timestamp when this record was last updated
TimeOut	double precision	yes	Time buffer used for determining if an individual FTP Push operation should time out (Stored in seconds)
RetryInterval	double precision	yes	The number of seconds between retry attempts when auto-retrying
MaxConnections	int	yes	Maximum number of parallel connections to this individual destination
RetryMode	char(1)	yes	Specifies whether suspended requests are retried automatically or manually. A or M. Automatic or Manual
MediaTypeId	smallint	no	MediaTypeId in OmMediaType table
DisableChecksum	char(1)	no	Indicates whether to disable checksum for a configured destination

16 Table OmDestStatistics

contains historical copy of FTP Push throughput for each FTP Push destination. Calculated and stored once every 15 minutes

Column	*Data Type*	*Nullable*	*Description*
DestinationId	int	no	DestinationId in OmConfigDestination table
IntervalStart	timestamp	no	Beginning of 15 minute time period
IntervalStop	timestamp	no	End of 15 minute time period
MinPushThrpt	double precision	yes	Slowest throughput rate of all individual FTP Push operations to this destination over the 15 minute period specified by intervalStart and intervalStop. Stored in MB/sec
MaxPushThrpt	double precision	yes	Best throughput rate for all individual FTP Push operation to this destination over the 15 minute period specified by intervalStart and intervalStop. Stored in MB/sec
AvgPushThrpt	double precision	yes	Average throughput rate for all individual FTP Push operation to this destination over the 15 minute period specified by intervalStart and intervalStop. Stored in MB/sec
NumFailed	int	yes	Number of granules that FTP Push failed during time period specified by intervalStart and intervalStop
NumPushed	int	yes	Number of granules successfully pushed during the time period specified by intervalStart and intervalStop
SizePushedMB	double precision	yes	Cumulative size in MB of all granules successfully pushed during 15 minute period specified by intervalStart and intervalStop
DestinationHost	varchar(100)	yes	FtpHost, corresponds to destinationNode in EcAcRequest table
SizeFailedMB	double precision	yes	Cumulative size in MB of all granules successfully pushed during 15 minute period specified by intervalStart and intervalStop

17 Table `OmDuplicateCheck`

Used by DPL to prevent duplicate order submission

Column	*Data Type*	*Nullable*	*Description*
`OrderId`	`varchar(10)`	no	UID for OMS order
`RequestId`	`varchar(10)`	no	UID for OMS request
`UserCheckSum`	`varchar(128)`	no	Unique checksum generated by DPL
`UserEmail`	`varchar(255)`	yes	User email address
`InsertTime`	`timestamp`	yes	Timestamp when this record was created

18 Table `OmExplanation`

contains the static explanation associated with either a granule or a request

Column	*Data Type*	*Nullable*	*Description*
`ExplanationCode`	`smallint`	no	Static value for the defined reasons for a granule or request to have a specific status
`Explanation`	`varchar(75)`	no	Detailed information regarding the reason for a specified state of either a request or a granule
`MediaFlag`	`char(1)`	yes	Indicates whether this explanation is associated with media creation

19 Table OmExternalProcessor

contains information associated with external processor

Column	*Data Type*	*Nullable*	*Description*
ProcessorId	int	no	UID for an external processor
ProcessorName	varchar(30)	no	Unique name for an external processor
DNEmailAddr	varchar(255)	yes	Email address to which DNs will be sent for this processor. Used to identify secondary requests (input granule requests)
AddPreambleText	varchar(255)	yes	Any additional text to add into DN for all requests for this external processor
Endpoint	varchar(255)	no	Port number and IP Address of external processor
Status	varchar(30)	no	Status of this external processor
FtpPullRetainHours	int	yes	Number of hours to keep granules in pull area for external processor requests
LastUpdate	timestamp	no	Timestamp when this processor was last updated
CreationDate	timestamp	no	Timestsmp when this external processor was created

20 Table OmFile

contains metadata file information associated with a granule

Column	*Data Type*	*Nullable*	*Description*
FileId	bigint	no	UID for science file or metadata file
GranId	bigint	yes	GranId in OmRequestGranule table
FileType	char(1)	yes	S or M for Science File or MetaData File
DirectoryPath	varchar(255)	yes	Location of file in datapool
FileName	varchar(255)	yes	System Name of granule file
FileSize	double precision	yes	Size of file
ChkSum	varchar(128)	yes	Check sum value
ChkSumTypeId	smallint	yes	Check sum type id
LastChecksumTime	timestamp	yes	Timestamp when last checksum was performed on this file

21 Table OmGranuleCounts

contains intermediate results pertaining to request status counts

Column	*Data Type*	*Nullable*	*Description*
GranId	bigint	no	GranId in OmRequestGranule table
RequestId	varchar(10)	no	RequestId in OmRequestGranule table
MediaTypeId	smallint	yes	MediaTypeId in OmMediaType table
DestinationId	int	yes	DestinationId in OmConfigDestination table
GrStatus	smallint	yes	Present status of granule
GranuleSize	double precision	yes	Cumulative size of granule science/metadata files
GranSource	char(1)	yes	Source of Granule A, C, D, O, i.e., Archive, Cache, DataPool, or OutputGranule

22 Table OmGranule_R

contains granule level archived data

Column	*Data Type*	*Nullable*	*Description*
GranId	bigint	yes	GranId in OmRequestGranule table
RequestId	varchar(10)	yes	RequestId in OmRequestGranule table
RequestGrStatus	smallint	yes	RequestGrStatus in OmRequestGranule table
ExplanationCode	smallint	yes	ExplanationCode in OmExplanation table
LastUpdate	timestamp	yes	Timestamp when this record was last updated
BillingInfo	varchar(50)	yes	BillingInfo in OmRequestGranule table
ECS_GranuleId	bigint	yes	ECS_GranuleId in OmRequestGranule table
DPL_GranuleId	bigint	yes	DPL_GranuleId in OmRequestGranule table
GranuleSize	double precision	yes	GranuleSize in OmRequestGranule table
EsdtType	char(12)	yes	EsdtType in OmRequestGranule table
GranType	char(2)	yes	GranType in OmRequestGranule table
ArchiveId	int	yes	ArchiveId in OmRequestGranule table
GranSource	char(1)	yes	GranSource in OmRequestGranule table
ExternalCatalogItemId	varchar(255)	yes	ExternalCatalogItemId in OmRequestGranule table
UserString	varchar(255)	yes	UserString in OmRequestGranule table

23 Table OmMediaType

contains those parameters which are specific for each type of media

Column	*Data Type*	*Nullable*	*Description*
MediaTypeId	smallint	no	UID for this media type
MediaType	varchar(20)	no	Type of Media
MediaCapacity	double precision	no	Maximum storage capacity in MB for specified media type
MaxRequestSize	double precision	no	Maximum size of any individual request in MB for specified media type
MinBundleSize	double precision	no	Minimum size in MB a bundle must attain before it is distributed
PartitionGranuleLimit	int	no	Largest number of granules within a partition
PartitionSizeLimit	double precision	no	Largest size of a partition for a specified Media Type
QueueName	varchar(10)	no	Name of queue to which OM Server dispatches.
QSuspendState	char(1)	no	Determines whether actions can be submitted to a specified QueueName
LastUpdate	timestamp	no	Timestamp when this record was last updated
MediaCreationType	char(3)	yes	DAAC operators configure a media type for PDS or OMS media creation
QC_default	int	yes	Number of Request volumes that are to be QCd by default for media, either 100 for all or 0 for none
QC_Dorran_default	int	yes	Not used
MediaCreaDevLimit	int	yes	For Media configured for automatic processing, represents the configured limits for concurrent device usage for Production
MediaQCDevLimit	int	yes	For Media configured for automatic processing, represents the configured limits for concurrent device usage for QC
MinDaysBetweenChecksum	int	no	Minimum days between Checksum for configured destination

24 Table OmNotification

stores email notification information. The notification will be referenced by an action

Column	*Data Type*	*Nullable*	*Description*
NotificationId	int	no	UID for this notification created internally and used both internally and externally to refer to this notification
RequestId	varchar(10)	yes	RequestId in OmRequestGranule table
OperatorInterventionId	int	yes	OperatorInterventionId in OmOperatorIntervention table
NotificationStatus	smallint	yes	Static integer value for the defined statuses
LastUpdate	timestamp	no	Timestamp when this record was last updated
OperatorText	varchar(255)	yes	Free text field to permit an operator to enter information into an email notification request
AlertId	int	yes	AlertId in OmOperatorAlert table

25 Table `OmOdlMetadataRequestors`

contains a list of email addresses for users that wish to have their metadata distributed in ODL Format

Column	*Data Type*	*Nullable*	*Description*
`EmailAddr`	`varchar(255)`	no	User email address
`LastUpdate`	`timestamp`	yes	Timestamp when this record was last updated

26 Table OmOperatorAlert

contains Alert relative information for both general, distribution, and request related alerts

Column	*Data Type*	*Nullable*	*Description*
AlertId	int	no	UID for each alert created internally and used to refer to an alert item both internally and externally
CreationTime	timestamp	yes	Timestamp when this alert was created
CompletionTime	timestamp	yes	Timestamp when this alert was completed
AlertExplanation	smallint	yes	Specifies cause/source of alert
AlertType	char(2)	yes	FileSystem, Archive, Destination, or Media Creation (F, S, D, M)
AlertInfo	varchar(255)	yes	Contains either destination id, File system or archive info associated with alert. AlertType signifies what info will be in this field
AlertStatus	char(1)	yes	Status of this alert

27 Table OmOperatorIntervention

contains information relative to requests that require a User Services Operator to act upon

Column	*Data Type*	*Nullable*	*Description*
OperatorInterventionId	int	no	UID for the operator intervention created internally and used both internally and externally to refer to this operator intervention
RequestId	varchar(10)	no	RequestId in OmRequestGranule table
InterventionStatus	smallint	no	Static integer value for the defined statuses
WorkedBy	varchar(14)	yes	Identification of the Operator who entered a disposition of an Operator Intervention request
CreationTime	timestamp	no	Timestamp when this intervention was created
Outcome	varchar(50)	yes	Information regarding the disposition of an intervention
AckTime	timestamp	yes	Time the Operator chose to work on a PENDING intervention
CompletionTime	timestamp	yes	Timestamp when this intervention was completed
OperatorNotes	varchar(255)	yes	Operator entered notes for this operator intervention

28 Table OmOrder

stores the order of the end user information. The data is used to fill and ship the request and to track the status of the order. An order can have many requests, and it may not be associated with a user in the MsAcUsrProfile table. (i.e. the order may belong to a guest user). Data is stored indefinitely in the table

Column	*Data Type*	*Nullable*	*Description*
OrderId	varchar(10)	no	UID for OMS order
userId	varchar(14)	no	UID for a registered user
orderSource	varchar(21)	yes	Origination of this order (MTMGW, SSS, DPLGUI, V0GW, etc)
orderStatus	varchar(30)	yes	Status of an order in MSS when it was archived
orderDesc	varchar(50)	yes	Description of the user's order
orderDistFormat	varchar(64)	yes	NA
orderMedia	varchar(20)	yes	The method this order should be shipped, ie, Ftp-Pull, FtpPush, Scp
orderGranule	int	yes	The number of granules in this order
orderPriority	varchar(10)	yes	The priority of the order, ie, NORMAL, VHIGH
receiveDateTime	timestamp	yes	Oder received timestamp
startDateTime	timestamp	yes	Order starting timestamp
finishDateTime	timestamp	yes	Order completion timestamp
timeOfLastUpdate	timestamp	yes	Order last update timestamp
shipDateTime	timestamp	yes	Order shipping timestamp
orderType	varchar(2)	yes	The type of an order
standingOrderId	varchar(10)	yes	ID of a standing order
externalRequestId	varchar(50)	yes	External Request Id used by MTMGW associated with this order
rpcId	char(250)	yes	
logicalLock	int	yes	

29 Table OmOrderAddress

stores identifying address information per request

Column	*Data Type*	*Nullable*	*Description*
OrderId	varchar(10)	no	OrderId in OmOrder table
addressType	char(1)	no	Indicates whether this address is a billing adress, mailing address or shipping address. Valid values: B, S, M
title	varchar(5)	yes	Title of the order requestor
firstName	varchar(20)	yes	Fist name of the order requestor
middleInit	char(1)	yes	Middle Initial of the order requestor
lastName	varchar(20)	yes	Last name of the order requestor
organization	varchar(60)	yes	Organization of the order requestor
email	varchar(255)	yes	Email address of the order requestor
street1	varchar(32)	yes	Street of the order requestor
street2	varchar(32)	yes	Street of the order requestor
street3	varchar(32)	yes	Street of the order requestor
city	varchar(35)	yes	City of the order requestor
state	varchar(20)	yes	State of the order requestor
zip	varchar(15)	yes	Zip code of the order requestor
country	varchar(30)	yes	Country of the order requestor
phone	varchar(22)	yes	Phone number of the order requestor
fax	varchar(22)	yes	Fax number of the order requestor

30 Table `OmOrderId`

is used to generate the next request for the DAAC identified in the ECMSDAACSITES table. At any given time, there must be only one row in this table

Column	*Data Type*	*Nullable*	*Description*
`OrderId`	`bigint`	yes	UID for order

31 Table OmOrder_R

contains archived order level information

Column	*Data Type*	*Nullable*	*Description*
homeDAAC	char(3)	yes	Primary DAAC who processed this request
orderHomeDAAC	char(3)	yes	The home DAAC where the order was placed
orderType	char(2)	yes	The type of the order
orderDesc	varchar(50)	yes	Description of the user's order
orderId	varchar(10)	yes	orderId in OmRequest table
orderStatus	varchar(30)	yes	Status of the archived order
orderSource	varchar(21)	yes	OMS Client of order
standingOrderId	varchar(10)	yes	ID of a standing order
externalRequestId	varchar(50)	yes	External Request Id used by ECHO associated with this order
userId	varchar(14)	yes	userId in OmRequest table
eMailAddr	varchar(255)	yes	Email address of the order requestor
startDateTime	timestamp	yes	Order starting timestamp
receiveDateTime	timestamp	yes	Order received timestamp
timeOfLastUpdate	timestamp	yes	Order last updated timestamp
shipDateTime	timestamp	yes	Order shipping timestamp
title	char(5)	yes	Order requestor title
firstName	varchar(20)	yes	Order requestor first name
middleInit	char(1)	yes	Order requestor middle initial
lastName	varchar(20)	yes	Order requestor last name
shipAddrStreet1	varchar(32)	yes	Order shipping street
shipAddrStreet2	varchar(32)	yes	Order shipping street
shipAddrStreet3	varchar(32)	yes	Order shipping street
shipAddrCity	varchar(35)	yes	Order shipping city
shipAddrState	varchar(20)	yes	Order shipping state
shipAddrZip	varchar(15)	yes	Order shipping zip code
shipAddrCountry	varchar(30)	yes	Order shipping country
shipAddrPhone	varchar(22)	yes	Order requestor phone number
shipAddrFax	varchar(22)	yes	Order requestor fax number

32 Table `OmProcessingInstruction`

contains Processing Text information about the requests

Column	*Data Type*	*Nullable*	*Description*
`RequestId`	`varchar(10)`	no	UID for OMS request
`ODLString`	`text`	yes	ODL in text format
`StringLength`	`int`	yes	Length of ODL string, used for efficient data retrieval

33 Table OmProcessorRequestXref

contains relationship between external processors and requests

Column	*Data Type*	*Nullable*	*Description*
RequestId	varchar(10)	no	UID for request
ProcessorId	int	no	UID for an external processor
NumGranules	int	yes	Number of granules for this request
SizeInputGrans	double precision	yes	Size in MB of input granules for this request

34 Table OmQueue

maintains the current settings of the Queue utilized by Order Manager Server during Request Dispatching.

Column	*Data Type*	*Nullable*	*Description*
QueueName	varchar(10)	no	Name of queue to which OM Server dispatches
QSuspendState	char(1)	no	Determines whether actions can be submitted to a specified QueueName
QAcceptRequest	char(1)	no	Determines whether the acceptance of any processing/subsetting requests is currently stopped or not. valid values: Y - accepting request; N - not accepting request
ActionClass	varchar(10)	no	Determines which queue the OM Server should utilize
QueueDesc	varchar(75)	no	Description of the QueueName
LastUpdate	timestamp	no	Queue last update timestamp

35 Table OmReqGrInput

stores the input granule ID and its request granule processing instruction ID

Column	*Data Type*	*Nullable*	*Description*
GranId	bigint	no	GranId in OmRequestGranule table
RGPI_Id	bigint	no	RGPI_Id in OmRequestGranPI table

36 Table OmReqGrOutput

stores the output granule ID and its request granule processing instruction ID, which correlate the processing instruction that uses to produce the output granule

Column	*Data Type*	*Nullable*	*Description*
GranId	bigint	no	GranId in OmRequestGranule
RGPI_Id	bigint	no	RGPI_Id in OmRequestGranPI table

37 Table OmRequest

records each data distribution request received by an OMS Client

Column	*Data Type*	*Nullable*	*Description*
OrderId	varchar(10)	no	OrderId in OmOrder table
RequestId	varchar(10)	no	UID for this request
UserId	varchar(14)	no	UID for user
MediaTypeId	smallint	no	MediaTypeId in OmMediaType table
CreationDate	timestamp	no	Timestamp this record was created
ExemptfromLimitChk	char(1)	no	Determines whether the request will undergo Request Limit Validation
ResubmitCount	smallint	no	Number of times specified request has been resubmitted
CompletionTime	timestamp	yes	Timestamp this request was completed
ProcessingMode	char(2)	yes	Processing Mode (Synergy III/Synergy IV) for this individual request
ExpirationDate	timestamp	yes	iTimestamp the Request will expire
ResourceUtil	char(1)	yes	Resource utilization category (cheap, moderate, expensive) of this request
LastUpdate	timestamp	yes	Timestamp the request last updated
PriorRequestState	varchar(30)	yes	Previous state of request prior to being suspended
Source	varchar(21)	yes	Client of this request
DueDate	timestamp	yes	Date when media creation is expected to be completed for this request. Used by operators
Notify	varchar(255)	no	Free text field to record the optional distribution parameter NOTIFY. Normally expected to hold an email address where the user would like the distribution request sent
NotifyType	char(4)	yes	Text fields to record whether the notification to the user should be sent via EMAIL
UserString	varchar(255)	yes	Optional Distribution option which identifies a request
Priority	char(15)	yes	The priority of the request
MetaDataFlag	char(1)	yes	Indicates whether or not the user has requested metadata with this request.
ScrambledPullDirName	varchar(20)	yes	Encrypted Pull Directory Name.
AllocationTime	timestamp	yes	Time at which the Request is allocated to a production module
Label	varchar(20)	yes	Unique label for unit
MetadataFormat	char(3)	no	Indicates whether or not the user has requested metadata with this request
OverrideFormatFlag	char(1)	yes	Indicates whether we should ignore the email address and use the present value of MetadataFormat column when deciding what format to ship metadata
RequestType	char(2)	yes	orderType for this request
parentId	varchar(10)	yes	A request can be broken into subrequests, and this column holds the ID for that request
requestStatus	varchar(30)	yes	Status of this request

Table `OmRequest` (continued)

Column	*Data Type*	*Nullable*	*Description*
`requestDesc`	`varchar(50)`	yes	Text description of the request
`numGranule`	`int`	yes	The number of granules in the request
`numBytes`	`double precision`	yes	Total size in MB of this request
`numFiles`	`int`	yes	Total number of granule files for this request
`ESDT_Id`	`varchar(20)`	yes	Primary ESDT associated with this request
`deviceId`	`varchar(20)`	yes	Device that was used to create media for this request (corresponds to Label)
`deviceDensity`	`varchar(20)`	yes	
`tapeFormat`	`varchar(20)`	yes	Holds the format of the tape for the request
`mediaQuantity`	`int`	yes	The number of media requested for an order.
`shipDateTime`	`timestamp`	yes	Timestamp of shipping
`timeOfLastUpdate`	`timestamp`	yes	Timestamp of last updated
`finishDateTime`	`timestamp`	yes	Timestamp of request completion
`startDateTime`	`timestamp`	yes	Timestamp of request starting processing
`receiveDateTime`	`timestamp`	yes	Timestamp of request received

38 Table OmRequestDestination

s used to store destinations for requests

Column	*Data Type*	*Nullable*	*Description*
RequestId	varchar(10)	no	UID for request
DestinationId	int	no	UID for destination
Directory	varchar(255)	yes	Target directory corresponds to destinationDirectory in EcAcRequest table
Host	varchar(100)	no	Remote host name
Password	varchar(50)	no	Remote user password
UserName	varchar(128)	no	Remote user name

39 Table OmRequestGranPI

stores the granule level processing instructions

Column	*Data Type*	*Nullable*	*Description*
RGPI_Id	bigint	no	UID for request granule processing instruction
GranId	bigint	no	UID for OMS granule
ProcessingInstruction	text	no	Processing instruction for a granule
StepNo	int	no	The number of step in the process of producing a new granule
Pid	int	yes	Process id

40 Table OmRequestGranPI_R

stores the archived granule level processing instructions

Column	*Data Type*	*Nullable*	*Description*
RGPI_Id	bigint	no	UID for request processing instruction
GranId	bigint	no	UID for granule
ProcessingInstruction	text	no	Processing instruction for a granule
StepNo	int	no	Step number for this processing instruction
Pid	int	yes	process id

41 Table OmRequestGranPI_Temp

stores temporary granule level processing instructions during archive process

Column	*Data Type*	*Nullable*	*Description*
RGPI_Id	bigint	no	UID for this request processing instruction
GranId	bigint	no	UID for this granule
ProcessingInstruction	text	no	Processing instruction for a granule
StepNo	int	no	Step number
Pid	int	yes	Process id

42 Table OmRequestGranule

contains Request Level Granule Information

Column	*Data Type*	*Nullable*	*Description*
GranId	bigint	no	UID for granule
RequestId	varchar(10)	no	UID for request
RequestGrStatus	smallint	yes	Status of granule with respect to Request
ExplanationCode	smallint	yes	Static value for the defined reasons for a granule or request to have a specific status
LastUpdate	timestamp	yes	Last update timestamp
PreviousStatus	smallint	yes	Previous status of granule, prior to running statistics
BillingInfo	varchar(255)	yes	NA
ECS_GranuleId	bigint	yes	GranuleId in AmGranule table
GranuleSize	double precision	yes	Cumulative size of granule science/metadata files
EsdtType	varchar(12)	yes	Earth Science Data Type short name
GranType	char(2)	yes	Identifies whether granule is a type of Science, Quality, ProcessingHistory, or Browse, DataPool.
InsertDateTime	timestamp	no	Timestamp when this record was created
ArchiveId	int	yes	ArchiveId in OmArchive table
GranSource	char(1)	yes	Source of Granule, i.e., A - Archive, C - Cache, D - DataPool, O - OutputGranule
PriorGrStatus	varchar(25)	yes	Previous state of granule prior to being canceled
ChildGranId	bigint	yes	OMS internal granule id of compressed version of this granuIe
ExternalCatalogItemId	varchar(255)	yes	External Catalog item id associated with granule
UserString	varchar(255)	yes	Optional Distribution option which identifies a request
IntendedUsage	varchar(100)	yes	Primary Study Area
IsCleanedUp	char(1)	yes	Indicates a granule record is eligible for removal

43 Table OmRequestGranule_Temp

used for storing intermediate request granule information when archiving data

Column	*Data Type*	*Nullable*	*Description*
Temp_Key	bigint	no	UID for the row
GranId	bigint	yes	UID for the granule
RequestId	varchar(10)	yes	UID for the request
Gran_Id_No	int	yes	Sequential number identifying a specific granule in a multi-granule request
RequestGrStatus	smallint	yes	Status of granule with respect to Request
ExplanationCode	smallint	yes	ExplanationCode in OmExplanation table
LastUpdate	timestamp	yes	Timestamp when this record was last updated
BillingInfo	varchar(50)	yes	NA
ECS_GranuleId	bigint	yes	GranuleId in AmGranule table
DPL_GranuleId	bigint	yes	GranuleId in AmGranule table
GranuleSize	double precision	yes	Cumulative size of granule science/metadata files
EsdtType	char(12)	yes	Earth Science Data Type short name
GranType	char(2)	yes	Identifies whether granule is a type of Science, Quality, ProcessingHistory, or Browse, DataPool
ArchiveId	int	yes	ArchiveId in OmArchive table
GranSource	char(1)	yes	Source of Granule, i.e., A - Archive, C - Cache, D - DataPool, O - OutputGranule
ExternalCatalogItemId	varchar(255)	yes	External Catalog item id associated with granule
UserString	varchar(255)	yes	Optional Distribution option which identifies a request

44 Table OmRequestId

used to generate the next requested for the DAAC identified in the EcMsDAACSITES table. At any given time, there must be only one row in this table

Column	*Data Type*	*Nullable*	*Description*
RequestId	bigint	yes	UID for the request

45 Table `OmRequestInterventions`

contains request specific information requiring a User Service Operator to act upon

Column	*Data Type*	*Nullable*	*Description*
`OperatorInterventionId`	`int`	no	UID for the operator intervention created internally and used both internally and externally to refer to this operator intervention
`RequestId`	`varchar(10)`	no	RequestId in OmRequest table
`RequestStatus`	`smallint`	no	RequestStatus in OmRequest table
`ExplanationCode`	`smallint`	no	ExplanationCode in OmExplanation table

46 Table OmRequestNotes

contains request notes as entered by operator

Column	*Data Type*	*Nullable*	*Description*
RequestId	varchar(10)	no	RequestId in OmRequestGranule table
NoteSeq	int	no	Sequential Number allocated to request note
Notes	varchar(255)	yes	Text description of the note

47 Table OmRequestNotes_R

Contains archived request notes

Column	*Data Type*	*Nullable*	*Description*
RequestId	varchar(10)	no	RequestId in OmRequestGranule table
NoteSeq	int	no	Sequential Number allocated to request note
Notes	varchar(255)	yes	Text description of the note

48 Table OmRequest_R

stores the request level archived data

Column	*Data Type*	*Nullable*	*Description*
requestId	varchar(10)	yes	UID for this request
orderId	varchar(10)	yes	Order id for this request
parentId	varchar(10)	yes	A request can be broken into subrequests, and this column holds the ID for that request
requestStatus	varchar(30)	yes	Status of this request
MediaType	varchar(20)	yes	MediaType in OmMediaType table
MediaTypeId	smallint	yes	MediaTypeId in OmMediaType table
Priority	char(15)	yes	The priority of the request
ESDT_Id	varchar(20)	yes	Primary ESDT associated with this request
UserId	varchar(14)	yes	UID for user
lastName	varchar(20)	yes	Last name for user
firstName	varchar(20)	yes	First name for user
ResubmitCount	smallint	yes	Number of times specified request has been resubmitted
Source	varchar(21)	yes	Client of this request
ProcessingMode	char(2)	yes	Processing Mode (Synergy III/Synergy IV) for this individual request
ResourceUtil	char(1)	yes	Resource utilization category (cheap, moderate, expensive) of this request.
UserString	varchar(255)	yes	Optional Distribution option which identifies a request
numGranule	int	yes	The number of granules in the request
numBytes	double precision	yes	Total size in MB of this request
DestinationName	varchar(75)	yes	The name of the destination
DestinationHost	varchar(100)	yes	The host of the destination
destinationNode	varchar(100)	yes	Ftp host for the request
startDateTime	timestamp	yes	Timestamp of request starting processing
finishDateTime	timestamp	yes	Timestamp of request completion
receiveDateTime	timestamp	yes	Timestamp of request received
timeOfLastUpdate	timestamp	yes	Timestamp of last updated
CreationDate	timestamp	yes	Timestamp this record was created
eMailAddr	varchar(255)	yes	Email address
numFiles	int	yes	Total number of granule files for this request
deviceId	varchar(20)	yes	Device that was used to create media for this request (corresponds to Label)
tapeFormat	varchar(20)	yes	Holds the format of the tape for the request
shipDateTime	timestamp	yes	Timestamp of shipping
mediaQuantity	int	yes	The number of media requested for an order
MetadataFormat	char(3)	yes	Indicates whether or not the user has requested metadata with this request
ProcessorName	varchar(30)	yes	Unique name for an external processor
RequestType	char(2)	yes	orderType for this request

49 Table OmRequest_Temp

used for storing intermediate request information when archiving data

Column	*Data Type*	*Nullable*	*Description*
RequestKey	int	yes	Internal key used in processing requests for archive
RequestId	varchar(10)	yes	UID for the request
OrderId	varchar(10)	yes	OrderId in OmOrder table
CompletionDate	timestamp	yes	Completion timestamp of request
Source	char(1)	yes	Client of this request
MediaTypeId	smallint	yes	MediaTypeId in OmMediaType table
requestStatus	varchar(30)	yes	Status of the request

50 Table OmServices

stores one row for each available Data Access Service endpoint. This table defines several configuration options that are used to control how OMS interacts with the Data Access services when submitting DA jobs. These options include the number of concurrent jobs that can be sent to a given service and when to suspend the service and enter an auto-retry mode.

Column	*Data Type*	*Nullable*	*Description*
`name`	`varchar(4)`	no	Service name
`endpoint`	`varchar(255)`	no	Port number and IP Address
`maxjobs`	`int`	no	Max number of granules that can be processed at the same time
`timeout`	`int`	no	Time buffer used for determining if an individual FTP Push operation should time out (Stored in seconds).
`maxerrors`	`int`	no	Number of failures before suspending sevice and entering auto-retry mode
`retryinterval`	`int`	no	Amount of time to wait to retry a failed FTP Push attempt to this destination. Stored in seconds
`status`	`char(1)`	no	Status of the service

51 Table OmStagingConfig

contains water mark information for media types and FTP Push Destinations

Column	*Data Type*	*Nullable*	*Description*
StagingConfigId	int	no	UID for Staging Config table
MediaTypeId	smallint	yes	UID for this media type
DestinationId	int	yes	UID for each destination created and used internally
DHWM	double precision	yes	Data volume high water mark in MB for destination specifying the desired maximum data volume that may be in staging or staged but not yet shipped.
DLWM	double precision	yes	A data volume low water mark in MB for destination specifying the desired minimum data volume that should be in staging or staged but not yet shipped.
RHWM	int	yes	A request high water mark for destination specifying the desired maximum number of requests that maybe in the Staging state.
RLWM	int	yes	A request low water mark for destination, specifying the desired minimum number of requests that should be in staging or staged.
ProcessingMode	char(2)	yes	Processing Mode for this individual request.
StagingStatus	char(1)	yes	Indicates whether staging is active or suspended for this media or destination.

52 Table OmStagingCounts

contains an up-to-date (within a configurable number of minutes) copy of several staging statistics

Column	*Data Type*	*Nullable*	*Description*
DestinationId	int	yes	DestinationId in OmConfigDestination table
MediaTypeId	smallint	yes	MediaTypeId in OmMediaType table
CntGransWaitingStaging	int	no	Number of granules waiting to be staged in system
GransWaitingForStagingMB	double precision	no	Cumulative size in MB of granules waiting to be moved to staging state for this destination/media
CntGransStaging	int	no	Number of granules in staging process in system
GransStagingMB	double precision	no	Cumulative size in MB of granules in staging for this destination/media
CntGransStagNotShipd	int	no	Number of request granules whose associated physical granule has been staged but the granule has not been shipped to its destination or physical media
GransStagNotShipdMB	double precision	no	Cumulative size in MB of granules staged but waiting to be shipped for this destination/Media
CntGransStagShipd	int	no	Number of request granules whose associated physical granule has been staged and the granule has been shipped to its destination or physical media
GransStagShipdMB	double precision	no	Cumulative size in MB of granules staged, shipped but still in the Data Pool for this destination/Media
LastUpdate	timestamp	no	Timestamp of this record last updated
RunFlag	char(1)	yes	Indicates the current process applying change to table

53 Table OmStagingStatistics

contains throughput statistics of staging and is populated once every 15 minutes

Column	*Data Type*	*Nullable*	*Description*
StagingStatsId	bigint	no	UID for this statistic
IntervalStart	timestamp	no	Beginning of 15 minute time period
IntervalStop	timestamp	no	Ending of 15 minute time period
CntGransFoundInDPL	int	yes	Number of granules found in Data Pool for requests being staged during this 15 minute period
SizeMBGransFoundInDPL	double precision	yes	Cumulative size of granules found in Data Pool for requests being staged during this 15 minute period
CntGransSubForStag	int	yes	Number of granules submitted for staging (whether their source is archive or cache or DPL) during this 15 minute time period
SizeMBGransSubForStag	double precision	yes	Cumulative size in MB of granules submitted for staging (whether their source is archive or cache or DPL) during this 15 minute time period
CntGransComplStagCache	int	yes	Number of granules from cache that completed staging during this 15 minute time period
SizeMBGransComplStagCache	double precision	yes	Cumulative size in MB of granules from cache that completed staging during this 15 minute time period
CntGransComplStagArch	int	yes	Number of granules from archive that completed staging during this 15 minute time period
SizeMBGransComplStagArch	double precision	yes	Cumulative size in MB of granules from archive that completed staging during this 15 minute time period
CntGransFailStagCache	int	yes	Number of granules from cache that failed staging during this 15 minute time period
SizeMBGransFailStagCache	double precision	yes	Cumulative size in MB of granules from cache that failed staging during this 15 minute time period
CntGransFailStagArch	int	yes	Number of granules from archive that failed staging during this 15 minute time period
SizeMBGransFailStagArch	double precision	yes	Cumulative size in MB of granules from archive that failed staging during this 15 minute time period

54 Table OmStatus

maintains the static values for the status of request, granules, bundling orders, operator interventions, notifications and actions

Column	*Data Type*	*Nullable*	*Description*
StatusCode	smallint	no	Static integer value for the defined statuses
StatusDesc	varchar(25)	no	Description of the state of the granule

55 Table OmStatusCode

a lookup table; it defines the list order statuses

Column	*Data Type*	*Nullable*	*Description*
StatusCode	varchar(22)	no	Static integer value for the defined statuses
StatusDesc	varchar(255)	yes	Description of the state of the granule

56 Table OmSubSettingInfo

records the subsetting information specific to granules referenced within a request.

Column	*Data Type*	*Nullable*	*Description*
RequestId	varchar(10)	no	RequestId in OmRequestGranule table
GranId	bigint	no	GranId in OmRequestGranule table
LineNum	int	no	Integer detailing line number within ODL for Sub-Setting Information
SubSetInfo	varchar(255)	no	Holds the subsetting info for a Landsat granule

57 Table OmSuspendedDestination

stores the info for destinations that are not configured but are suspended. A destination is removed from this table once it is resumed

Column	*Data Type*	*Nullable*	*Description*
DestinationHost	varchar(100)	no	FtpHost, corresponds to destinationNode in EcAcRequest table
DestinationName	varchar(75)	no	Operator-assigned name for an individual destination
DestinationId	int	no	UID for each destination created and used internally
Directory	varchar(255)	yes	Target directory corresponds to destinationDirectory in EcAcRequest table
UserId	varchar(128)	yes	UserId in OmOrder
SuspendDate	timestamp	yes	Date/Time this destination was suspended
SuspendExplanation	smallint	yes	Specifies cause/source of suspension

58 Table OmTerminalEchoRequest

stores Echo requests that have reached a terminal state and are not aborted. Record is inserted by mss update trigger action on the EcAcRequest table

Column	*Data Type*	*Nullable*	*Description*
RequestId	varchar(10)	no	RequestId in OmRequest table
OrderId	varchar(10)	no	OrderId in OmRequest table
ExternalRequestId	varchar(50)	no	ExternalRequestId in OmOrder table
Status	varchar(30)	no	Status of the request
StatusDesc	varchar(50)	yes	Text description of the request status

59 Table `OmUsersToDelete`

stores the info for UserIDs that can be deleted from the archive tables, OmOrder_R, OmRequest_R, OmGranule_R, OmAddress_R, etc

Column	*Data Type*	*Nullable*	*Description*
`UserID`	`varchar(14)`	no	UID of the user

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Abbreviations and Acronyms

AIM	Archive Inventory Management
ANSI	American National Standards Institute
ASCII	American Standard Code for Information Exchange
CASE	Computer Aided Software Engineering
CD	contractual delivery 213-001
CDRL	contract data requirements list
CI	configuration item
CONFIG	Configuration Registry Subsystem
COTS	commercial off-the-shelf (hardware or software)
CSCI	computer software configuration item
DAAC	Distributed Active Archive Center
DBCC	Database Consistency Checker
DBMS	Database Management System
DCN	Document Change Notice
DID	data item description
DM	Data Management
DMS	Data Management Subsystem
ECS	EOSDIS Core System
EDC	EROS Data Center
EDHS	ECS Data Handling System
EMD	EOSDIS Maintenance & Development
EOSDIS	Earth Observing System Data and Information System
EROS	Earth Resources Observation System
ERD	Entity Relationship Diagram
ESDIS	Earth Science Data and Information System (GSFC)
ESDT	Earth science data types
ESN	EOSDIS Science Network (ECS)
FK	Foreign Key
GSFC	Goddard Space Flight Center
GUI	graphic user interface
HDF	hierarchical data format
HDF-EOS	an EOS proposed standard for a specialized HDF data format
HTML	HyperText Markup Language

HTTP	Hypertext Transport Protocol
I/O	input/output
ICD	interface control document
INGST	Ingest Services CSCI
IOS	Interoperability Subsystem
LaRC	Langley Research Center (DAAC)
MB	Mega Bytes
MSS	Management Support Subsystem
N/A	not applicable
NAS	National Academy of Science
NASA	National Aeronautics and Space Administration
NSIDC	National Snow and Ice Data Center (DAAC)
ODL	Object Definition Language
OM	Order Manager
OMS	Order Manager System
PCF	Process Control File
PDF	Portable Document Format
PDPS	Planning and Data Processing Subsystem
PGE	Product Generation Executive
PK	Primary Key
QA	Quality Assurance
RDBMS	Relational Data Base Management System
SQL	Structured Query Language
STMGT	Storage Management Software CSCI
SUBSRV	Subscription Server
UID	Unique Identifier
URL	Universal Resource Locator
WWW	World-Wide Web