

311-EMD-224

## **EOSDIS Maintenance and Development Project**

# **Release 7.22 Order Manager Database Design and Schema Specifications for the EMD Project**

March 2009

Raytheon Information Solutions  
Riverdale, Maryland


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# Release 7.22 Order Manager Database Design and Schema Specifications for the EMD Project

March 2009

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# Preface

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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 Subscription Server subsystem. It is one of eleven documents comprising the detailed database design specifications for each of the EMD subsystems.

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

- 311-EMD-220 Release 7.22 INGEST (INS) Subsystem Database Design and Schema Specifications for the EMD Project
- 311-EMD-224 Release 7.22 Order Manager (OMS) Database Design and Schema Specifications for the EMD Project
- 311-EMD-225 Release 7.22 Spatial Subscription Server (SSS) Database Design and Schema Specifications for the EMD Project
- 311-EMD-226 Release 7.22 Data Pool Database (DPL) Design and Schema Specifications for the EMD Project
- 311-EMD-227 Release 7.22 Archive Inventory Management (AIM) Database Design and Schema Specifications for the EMD Project

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>.

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# Abstract

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This document outlines Release 7.22 “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, and database scripts

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## **Appendix A. Entity Relationship Diagram**

### **Abbreviations and Acronyms**

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# 1. Introduction

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## 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 (EMD) Contract (NAS5-03098).

## 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 7 Order Manager software.

## 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.

Section 3 contains the OMS data design which is the database tables, triggers, and stored procedures.

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

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### 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-EMD-220	Release 7.22 Segment Design Specifications for the EMD Project
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 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-EMD-220	Release 7.22 Operations Tools Manual for the EMD Project
611-EMD-220	Release 7.22 Mission Operation Procedures for the EMD Project

These documents are accessible via the EDHS homepage.

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## 3. Data Design

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### 3.1 Design Overview

The Order Manager Subsystem database implements the persistent data requirements for the Order Manager Subsystem. The database is designed to satisfy business rules while maintaining data integrity, consistency, and performance. Database tables are implemented using the Sybase Relational Database Management System (RDBMS) Version 12.5. All components of the Order Manager Subsystem database are described in the following sections; information is presented in sufficient detail to support operational needs.

#### 3.1.1 Physical Data Model Entity Relationship Diagram

An entity relationship diagram (ERD) was developed for use as a "roadmap" to the Order Manager Subsystem database. An ERD is a schematic of the physical data structure that illustrates the dependencies and relationships between database entities, i.e., tables. On ERDs, rectangles and arrows represent database entities as shown by the key in Figure 3-1. The ERD for the Order Manager is shown in Appendix A.

#### *Sample Table*

Table Name

Column 1, PK  
Column 2  
Column 3

PK = Primary Key  
FK = Foreign Key

---

#### *Sample Relationship*

##### **Independent Table**

Table A

Column 1, PK  
Column 2

##### **Dependent Table**

Table B

Column 1, PK  
Column 2, FK

*Table A has a one to many relationship with Table B*

**Figure 3-1. Order Manager ERD Key**

### 3.1.2 Tables

A listing of each the tables in the Order Manager database is given here. A brief definition of each of these tables follows including a listing of the columns comprising the table in Table 3-1. The column list indicates if the column is part of the primary key for the table, that is, if the columns can be used alone or in combination with other primary key columns to uniquely identify a single row in the table. The column list also indicates whether the column is a mandatory attribute that must be included in every row.

**Table 3-1. Database Tables Listing (1 of 2)**

Table Name	Logical Grouping
OmActionQueue	Order Manager
OmActionType	Order Manager
OmAddress_R	Archive
OmAgingConfig	Order Manager
OmArchive	Order Manager
OmBundlingOrder	Order Manager
OmBundlingOrder_R	Archive
OmChecksumRequestors	Order Manager
OmCleanupProcesses	Archive
OmCode	Order Manager
OmCompressedEsdts	Order Manager
OmConfigDestination	Order Manager
OmConfigParameter	Order Manager
OmConfigRetTimePeriod	Order Manager
OmDestStatistics	Order Manager
OmDevice	Physical Media Distribution
OmDeviceMediaXref	Physical Media Distribution
OmDuplicateCheck	Order Manager
OmEsdtRef	Physical Media Distribution
OmEsdtToDelete	Order Manager
OmExplanation	Order Manager
OmExternalProcessor	Order Manager
OmFile	Order Manager
OmGranule_R	Archive
OmGranuleCounts	Order Manager
OmGranuleDelivery	Physical Media Distribution
OmJewelCase	Physical Media Distribution
OmMediaType	Order Manager
OmNotification	Order Manager
OmOdIIMetadataRequestors	Order Manager
OmOperatorAlert	Order Manager
OmOperatorIntervention	Order Manager
OmOrder_R	Archive
OmPrinterConfig	Physical Media Distribution
OmProcessingInstruction	Order Manager
OmProcessorRequestXref	Order Manager
OmProductJob	Physical Media Distribution
OmProductJob_R	Archive

**Table 3-1. Database Tables Listing (2 of 2)**

Table Name	Logical Grouping
OmProductModule	Physical Media Distribution
OmQueue	Order Manager
OmReqGrInput	Line Item Processing
OmReqGrOutput	Line Item Processing
OmRequest	Order Manager
OmRequest_R	Archive
OmRequest_Temp	Archive
OmRequestGranPI	Line Item Processing
OmRequestGranPI_R	Archive
OmRequestGranPI_Temp	Archive
OmRequestGranule	Line Item Processing
OmRequestGranule_Temp	Archive
OmRequestInterventions	Order Manager
OmRequestNotes	Order Manager
OmRequestNotes_R	Archive
OmStagingConfig	Order Manager
OmStagingCounts	Order Manager
OmStagingStatistics	Order Manager
OmStatus	Order Manager
OmSubSettingInfo	Order Manager
OmSuspendedDestination	Order Manager
OmTerminalEchoRequest	Order Manager
OmUsersToDelete	Order Manager
EcDbDatabaseVersions	Database Versioning

Table 3-2 OmActionQueue represents the current set of actions that are queued.

**Table 3-2. OmActionQueue**

Name	Data Type	PK Column	Mandatory Column
ActionQueueId	numeric(9)	Yes	Yes
ActionInfo	varchar(255)	No	No
ActionPriority	tinyint	No	Yes
ActionStatus	tinyint	No	Yes
ActionType	char(2)	No	Yes
CompletionTime	datetime	No	No
DispatchInfo	varchar(100)	No	No
EnqueueTime	datetime	No	Yes
GranId	numeric(16)	No	No
LastUpdate	datetime	No	Yes
NotificationId	numeric(9)	No	No
PickedTime	datetime	No	No
Pid	int	No	No
RequestId	varchar(10)	No	No
RetryCount	tinyint	No	No

### Valid Queue Actions

Action Type	Description	ActionInfo
A	Acceptance Notification (Data Pool web drill down)	
AE	Alert Email	<AlertType>:<AlertObject>:EMAIL:<AlertEmailAddress>
AH	Accept HEG request	
AM	Activate Media Request	<Device>
AR	Archive Resumed	<Archive Name>
AS	Archive Suspended	<Archive Name>
D	Distribution	
DA	Destination Added	<Destination Name>
DC	Destination Change (not staging related)	<Destination Name>
DD	Destination Deleted	<Destination Name>
DR	Destination Resumed	<Destination Name>
DS	Destination Suspended	<Destination Name>
E	Email	
EF	Email Failed	EMAIL:<EmailFailedAddress>
ER	Email Resumed	
ES	Email Suspended	
FA	File System Active (Data Pool originated)	<FS>
FC	File System Changed (Data Pool notification)	<FS>
FD	File System Down (Data Pool originated)	<FS>

(Cont'd)

Action Type	Description	ActionInfo
FM	File System Collection Removed (Data Pool notification)	FileSystemPath:GroupId:EsdtName:InsertEnabledFlag:ExclusionFlag
FN	File System Change Completed (Data Pool notification)	FileSystemPath:GroupId:EsdtName:InsertEnabledFlag:ExclusionFlagFSOLD:<GROUP>::<FS>::<Collection>:FSNEW:<GROUP>::<FS>::<Collection>
FP	File System Collection Added (Data Pool notification)	FileSystemPath:GroupId:EsdtName:InsertEnabledFlag:ExclusionFlag
GA	Granule Added	
GF	Granule Failed staging	
GG	Granule Failed	
GS	Granule staged	<OrderOnly DPL>
MC	Media Type Changed	<MediaType>
MD	Product Module Deleted	<ProdModuleId>
MR	Media Resumed	<MediaType>
MS	Media Suspended	<MediaType>
N	Distribution Notice	EMAIL:<email address>
NR	Resume New Requests	
NS	Suspend New Requests	
PC	PDS Distribution Succeeded	

(Cont'd)

Action Type	Description	ActionInfo
PF	PDS Distribution Failed	
PL	S4 FTP Pull Cleanup Action	
PR	Submission to PDS Resumed	
PS	Submission to PDS Suspended	
PT	Print	Type of print action
QR	Queue Resume	<QueueName>
QS	Queue Suspended	<QueueName>
R	Resubmit Request	
RA	Resume Queue Processing	
RC	Request canceled	USERID:<UserId>::<reason text>
RD	Request done	
RF	Request FtpPush Parameter Changed	
RH	Reject HEG request	
RP	Priority Changed	
RR	Request Resumed	
RS	Request Suspended	
RW	Resume Global Staging	
RX	Request Changed	<FieldName>:NewValue



(Cont'd)

Action Type	Description	ActionInfo
S	Shipped	
SA	Suspend Queue Processing	
SC	Staging Parameter Change	[D M]:<MediaType/DestinationName>
SR	Submission to AIM Resumed	
SS	Submission to AIM Suspended	
SW	Suspend Global Staging	
TR	Stop request	
TV	Stop volume	VolumeName
V	Validate	
VC	Volume Status Change	VolumeName:Status

Table 3-3 OmActionType represents the valid set of actions used by OMS.

**Table 3-3. OmActionType**

Name	Data Type	PK Column	Mandatory Column
ActionType	char(2)	Yes	Yes
Description	varchar(100)	No	Yes

Valid ActionTypes

Action Type	Description
A	Acceptance Notification (Data Pool web drill down)
AD	Scp Destination Added
AE	Alert Email
AH	Accept HEG request
AM	Activate Media Request
AP	Assemble Package
AR	Archive Resumed
AS	Archive Suspended
CD	Scp Destination Changed
CH	Cancel HEG Processing
CP	Scp Stage Parameter Changed
D	Distribution
DA	Destination Added
DC	Destination Change (not staging related)
DD	Destination Deleted
DF	Device Check
DG	Decompressed Granule
DR	Destination Resumed
DS	Destination Suspended
DU	Device Updated
E	Email
EA	Action Email
EF	Email Failed
ER	Email Resumed
ES	Email Suspended
FA	File System Active (Data Pool originated)
FC	File System Changed (Data Pool notification)
FD	File System Down (Data Pool originated)
FM	File System Collection Removed (Data Pool notification)
FN	File System Change Completed (Data Pool notification)
FP	File System Collection Added (Data Pool notification)
GA	Granule Added
GF	Granule Failed Staging
GG	Granule Failed
GS	Granule Staged
HE	HEG Error
HP	HEG Process
HR	Submission to HEG Resumed
HS	Submission to HEG Suspended

(Cont'd)

Action Type	Description
MA	Media Assignment For Request (or Volume)
MC	Media Type Changed
ME	Media Creation Error
MQ	Mount Media For QC
MR	Media Resumed
MS	Media Suspended
MV	Verify Media Request
N	Distribution Notice
NR	Resume New Requests
NS	Suspend New Requests
OI	Operator Intervention
P2	Cleanup External Processor Temporary Files
PA	Print Action (summary)
PC	PDS Distribution Succeeded
PT	Print Action
PL	S4 FTP Pull Cleanup Action
PR	Submission to PDS Resumed
PS	Submission to PDS Suspended
QC	QC Action For Request
QD	QuickServer Not Reachable
QF	QC Failed
QN	Activate Request for QC
QM	Media Mounted for QC
QR	Queue Resume
QS	Queue Suspended
QU	QuickServer Not Reachable
R	Resubmit Request
RA	Resume Queue Processing
RC	Request canceled
RD	Request Done
RF	Request FtpPush Parameter Changed
RH	Reject HEG Request
RN	Operator Request Activation
RO	Rimage Timeout
RP	Request Changed
RR	Request Resumed
RS	Request Suspended
RU	Rimage Timeout
RW	Resume Global Staging
S	Shipped

(Cont'd)

Action Type	Description
S3	Synergy III Request
SA	Suspend Queue Processing
SC	Staging Parameter Change
SD	Scp Destination Deleted
SE	SN Failure Email
SM	Scp Destination Resumed
SN	scp Distribution Notice
SP	Scp Destination Suspended
SR	Submission to AIM Resumed
SU	Request scp Update
SS	Submission to AIM Suspended
SW	Suspend Global Staging
TR	Stop Request
TV	Stop volume
V	Validate
VC	Volume Status Change
XA	Allocate Device
XC	Collect Media For QC
XD	Dismount Media From Production
XM	Mount Media For Production
XS	Prepare For Shipment

Table 3-4 OmAddress\_R contains archived addresses for requests.

**Table 3-4. OmAddress\_R (1 of 2)**

Name	Data Type	PK Column	Mandatory Column
orderId	varchar(10)	No	No
userId	varchar(14)	No	No
homeDAAC	char(3)	No	No
title	char(5)	No	No
firstName	varchar(20)	No	No
middleInit	char(1)	No	No
lastName	varchar(20)	No	No
eMailAddr	varchar(255)	No	No
organization	varchar(60)	No	No
mailAddrStreet1	varchar(32)	No	No
mailAddrStreet2	varchar(32)	No	No
mailAddrStreet3	varchar(32)	No	No

**Table 3-4. OmAddress\_R (2 of 2)**

<b>Name</b>	<b>Data Type</b>	<b>PK Column</b>	<b>Mandatory Column</b>
mailAddrCity	varchar(35)	No	No
mailAddrState	varchar(20)	No	No
mailAddrZip	varchar(15)	No	No
mailAddrCountry	varchar(30)	No	No
mailAddrPhone	varchar(22)	No	No
mailAddrFax	varchar(22)	No	No
billContactTitle	char(5)	No	No
billContactName_First	varchar(20)	No	No
billContactName_MI	char(1)	No	No
billContactName_Last	varchar(20)	No	No
billEMailAddr	varchar(255)	No	No
billContactOrg	varchar(60)	No	No
billAddrStreet1	varchar(32)	No	No
billAddrStreet2	varchar(32)	No	No
billAddrStreet3	varchar(32)	No	No
billAddrCity	varchar(35)	No	No
billAddrState	varchar(20)	No	No
billAddrZip	varchar(15)	No	No
billAddrCountry	varchar(30)	No	No
billAddrPhone	varchar(22)	No	No
billAddrFax	varchar(22)	No	No
shipContactOrg	varchar(60)	No	No

Table 3-5 OmAgingConfig contains the aging policy used globally for each ECS priority.

**Table 3-5. OmAgingConfig**

<b>Name</b>	<b>Data Type</b>	<b>PK Column</b>	<b>Mandatory Column</b>
AgingConfigId	numeric(9)	Yes	Yes
MaxPriLevel	float	No	No
agingStep	float	No	No
ECSPriority	char(15)	No	No
IntPriority	tinyint	No	No

Table 3-6 OmArchive contains a list of Storage bins used for staging to the Data Pool.

**Table 3-6. OmArchive**

<b>Name</b>	<b>Data Type</b>	<b>PK Column</b>	<b>Mandatory Column</b>
ArchiveId	numeric(9)	Yes	Yes
ArchiveName	varchar(75)	No	No
ArchiveStatus	char(1)	No	No
LastUpdate	datetime	No	No
ArchiveExplanation	smallint	No	No

Table 3-7 OmBundlingOrder holds the information pertaining to bundled orders for which subscriptions will be submitted against.

**Table 3-7. OmBundlingOrder**

<b>Name</b>	<b>Data Type</b>	<b>PK Column</b>	<b>Mandatory Column</b>
BundlingOrderId	varchar(10)	Yes	Yes
BundlingOrderStatus	tinyint	No	Yes
RequestId	varchar(10)	No	Yes
MediaTypeId	tinyint	No	Yes
BundlingOrderPriority	tinyint	No	Yes
ExpirationDate	datetime	No	Yes
MinBundleSize	float	No	Yes
MinBundleGranCnt	int	No	Yes
MaxBundleAge	float	No	Yes
LastAccess	datetime	No	Yes

Table 3-8 OmBundlingOrder\_R holds the archive information pertaining to bundled orders.

**Table 3-8. OmBundlingOrder\_R**

<b>Name</b>	<b>Data Type</b>	<b>PK Column</b>	<b>Mandatory Column</b>
RequestId	varchar(10)	No	No
BundlingOrderId	varchar(10)	No	No
ExpirationDate	datetime	No	No
BundlingOrderStatus	tinyint	No	No

Table 3-9 OmChecksumRequestors tracks requestors to be notified of checksum errors.

**Table 3-9. OmChecksumRequestors**

Name	Data Type	PK Column	Mandatory Column
EmailAddr	varchar(255)	Yes	Yes
LastUpdate	datetime	No	No

Table 3-10 OmCleanupProcesses tracks instance of Cleanup as it runs in OMS database.

**Table 3-10. OmCleanupProcesses**

Name	Data Type	PK Column	Mandatory Column
spid	smallint	No	Yes
kpId	int	No	Yes
cutOffDate	datetime	No	Yes
numRequestsProcessed	int	No	Yes

Table 3-11 OmCode contains codes used in various tables and serves as a repository and reference for ad hoc querying.

**Table 3-11. OmCode**

Name	Data Type	PK Column	Mandatory Column
Code	varchar(30)	Yes	Yes
TableName	varchar(30)	Yes	Yes
Description	varchar(255)	No	No

Table 3-12 OmCompressedEsdtS contains list of compressed EsdtS.

**Table 3-12. OmCompressedEsdtS**

Name	Data Type	PK Column	Mandatory Column
EsdtName	varchar(30)	No	No
LastUpdated	datetime	No	No

Table 3-13 OmConfigDestination contains Ftp Push Destination information as configured by the DAAC operator.

**Table 3-13. OmConfigDestination**

<b>Name</b>	<b>Data Type</b>	<b>PK Column</b>	<b>Mandatory Column</b>
DestinationId	numeric(9)	Yes	Yes
DestinationName	varchar(75)	No	No
DestinationHost	varchar(100)	No	No
Directory	varchar(255)	No	No
CreationTime	datetime	No	No
DestDispatchStatus	char(1)	No	No
MinThroughput	float	No	No
Notes	varchar(255)	No	No
LastUpdate	datetime	No	No
TimeOut	float	No	No
RetryMode	char(1)	No	No
RetryInterval	float	No	No
MaxConnections	int	No	No
MediaTypeId	tinyint	No	Yes
DisableChecksum	char(1)	No	Yes

Table 3-14 OmConfigParameter contains the dynamic configuration parameters for the OmServer. These parameters will be able to be modified without re-booting the OmServer.

**Table 3-14. OmConfigParameter**

<b>Name</b>	<b>Data Type</b>	<b>PK Column</b>	<b>Mandatory Column</b>
ConfigId	numeric(3)	Yes	Yes
ParameterName	varchar(50)	No	Yes
ParameterType	char(1)	No	Yes
Units	varchar(10)	No	No
ParameterDesc	varchar(100)	No	Yes
IntValue	int	No	No
CharValue	varchar(255)	No	No
FloatValue	float	No	No
Category	char(1)	No	No



### Valid Configuration Parameter Values

ParameterName	ParameterDesc
NUM_OF_ALLOWED_EMAIL_SUBMISSIONS	Max Number of concurrent submissions to PDS
CHILD_PROCESS_TIME_LIMIT	Amount of time to wait to kill child process before retrying action
DELETE_COMPLETE_INTERVENTIONS_AFTER	Time in hours Completed Interventions are maintained
DELETE_COMPLETE_ACTIONS_AFTER	Time in hours Completed Actions are maintained
MAX_REQUEST_GRANULES	Maximum number of granules a request may contain
MAX_SUBSET_GRANULES	Maximum number of granules a request may contain if it specifies subsetting
MAX_BUNDLE_AGE	Default maximum bundle age in days or fractions of days
MIN_BUNDLE_GRANULES	Default minimum bundle granule count
DELAY_PARTITION	Time delay in hours each successive partition is supposed to be dispatched
MAX_ACTION_RETRIES	Maximum number of times an action can be retried before the request is FAILED
IDLE_SLEEP_TIME	Length of time between OM Server checks for config parameters
ACTION_RETRY_WAIT	Time in seconds the OmServer waits before attempting to re-dispatch an action
NUM_OF_ALLOWED_VALIDATIONS	Number of threads the OMServer uses for performing request validations action
ACTION_CHECK_INTERVAL	Time in seconds the OmServer waits before checking on actions
CLEANUP_CHECK_INTERVAL	Time in seconds the OmServer waits before performing cleanup activities
SUSPEND_CHECK_INTERVAL	Time in seconds the OmServer waits before performing checking suspended queues
MAX_CONCURRENT_REQUESTS_PROCESSED	Number of concurrent requests the Om Server will process at one time
BUNDLE_EXPIRATION_PERIOD	Number of days until the Bundling Order Expires
NOTIFY_USER_FOR_PARTITION_REQUESTS	Whether or not user want to recieve notification when partition happens yes or no
GLOBAL_STAGING_STATUS	Synergy IV Staging Mode Status
PROCESSING_MODE	Synergy IV Processing Mode Status
MAX_CONCURRENT_FTPUSH_OPS	Max allowable Ftp Push Ops
NEW_REQUEST_PROCESSING	Indicates whether new request processing is suspended <A/S>
MIN_MODERATE_REQUEST	min number of tape mounts classified Moderate

Valid Configuration Parameter Values (Cont'd)

<b>ParameterName</b>	<b>ParameterDesc</b>
MIN_EXPENSIVE_REQUEST	min number of tape mounts classified Expensive
MAX_CHEAP_REQUESTS	Max number of Concurrent requests classified as Cheap that can be promoted to staging
MAX_MODERATE_REQUESTS	Max number of Concurrent requests classified as Moderate that can be promoted to staging
MAX_EXPENSIVE_REQUESTS	Max number of Concurrent requests classified as Expensive that can be promoted to staging
MAX_FAILED_PUSH_OPS	maximum allowable FTP Push op failures before suspending a destination
PULL_GRAN_DPL_TIME	amt of time to keep granules associated with FTP Pull requests in the DPL
PULL_GRAN_DPL_RET_PRI	Retention priority for the DPL to associate with granules from FTP Pull req
MIN_PRI_TO_PREEMPT	Min priority for a request to qualify for preemptive staging
MAX_FAILURE_ARCHIVE	Allowable number of failures prior to suspending Archive
GLOBAL_CONFIGURED_EMAIL	Configured email account to send actions to when an alert or intervention is generated
MAX_ORPHAN_REQ_AGE	How long to keep an orphaned request in system before it is qualified for removal
CLEANUP_ORPHAN_REQ_PERIOD	How oftenly to cleanup orphaned requests
FORWARD_DN_EMAIL	Configured email account for forwarded DN Email
UNSUCCESS_REQ_RET_TIME	Amount of time in hours to keep unsuccessful requests/orders in MSS/OMS
DUP_LOOKUP_HOURS	Number of hours to look back for duplicate checking
CLEANUP_DELAY_INTERVAL	The delay time interval for cleanup granules.
MAX_NUM_OF_CONCURRENT_HEG_PROCESS	The maximum number of HEG Service requests that my be processed concurrently.
MAX_NUM_OF_CONCUR_HEG_PROC_PER_REQ	The maximum number of HEG Service requests that may be processed concurrently for a single request.
HEG_PROCESS_RETRY_INTERVAL	Retry interval for automatic retry in case the queue is suspended automatically.
DUE_DATE_FOR_MEDIA_REQUEST	Number of hours from the time the request finished staging that request is due for distribution
GLOBAL_CONFIGURED_OPERATOR_ACTIONS_EMAIL	Configured email account to send operator actions to.

Valid Configuration Parameter Values (Cont'd)

<b>ParameterName</b>	<b>ParameterDesc</b>
QC_TIMEOUT	The maximum time (minutes) QC is allowed to run before generating an intervention
PRODUCTION_TIMEOUT	The maximum time (minutes) Production is allowed to run before generating an intervention
MEDIA_PREP_TIMEOUT	The maximum time (minutes) Media Preparation is allowed to run before generating an intervention
RIMAGE_ORDER_PULL_TIME	Configured maximum time interval in minutes within which an Rimage order is expected to be pulled by
NUM_OF_ALLOWED_GRANULE_PROCESSORS	Number of Allowed Granule Processors
MAX_ORDER_HISTORY_DAYS	Number of days users can search back for order history
MAX_CONCURRENT_SCP_OPS	Max allowable scp Ops
MAX_FAILED_SCP_OPS	maximum allowable scp ops failures before suspending a destination
LUMINEX_TIMEOUT	maximum minutes which the PM will wait for Luminex during a CD/DVD media order
MEDIA_DEVICE_CHECK_INTERVAL	Interval to recheck device on-line status and perform automatic assignment
STAGING_ACTION_RETRIES	No of Retries for Staging Action
STAGING_ACTION_RETRY_INTERVAL	Interval for Retry of Staging Actions
DROP_VERSION	Custom Code Version Currently In Use
FSSTATE_INTERVAL	Minimum amount of time allowed between fsstat calls
STORNEXT_TIMEOUT	The maximum time fsstat, fileincache, or filevolume are allowed to run before timing out
MAX_NO_COST_REQUESTS	Max number of Concurrent requests classified as No Cost (All Granules in DataPool) that can be promo
MAX_NO_COST_GRANULES	Max number of concurrent datapool granules that can be promoted to staging
MAX_CONCURRENT_CHECKSUMS	Max number of concurrent checksum operations
ENABLE_PERFORMANCE_LOGGING	Turn on performance logging

Table 3-15 OmConfigRetTimePeriod Stores length of time to retain orders in MSS for specific media/client combos.

**Table 3-15. OmConfigRetTimePeriod**

Name	Data Type	PK Column	Mandatory Column
RetTimePeriodId	numeric(9)	Yes	Yes
OrderSource	char(1)	No	No
MediaTypeId	tinyint	No	Yes
RetTimePeriod	float	No	No

Table 3-16 OmDestStatistics contains historical copy of FTP Push throughput for each FTP Push destination. Calculated and stored once every 15 minutes.

**Table 3-16. OmDestStatistics**

Name	Data Type	PK Column	Mandatory Column
DestinationId	numeric(16)	Yes	Yes
IntervalStart	datetime	Yes	Yes
IntervalStop	datetime	Yes	Yes
MinPushThrpt	float	No	No
MaxPushThrpt	float	No	No
AvgPushThrpt	float	No	No
NumFailed	int	No	No
NumPushed	int	No	No
SizePushedMB	float	No	No
DestinationHost	varchar(100)	No	Yes
SizeFailedMB	float	No	No

Table 3-17 OmDevice Contains information necessary for configuring and managing devices. Specifies devices available for each mediaType. Located in the EcGlobalDb database.

**Table 3-17. OmDevice (1 of 2)**

Name	Data Type	PK Column	Mandatory Column
DeviceId	numeric(9)	Yes	Yes
Label	varchar(20)	No	Yes
Path	varchar(255)	No	No
DriveLetter	char(1)	No	No
Description	varchar(255)	No	No
DevicePurpose	varchar(20)	No	No

**Table 3-17. OmDevice (2 of 2)**

<b>Name</b>	<b>Data Type</b>	<b>PK Column</b>	<b>Mandatory Column</b>
WorkloadActual	float(8)	No	No
WorkloadAllocated	float(8)	No	No
WorkloadLimit_Allocated	float(8)	No	No
WorkloadLimit_Actual	float(8)	No	No
Status	varchar(30)	No	No
Online_Status	char(1)	No	No
Explanation	varchar(255)	No	No
CreationDate	datetime	No	No
LastUpdate	datetime	No	No
ntqcFlag	char(1)	No	No
Mode	char(5)	No	No
ModeReserved	char(5)	No	No
BlkSize	int	No	No
SerialPrepFlag	char(1)	No	No
FtpHost	varchar(255)	No	No
FtpUser	varchar(50)	No	No
FtpPass	varchar(50)	No	No
RequestId	varchar(10)	No	No
VolumeName	char(9)	No	No
WorkloadLimit_Jobs	int	No	No

Table 3-18 OmDeviceMediaXref contains Cross Reference data between OmMediaType and OmDevice. Located in the EcGlobalDb database.

**Table 3-18. OmDeviceMediaXref**

<b>Name</b>	<b>Data Type</b>	<b>PK Column</b>	<b>Mandatory Column</b>
Deviceld	numeric(9)	Yes	Yes
MediaTypeld	tinyint	Yes	Yes

Table 3-19 OmDuplicateCheck Used by DPL to prevent duplicate order submission.

**Table 3-19. OmDuplicateCheck**

Name	Data Type	PK Column	Mandatory Column
OrderId	varchar(10)	No	Yes
RequestId	varchar(10)	Yes	Yes
UserCheckSum	varchar(128)	Yes	Yes
UserEmail	varchar(255)	No	No
InsertTime	datetime	No	No

Table 3-20 OmEsdtRef contains the defined production modules to be used for processing an ECS collection.

**Table 3-20. OmEsdtRef**

Name	Data Type	PK Column	Mandatory Column
ProdModuleId	numeric(9)	Yes	Yes
EsdtType	char(12)	Yes	Yes

Table 3-21 OmEsdtToDelete contains ESDTs not kept in DPL post 7.21 LTO install.

**Table 3-21. OmEsdtToDelete**

Name	Data Type	PK Column	Mandatory Column
ShortName	char(8)	No	Yes
VersionId	tinyint	No	Yes

Table 3-22 OmExplanation contains the static explanation associated with either a granule or a request.

**Table 3-22. OmExplanation**

Name	Data Type	PK Column	Mandatory Column
ExplanationCode	smallint	Yes	Yes
Explanation	varchar(75)	No	Yes
MediaFlag	char(1)	No	No

## Valid Explanation Codes

<b>ExplanationCode</b>	<b>Explanation</b>
10	Maximum Request Size Exceeded
20	Maximum Granule Count Exceeded
30	Media Capacity Exceeded
40	Inaccessible due to DFA
50	Invalid UR/Granule Not Found
60	Inaccessible - Restricted Granule
70	Max Retry Reached
80	Granule has been Logically Deleted
90	Granule exceeds media capacity
100	Max Subset Granule Count Exceeded
109	Minimum Request Size Violation
110	Request Resubmitted
111	Failed transferring
112	Failed staging (Fatal)
113	Long Running Stage
114	Max time allowed for Ftp Push Exceeded
115	Max allowable Ftp Push op failures exceeded
116	Allowable number of retries for Ftp Push Exceeded
117	Ftp Login Errors
118	File System Suspended
119	Consecutive Inserts from Archive Failure Limit Exceeded
120	Archive Host Cannot be Reached
121	Access to AMASS file system Failed
122	Submission to PDS Suspended
123	Submission to AIM Suspended
124	File System Changed
125	File System Change Completed
126	Failed by Operator
127	Request Canceled

(Cont'd)

<b>ExplanationCode</b>	<b>Explanation</b>
128	Archive suspended by operator
129	Archive resumed by operator
130	Request suspended by Operator
131	Request resumed by Operator
132	Destination suspended by Operator
133	Destination resumed by Operator
134	Granule with invalid size
135	Request failed by PDS
136	Request suspended by Server
137	Request resumed by Server
138	Destination suspended by Server
139	Destination resumed by Server
140	File system is not available
141	No free space in the File System
142	FtpPush Host not reachable
143	FtpPush destination disk space is full
144	Invalid Host Address
145	FtpPush Directory does not Exist or No Write Permission
146	FtpPush destination write failed
147	FtpPush File Missing or Unable to Open the File
148	Host Unreachable
149	QuickServer Unreachable
150	Duplicate Request exists
151	Request contains no granules
152	File Size on Ftp Daemon does not match file size sent by client
153	File not found in archive
154	Database error
155	Granule failed staging
156	Transfer failed
157	Granule file not found
162	Distribution Notification Failed
163	Package Assembled
164	Package Not Assembled
165	Media Dismounted Confirmed
166	Package Assembled/Media Dismounted Confirmed
167	QC Canceled
168	Mount Complete
169	Dismount Complete
170	Mount Failed
171	Dismount Failed



(Cont'd)

<b>ExplanationCode</b>	<b>Explanation</b>
172	Request Activated
173	Media Collection Failed
174	Media Collection Complete
175	Physical Media Creation Error
176	QC Failed
177	Production Module Error
178	Media Volume Failed Verification
179	QC Error
180	Synergy III request (not allowed)
181	Media Creation Error
182	HEG Line items failed
183	Allocated to Synergy III mode processing
184	Waiting For device assignment
185	Media Mounted
186	Media Mount Confirmed
187	PDS Platform Unavailable
188	Device Marked Off-line by Operator
189	Device Marked Off-line by Server
190	Media Creation Stopped
191	Write Error
192	Missing entries in metadata file
193	Tape archive failure
194	Rimage cd/dvd creation failure
195	Rimage cd/dvd creation timeout
196	Error creating summary file
197	Error creating tape label file
198	Invalid tape Drive
199	Invalid Rimage Drive
200	Replaced by Operator
201	Waiting For Media Mount
202	Collect Media For QC
203	Creating Links in Staging directory failed
204	Copying of Summary file from summary dir to staging dir failed
210	Create link to the public directory failed.
220	HEG service is not available
221	Granule fail for HEG processed
222	Heg Server Unreachable
223	Heg Request Cancelled
224	Heg Request Rejected
225	Heg Processing Error

(Cont'd)

<b>ExplanationCode</b>	<b>Explanation</b>
226	Request Failed Final Heg Validation
227	Reading of HDF file failed
228	Heg File Createion or Write Error
229	Heg Converter Error
230	Heg Input Data Error
231	Media Preparation Timeout
232	Media Creation Timeout
233	Media Verification Timeout
234	Media Preparation Failed
235	Invalid Password
236	Server has Suspended OMS Media
237	No Devices available for Request
238	Media Creation success
239	Media Verification success
300	Scp Ssh file copy failed
301	Scp Destination is not a directory
302	Scp Connect to host failed
303	Scp Connection lost
304	Scp Source file doesn't exist
305	Scp No read permission
306	Scp No write permission
307	Scp Ssh file transfer error
308	Scp Protocal Mismatch
309	Scp Invalid commandline options
310	Scp Connect time out
311	Scp Invalid password
312	Scp Read time out
313	Scp Process killed
314	Scp Destination directory doesn't exist
315	Scp Unknown error
316	Scp Directory access error
317	Scp Source file is a directory
318	Scp Copy Server is down
319	Scp Granule doesn't have any files
320	Scp CheckExpiredAction detects a time out
321	Archive Suspended by DataPool
322	Archive Resumed by DataPool
323	Failed Validation Of Configured Destination
324	Failed Validation, Request MediaType Is Different Than Destination MediaType
325	Failed Validation, Error setting metadata format for request

Table 3-23 OmExternalProcessor contains information associated with external processor.

**Table 3-23. OmExternalProcessor**

Name	Data Type	PK Column	Mandatory Column
ProcessorId	numeric(9)	Yes	Yes
ProcessorName	varchar(30)	No	Yes
DNEmailAddr	varchar(255)	No	No
AddPreambleText	varchar(255)	No	No
Endpoint	varchar(255)	No	Yes
Status	varchar(30)	No	Yes
FtpPullRetainHours	int	No	No
LastUpdate	datetime	No	Yes
CreationDate	datetime	No	Yes

Table 3-24 OmFile contains metadata file information associated with a granule.

**Table 3-24. OmFile**

Name	Data Type	PK Column	Mandatory Column
FileId	numeric(16)	Yes	Yes
GranId	numeric(16)	No	No
FileType	char(1)	No	No
DirectoryPath	varchar(255)	No	No
FileName	varchar(255)	No	No
FileSize	float	No	No
ChkSum	varchar(128)	No	No
ChkSumTypeid	tinyint	No	No
LastChecksumTime	datetime	No	No

Table 3-25 OmGranuleCounts contains intermediate results pertaining to request status counts.

**Table 3-25. OmGranuleCounts**

Name	Data Type	PK Column	Mandatory Column
GranId	numeric(16)	No	Yes
RequestId	varchar(10)	No	Yes
MediaTypeId	tinyint	No	No
DestinationId	numeric(9)	No	No
GrStatus	tinyint	No	No
GranuleSize	float	No	No
GranSource	char(1)	No	No

Table 3-26 OmGranuleDelivery contains production granules associated with a specific production job.

**Table 3-26. OmGranuleDelivery**

Name	Data Type	PK Column	Mandatory Column
GranuleDeliveryId	numeric(9)	Yes	Yes
GranId	numeric(16)	Yes	Yes
ProductJobId	numeric(9)	No	No
LastUpdate	datetime	No	No

Table 3-27 OmGranule\_R contains granule level archived data.

**Table 3-27. OmGranule\_R**

Name	Data Type	PK Column	Mandatory Column
RequestId	varchar(10)	No	No
GranId	numeric(16)	No	No
RequestGrStatus	tinyint	No	No
ExplanationCode	smallint	No	No
LastUpdate	datetime	No	No
BillingInfo	varchar(50)	No	No
ECS_GranuleId	numeric(16)	No	No
DPL_GranuleId	numeric(16)	No	No
GranuleSize	float(8)	No	No
EsdtType	char(12)	No	No
GranType	char(2)	No	No
Archiveld	numeric(9)	No	No
GranSource	char(1)	No	No
ExternalCatalogItemId	varchar(255)	No	No
UserString	varchar(255)	No	No

Table 3-28 OmJewelCase defines attributes associated with the Jewel Case printer used to print Jewel Case inserts.

**Table 3-28. OmJewelCase (1 of 2)**

Name	Data Type	PK Column	Mandatory Column
JewelCaseId	numeric(5)	Yes	Yes
ProdModuleId	numeric(9)	No	Yes

**Table 3-28. OmJewelCase (2 of 2)**

Name	Data Type	PK Column	Mandatory Column
ImageFileLoc	varchar(30)	No	No
TextFileLoc	varchar(30)	No	No
TextFile2Loc	varchar(30)	No	No
Jewel_rpt	varchar(10)	No	No

Table 3-29 OmMediaType contains those parameters which are specific for each type of media.

**Table 3-29. OmMediaType**

Name	Data Type	PK Column	Mandatory Column
MediaTypeId	tinyint	Yes	Yes
MediaType	varchar(20)	No	Yes
MediaCapacity	float(8)	No	Yes
LastUpdate	datetime	No	Yes
MinBundleSize	float(8)	No	Yes
MaxRequestSize	float(8)	No	Yes
PartitionGranuleLimit	int	No	Yes
PartitionSizeLimit	float(8)	No	Yes
QueueName	varchar(10)	No	Yes
QSuspendState	char(1)	No	Yes
MinRequestSize	float(8)	No	Yes
DispatchMode	char(1)	No	Yes
MediaCreationType	char(3)	No	No
QC_default	int	No	No
QC_Dorran_default	int	No	No
MediaCreaDevLimit	int	No	No
MediaQCDevLimit	int	No	No
MinDaysBetweenChecksum	int	No	Yes

Table 3-30 OmNotification stores email notification information. The notification will be referenced by an action.

**Table 3-30. OmNotification (1 of 2)**

Name	Data Type	PK Column	Mandatory Column
NotificationId	numeric(9)	Yes	Yes
RequestId	varchar(10)	No	No
OperatorInterventionId	numeric(9)	No	No

**Table 3-30. OmNotification (2 of 2)**

<b>Name</b>	<b>Data Type</b>	<b>PK Column</b>	<b>Mandatory Column</b>
NotificationStatus	tinyint	No	No
LastUpdate	datetime	No	Yes
OperatorText	varchar(255)	No	No
AlertId	numeric(9)	No	No

Table 3-31 OmOdI\_MetadataRequestors contains a list of email addresses for users that wish to have their metadata distributed in ODL Format.

**Table 3-31. OmOdI\_MetadataRequestors**

<b>Name</b>	<b>Data Type</b>	<b>PK Column</b>	<b>Mandatory Column</b>
EmailAddr	varchar(255)	Yes	Yes
LastUpdate	datetime	No	No

Table 3-32 OmOperatorAlert contains Alert relative information for both general, distribution, and request related alerts.

**Table 3-32. OmOperatorAlert**

<b>Name</b>	<b>Data Type</b>	<b>PK Column</b>	<b>Mandatory Column</b>
AlertId	numeric(9)	Yes	Yes
CreationTime	datetime	No	No
CompletionTime	datetime	No	No
AlertExplanation	smallint	No	No
AlertType	char(2)	No	No
AlertInfo	varchar(255)	No	No
AlertStatus	char(1)	No	No

Valid ALERT Types

Alert Description	AlertType	AlertInfo
Notifying OMS that a file system is down	FD	<FS>
Notifying OMS that a file system is up	FA	<FS>
Notify OMS that a file system is being modified	FC	<FS>
Notify OMS that the modification for FS has completed and inform of new FS	FN	FSOLD:<GROUP>::<FS>:::<Collection>:FSNEW:<GROUP>::<FS>:::<Collection>
Destination Suspended	DS	<Destination Name>
Destination Resumed	DR	<Destination Name>
AIM Suspended	SS	AIM
AIM Resumed	SR	AIM
PDS Suspended	PS	PDS
PDS Resumed	PR	PDS
Archive Suspended	AS	<Archive Name>
Archive Resumed	AR	<Archive Name>
QuickSilver Down	QD	
QuickSilver Resumed	QR	

Table 3-33 OmOperatorIntervention contains information relative to requests that require a User Services' Operator to act upon.

**Table 3-33. OmOperatorIntervention**

Name	Data Type	PK Column	Mandatory Column
OperatorInterventionId	numeric(9)	Yes	Yes
RequestId	varchar(10)	No	Yes
WorkedBy	varchar(14)	No	No
CreationTime	datetime	No	Yes
AckTime	datetime	No	No
CompletionTime	datetime	No	No
Outcome	varchar(50)	No	No
InterventionStatus	tinyint	No	Yes
OperatorNotes	varchar(255)	No	No
InterventionType	char(2)	No	No

Intervention Type	Description	RequestStatus
HE	HEG Error	Operator Intervention
ME	Media Creation Error	Operator Intervention
OI	Operator Intervention	Operator Intervention
QF	QC Failed	Operator Intervention
S3	Synergy III Request	Operator Intervention
RN	Activate Media Request	Pending Media Prod
XM	Mount Media For Production	Pending Media Prod   Transferring
AP	Assemble Package	Waiting for Shipment
MQ	Mount Media For QC	QC Hold
XC	Collect Media For QC	Transferring

Table 3-34 OmOrder\_R contains archived order level information.

**Table 3-34. OmOrder\_R (1 of 2)**

Name	Data Type	PK Column	Mandatory Column
homeDAAC	char(3)	No	No
orderHomeDAAC	char(3)	No	No
orderType	char(2)	No	No
orderDesc	varchar(50)	No	No
orderId	varchar(10)	No	No



**Table 3-34. OmOrder\_R (2 of 2)**

<b>Name</b>	<b>Data Type</b>	<b>PK Column</b>	<b>Mandatory Column</b>
orderStatus	varchar(30)	No	No
orderSource	varchar(21)	No	No
standingOrderId	varchar(10)	No	No
externalRequestId	varchar(50)	No	No
userId	varchar(14)	No	No
eMailAddr	varchar(255)	No	No
startDateTime	datetime	No	No
receiveDateTime	datetime	No	No
timeOfLastUpdate	datetime	No	No
shipDateTime	datetime	No	No
title	char(5)	No	No
firstName	varchar(20)	No	No
middleInit	char(1)	No	No
lastName	varchar(20)	No	No
shipAddrStreet1	varchar(32)	No	No
shipAddrStreet2	varchar(32)	No	No
shipAddrStreet3	varchar(32)	No	No
shipAddrCity	varchar(35)	No	No
shipAddrState	varchar(20)	No	No
shipAddrZip	varchar(15)	No	No
shipAddrCountry	varchar(30)	No	No
shipAddrPhone	varchar(22)	No	No
shipAddrFax	varchar(22)	No	No

Table 3-35 OmPrinterConfig specifies printers defined for production output.

**Table 3-35. OmPrinterConfig**

<b>Name</b>	<b>Data Type</b>	<b>PK Column</b>	<b>Mandatory Column</b>
PrinterId	numeric(9)	Yes	Yes
PrinterName	varchar(50)	No	Yes
PrinterType	char(1)	No	No
NetworkInfo	varchar(255)	No	No
Description	varchar(255)	No	No
Status	varchar(30)	No	No
CreationDate	datetime	No	No
LastUpdate	datetime	No	No
Options	char(8)	No	No

Table 3-36 OmProcessorRequestXref contains relationship between external processors and requests.

**Table 3-36. OmProcessorRequestXref**

Name	Data Type	PK Column	Mandatory Column
RequestId	varchar(10)	Yes	Yes
ProcessorId	numeric(9)	Yes	Yes
NumGranules	int	No	No
SizeInputGrans	float	No	No

Table 3-37 OmProcessingText contains Processing Text information about the requests.

**Table 3-37. OmProcessingInstruction**

Name	Data Type	PK Column	Mandatory Column
RequestId	varchar(10)	Yes	Yes
ODLString	text	No	No
StringLength	int	No	No

Table 3-38 OmProductJob contains information linking volumes to specific production modules that specifies their current status.

**Table 3-38. OmProductJob (1 of 2)**

Name	Data Type	PK Column	Mandatory Column
ProductJobId	numeric(9)	Yes	Yes
VolumeName	char(9)	No	No
VolSize	float	No	No
DeviceId	numeric(9)	No	No
ProdModuleId	numeric(9)	No	No
Resubmit_Count	int	No	No
RequestId	varchar(10)	No	No
LastUpdate	datetime	No	No
Status	tinyint	No	No
ExplanationCode	smallint	No	No
CreationDate	datetime	No	No
CreateDeviceId	numeric(9)	No	No
CreateLabel	varchar(20)	No	No

**Table 3-38. OmProductJob (2 of 2)**

<b>Name</b>	<b>Data Type</b>	<b>PK Column</b>	<b>Mandatory Column</b>
VerifyLabel	varchar(20)	No	No
QC_Flag	char(1)	No	No

Table 3-39 OmProductJob\_R stores the volume level archived data for Request.

**Table 3-39. OmProductJob\_R**

<b>Name</b>	<b>Data Type</b>	<b>PK Column</b>	<b>Mandatory Column</b>
RequestId	varchar(10)	Yes	Yes
VolumeName	char(9)	Yes	Yes
ProdModuleName	varchar(50)	No	No
StatusDesc	varchar(25)	No	No
CreateDeviceId	numeric(9)	No	No
CreateLabel	varchar(20)	No	No
VerifyLabel	varchar(20)	No	No
LastUpdate	datetime	No	No

Table 3-40 OmProductModule contains production modules defined for use in OMS production.

**Table 3-40. OmProductModule**

<b>Name</b>	<b>Data Type</b>	<b>PK Column</b>	<b>Mandatory Column</b>
ProdModuleId	numeric(9)	Yes	Yes
ProdModuleName	varchar(50)	No	No
DefaultFlag	char(1)	No	No
CreationDate	datetime	No	No
LastUpdate	datetime	No	No
ProdMod_Executable	varchar(100)	No	No
ProdModuleType	char(1)	No	No

Table 3-41 OmReqGrInput stores the input granule ID and its request granule processing instruction ID.

**Table 3-41. OmReqGrInput**

Name	Data Type	PK Column	Mandatory Column
GranId	numeric(16)	Yes	Yes
RGPI_Id	numeric(16)	Yes	Yes

Table 3-42 OmReqGrOutput stores the output granule ID and the its request granule processing instruction ID, which correlate the processing instruction that uses to produce the output granule.

**Table 3-42. OmReqGrOutput**

Name	Data Type	PK Column	Mandatory Column
GranId	numeric(16)	Yes	Yes
RGPI_Id	numeric(16)	Yes	Yes

Table 3-43 OmRequest records each data distribution request received by an OMS Client.

**Table 3-43. OmRequest (1 of 2)**

Name	Data Type	PK Column	Mandatory Column
RequestId	varchar(10)	Yes	Yes
OrderId	varchar(10)	No	Yes
UserId	varchar(14)	No	Yes
MediaTypeId	tinyint	No	Yes
CreationDate	datetime	No	Yes
ResubmitCount	tinyint	No	Yes
ExemptfromLimitChk	char(1)	No	Yes
CompletionTime	datetime	No	No
DestinationId	numeric(9)	No	No
ProcessingMode	char(2)	No	No
ExpirationDate	datetime	No	No
ResourceUtil	char(1)	No	No
LastUpdate	datetime	No	No
PriorRequestState	varchar(30)	No	No
Source	varchar(21)	No	No
Notify	varchar(255)	No	No
NotifyType	char(4)	No	No

**Table 3-43. OmRequest (2 of 2)**

<b>Name</b>	<b>Data Type</b>	<b>PK Column</b>	<b>Mandatory Column</b>
UserString	varchar(255)	No	No
Priority	char(15)	No	No
MetaDataFlag	char(1)	No	No
ScrambledPullDirName	varchar(20)	No	No
DueDate	datetime	No	No
Label	varchar(20)	No	No
AllocationTime	datetime	No	No
MetadataFormat	char(3)	No	No
OverrideFormatFlag	char(1)	No	No
RequestType	char(2)	No	No

Table 3-44 OmRequest\_R stores the request level archived data.

**Table 3-44. OmRequest\_R (1 of 2)**

<b>Name</b>	<b>Data Type</b>	<b>PK Column</b>	<b>Mandatory Column</b>
requestId	varchar(10)	No	No
orderId	varchar(10)	No	No
parentId	varchar(10)	No	No
requestStatus	varchar(30)	No	No
MediaType	varchar(20)	No	No
MediaTypeId	tinyint	No	No
Priority	char(15)	No	No
ESDT_Id	varchar(20)	No	No
UserId	varchar(14)	No	No
lastName	varchar(20)	No	No
firstName	varchar(20)	No	No
ResubmitCount	tinyint	No	No
Source	varchar(21)	No	No
ProcessingMode	char(2)	No	No
ResourceUtil	char(1)	No	No
UserString	varchar(255)	No	No
numGranule	int	No	No
numBytes	float(8)	No	No
DestinationName	varchar(75)	No	No
DestinationHost	varchar(20)	No	No
destinationNode	varchar(20)	No	No
startDateTime	datetime	No	No

**Table 3-44. OmRequest\_R (2 of 2)**

<b>Name</b>	<b>Data Type</b>	<b>PK Column</b>	<b>Mandatory Column</b>
finishDateTime	datetime	No	No
receiveDateTime	datetime	No	No
timeOfLastUpdate	datetime	No	No
CreationDate	datetime	No	No
eMailAddr	varchar(255)	No	No
numFiles	numeric(9)	No	No
deviceId	varchar(20)	No	No
tapeFormat	varchar(20)	No	No
shipDateTime	datetime	No	No
mediaQuantity	numeric(3)	No	No
MetadataFormat	char(3)	No	No
ProcessorName	varchar(30)	No	No
RequestType	char(2)	No	No

Table 3-45 OmRequest\_Temp table used for storing intermediate request information when archiving data.

**Table 3-45. OmRequest\_Temp**

<b>Name</b>	<b>Data Type</b>	<b>PK Column</b>	<b>Mandatory Column</b>
RequestKey	numeric(9)	No	No
RequestId	varchar(10)	No	No
OrderId	varchar(10)	No	No
CompletionDate	datetime	No	No
Source	char(1)	No	No
MediaTypeId	tinyint	No	No
requestStatus	varchar(30)	No	No

Table 3-46 OmRequestGranule\_Temp table used for storing intermediate request granule information when archiving data.

**Table 3-46. OmRequestGranule\_Temp**

Name	Data Type	PK Column	Mandatory Column
Temp_Key	numeric(16)	Yes	Yes
GranId	numeric(16)	No	No
RequestId	varchar(10)	No	No
Gran_Id_No	int	No	No
RequestGrStatus	tinyint	No	No
ExplanationCode	smallint	No	No
LastUpdate	datetime	No	No
BillingInfo	varchar(50)	No	No
ECS_GranuleId	numeric(16)	No	No
DPL_GranuleId	numeric(16)	No	No
GranuleSize	float(8)	No	No
EsdtType	char(12)	No	No
GranType	char(2)	No	No
Archived	numeric(9)	No	No
GranSource	char(1)	No	No
ExternalCatalogItemId	varchar(255)	No	No
UserString	varchar(255)	No	No

Table 3-47 OmRequestGranPI stores the granule level processing instructions.

**Table 3-47. OmRequestGranPI**

Name	Data Type	PK Column	Mandatory Column
RGPI_Id	numeric(16)	Yes	Yes
GranId	numeric(16)	No	Yes
ProcessingInstruction	text	No	Yes
StepNo	int	No	Yes
Pid	int	No	No

Table 3-48 OmRequestGranPI\_Temp stores temporary granule level processing instructions during archive process.

**Table 3-48. OmRequestGranPI\_Temp**

Name	Data Type	PK Column	Mandatory Column
RGPI_Id	numeric(16)	No	Yes
GranId	numeric(16)	No	Yes
ProcessingInstruction	text	No	Yes
StepNo	int	No	Yes
Pid	int	No	No

Table 3-49 OmRequestGranPI\_R stores the archived granule level processing instructions.

**Table 3-49. OmRequestGranPI\_R**

Name	Data Type	PK Column	Mandatory Column
RGPI_Id	numeric(16)	No	Yes
GranId	numeric(16)	No	Yes
ProcessingInstruction	text	No	Yes
StepNo	int	No	Yes
Pid	int	No	No

Table 3-50 OmRequestGranule contains Request Level Granule Information.

**Table 3-50. OmRequestGranule (1 of 2)**

Name	Data Type	PK Column	Mandatory Column
RequestId	varchar(10)	No	Yes
GranId	numeric(16)	Yes	Yes
RequestGrStatus	tinyint	No	Yes
ExplanationCode	smallint	No	No
LastUpdate	datetime	No	No
PreviousStatus	tinyint	No	No
BillingInfo	varchar(255)	No	No
ECS_GranuleId	numeric(16)	No	No
DPL_GranuleId	numeric(16)	No	No
GranuleSize	float	No	Yes
EsdtType	char(12)	No	No
GranType	char(2)	No	No
InsertDateTime	datetime	No	Yes



**Table 3-50. OmRequestGranule (2 of 2)**

<b>Name</b>	<b>Data Type</b>	<b>PK Column</b>	<b>Mandatory Column</b>
Archiveld	numeric(9)	No	No
GranSource	char(1)	No	No
PriorGrStatus	varchar(25)	No	No
ChildGranId	numeric(16)	No	No
ExternalCatalogItemId	varchar(255)	No	No
UserString	varchar(255)	No	No

Table 3-51 OmRequestInterventions contains request specific information requiring a User Service Operator to act upon.

**Table 3-51. OmRequestInterventions**

<b>Name</b>	<b>Data Type</b>	<b>PK Column</b>	<b>Mandatory Column</b>
OperatorInterventionId	numeric(9)	Yes	Yes
RequestId	varchar(10)	Yes	Yes
RequestStatus	tinyint	Yes	Yes
ExplanationCode	smallint	Yes	Yes

Table 3-52 OmRequestNotes contains request notes as entered by operator.

**Table 3-52. OmRequestNotes**

<b>Name</b>	<b>Data Type</b>	<b>PK Column</b>	<b>Mandatory Column</b>
RequestId	varchar(10)	Yes	Yes
NoteSeq	int	Yes	Yes
Notes	varchar(255)	No	No

Table 3-53 OmRequestNotes\_R Contains archived request notes.

**Table 3-53. OmRequestNotes\_R**

<b>Name</b>	<b>Data Type</b>	<b>PK Column</b>	<b>Mandatory Column</b>
RequestId	varchar(10)	Yes	Yes
NoteSeq	int	Yes	Yes
Notes	varchar(255)	No	No

Table 3-54 OmQueue maintains the current settings of the Queue utilized by Order Manager Server during Request Dispatching.

**Table 3-54. OmQueue**

Name	Data Type	PK Column	Mandatory Column
QueueName	varchar(10)	Yes	Yes
QSuspendState	char(1)	No	Yes
QAcceptRequest	char(1)	No	No
ActionClass	varchar(10)	No	Yes
QueueDesc	varchar(75)	No	Yes
LastUpdate	datetime	No	Yes

Table 3-55 OmStagingConfig contains water mark information for media types and FTP Push Destinations.

**Table 3-55. OmStagingConfig**

Name	Data Type	PK Column	Mandatory Column
StagingConfigId	numeric(9)	Yes	Yes
MediaTypeId	tinyint	No	No
DestinationId	numeric(9)	No	No
DHWM	float	No	No
DLWM	float	No	No
RHWM	int	No	No
RLWM	int	No	No
ProcessingMode	char(2)	No	No
StagingStatus	char(1)	No	No

Table 3-56 OmStagingCounts contains an up-to-date (within a configurable number of minutes) copy of several staging statistics.

**Table 3-56. OmStagingCounts (1 of 2)**

Name	Data Type	PK Column	Mandatory Column
DestinationId	numeric(9)	No	No
MediaTypeId	tinyint	No	No
CntGransWaitingStaging	int	No	Yes
GransWaitingForStagingMB	float	No	Yes
CntGransStaging	int	No	Yes
GransStagingMB	float	No	Yes

**Table 3-56. OmStagingCounts (2 of 2)**

Name	Data Type	PK Column	Mandatory Column
CntGransStagNotShipd	int	No	Yes
GransStagNotShipdMB	float	No	Yes
CntGransStagShipd	int	No	Yes
GransStagShipdMB	float	No	Yes
LastUpdate	datetime	No	Yes
RunFlag	char(1)	No	No

Table 3-57 OmStagingStatistics contains throughput statistics of staging and is populated once every 15 minutes.

**Table 3-57. OmStagingStatistics**

Name	Data Type	PK Column	Mandatory Column
StagingStatsId	numeric(16)	Yes	Yes
IntervalStart	datetime	Yes	Yes
IntervalStop	datetime	Yes	Yes
CntGransFoundInDPL	int	No	No
SizeMBGransFoundInDPL	float	No	No
CntGransSubForStag	int	No	No
SizeMBGransSubForStag	float	No	No
CntGransComplStagCache	int	No	No
SizeMBGransComplStagCache	float	No	No
CntGransComplStagArch	int	No	No
SizeMBGransComplStagArch	float	No	No
CntGransFailStagCache	int	No	No
SizeMBGransFailStagCache	float	No	No
CntGransFailStagArch	int	No	No
SizeMBGransFailStagArch	float	No	No

Table 3-58 OmStatus maintains the static values for the status of request, granules, bundling orders, operator interventions, notifications and actions.

**Table 3-58. OmStatus**

Name	Data Type	PK Column	Mandatory Column
StatusCode	tinyint	Yes	Yes
StatusDesc	varchar(25)	No	Yes

Valid Status Codes

<b>StatusCode</b>	<b>StatusDesc</b>
10	FAILED/RETRY
20	SKIPPED
30	HOLD
40	FAILED
50	PENDING
60	IN-WORK
70	DONE
80	Queued
90	RETRY
100	CANCELLED
110	OPERATOR INTERVENTION
120	RESUBMIT
130	SENT
140	ACTIVE
150	EXPIRED
160	Partitioned
167	TRANSFERRING
168	SHIPPED
169	STAGING
170	STAGED
171	SUSPENDED
172	Canceling
180	PROCESSING
181	WAITING FOR PROCESSING
182	PREPPING
183	PREPPED
184	CREATING
185	CREATED
186	VERIFIED
187	VERIFYING
188	COMPLETED PROCESSING
189	QC Skipped by OPs

Table 3-59 OmSubSettingInfo, records the subsetting information specific to granules referenced within a request.

**Table 3-59. OmSubSettingInfo**

Name	Data Type	PK Column	Mandatory Column
RequestId	varchar(10)	Yes	Yes
GranId	numeric(16)	Yes	Yes
LineNum	int	Yes	Yes
SubSetInfo	varchar(255)	No	No

Table 3-60 OmSuspendedDestination stores the info for destinations that are not configured but are suspended. A destination is removed from this table once it is resumed.

**Table 3-60. OmSuspendedDestination**

Name	Data Type	PK Column	Mandatory Column
DestinationHost	varchar(100)	Yes	Yes
DestinationId	numeric(9)	No	Yes
DestinationName	varchar(75)	Yes	Yes
Directory	varchar(255)	No	No
UserId	varchar(128)	No	No
SuspendDate	smalldatetime	No	No
SuspendExplanation	smallint	No	No

Table 3-61 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.

**Table 3-61. OmTerminalEchoRequest**

Name	Data Type	PK Column	Mandatory Column
RequestId	varchar(10)	Yes	Yes
OrderId	varchar(10)	No	Yes
ExternalRequestId	varchar(50)	No	Yes
Status	varchar(30)	No	Yes
StatusDesc	varchar(50)	No	No

Table 3-62 OmUsersToDelete stores the info for UserIDs that can be deleted from the archive tables, OmOrder\_R, OmRequest\_R, OmGranule\_R, OmAddress\_R, etc.

**Table 3-62. OmUsersToDelete**

Name	Data Type	PK Column	Mandatory Column
UserID	varchar(14)	No	Yes

Table 3-63 EcDbDatabaseVersions contains information pertaining to Database patch level and shows what changes have been made to the database.

**Table 3-63. EcDbDatabaseVersions**

Name	Data Type	PK Column	Mandatory Column
EcDbSchemaVersionId	smallint	Yes	Yes
EcDbComments	varchar(255)	No	No
EcDbCurrentVersionFlag	char(1)	No	No
EcDbDatabaseName	varchar(255)	No	No
EcDbDropDescription	varchar(255)	No	No
EcDbDropInstallDate	datetime	No	No
EcDbDropVersion	char(64)	Yes	Yes
EcDbSybaseServer	varchar(255)	No	No
EcDbSybaseVersion	varchar(255)	No	No
EcDbUpdateProcess	varchar(255)	No	No

### 3.1.3 Columns

Brief definitions of each of the columns present in the database tables defined above are contained Table 3-64 Table Column Descriptions.

**Table 3-64. Table Column Descriptions (1 of 20)**

Column Name	Table	Description
ActionQueueId	OmActionQueue	UID for the action queue entry.
AckTime	OmOperatorIntervention	Time the Operator chose to work on a PENDING intervention.
ActionClass	OmQueue	Determines which queue the OM Server should utilize.
ActionInfo	OmActionQueue	Field that describes file system archive associated with this action.
ActionPriority	OmActionQueue	The priority of the action.
ActionQueueId	OmActionQueue	UID for the action queue entry.

**Table 3-64. Table Column Descriptions (2 of 20)**

Column Name	Table	Description
ActionStatus	OmActionQueue	Current Status of an Action in the queue. ActionStatus is NULL until the Action is dispatched.
ActionType	OmActionQueue OmActionType	The code that represents the action.
AddPreambleText	OmExternalProcessor	Any additional text to add into DN for all requests for this external processor.
AgingConfigId	OmAgingConfig	UID for an aging configuration parameter.
agingStep	OmAgingConfig	Amount to increase 'effective priority' of a request each hour.
AlertId	OmNotification OmArchive OmOperatorAlert	UID for each alert created internally and used to refer to an alert item both internally and externally.
AlertExplanation	OmOperatorAlert	Specifies cause/source of alert.
AlertInfo	OmOperatorAlert	Contains either destination id, File system or archive info associated with alert. 'AlertType' signifies what info will be in this field.
AlertStatus	OmOperatorAlert	Status of this alert.
AlertType	OmOperatorAlert	FileSystem, Archive, Destination, or Media Creation (F, S, D, M)
AllocationTime	OmRequest	Time at which the Request is allocated to a production module
Archived	OmArchive OmRequestGranule OmGranule_R OmRequestGranule_Temp	UID for each archive created and used internally.
ArchiveName	OmArchive	DAAC-Specific Name for an individual Archive server. HostName.
ArchiveStatus	OmArchive	Suspend, Active.
ArchiveExplanation	OmArchive	Static value for the defined reasons for an archive having a specific status.
AvgPushThrpt	OmFTPPushStatistics	Average throughput rate of each individual FTP operation for the 15 minute time period specified by intervalStart and intervalStop. Stored in MB/sec. If there are N FTP operations, avgPushThrpt = (1/N) SUM(SizeFile(i)/transferTime(i)) (i = 1,...,N)
billAddrCity	OmAddress_R	City of billing address
billAddrCountry	OmAddress_R	Country of billing address
billAddrFax	OmAddress_R	Fax Number of billing address
billAddrPhone	OmAddress_R	Phone Number of billing address
billAddrState	OmAddress_R	State of billing address

**Table 3-64. Table Column Descriptions (3 of 20)**

<b>Column Name</b>	<b>Table</b>	<b>Description</b>
billAddrStreet1	OmAddress_R	Street Address of billing address
billAddrStreet2	OmAddress_R	Street Address of billing address
billAddrStreet3	OmAddress_R	Street Address of billing address
billAddrZip	OmAddress_R	Zip Code of billing address
billContactName_First	OmAddress_R	First Name for contact of billing address
billContactName_Last	OmAddress_R	Last Name for contact of billing address
billContactName_MI	OmAddress_R	Middle Initial for contact of billing address
billContactOrg	OmAddress_R	Org Name for contact of billing address
billContactTitle	OmAddress_R	Title for contact of billing address
billEMailAddr	OmAddress_R	Email address associated with billing address
BillingInfo	OmRequestGranule OmGranule_R OmRequestGranule_Temp	Contains billing related Information.
BlkSize	OmDevice	Tape Bbock size
BundlingOrderId	OmBundlingOrder OmBundlingOrder_R	UID for bundled order.
BundlingOrderPriority	OmBundlingOrder	Distribution priority to be used for the actions generated for the specific bundling order.
BundlingOrderStatus	OmBundlingOrder OmBundlingOrder_R	Current bundling status.
Category	OmConfigParameter	Used by OMS GUI to determine different categories.
CharValue	OmConfigParameter	Holds the value of a particular configuration parameter which has a type of "C".
ChildGranId	OmRequestGranule	OMS internal granule id of compressed version of this granule.
ChkSum	OmFile	Check sum value.
ChkSumTypeld	OmFile	Check sum type id.
CntGransComplStagArch	OmStagingStatistics	Number of granules from archive that completed staging during this 15 minute time period.
CntGransComplStagCache	OmStagingStatistics	Number of granules from cache that completed staging during this 15 minute time period.
CntGransFailStagArch	OmStagingStatistics	Number of granules from archive that failed staging during this 15 minute time period.



**Table 3-64. Table Column Descriptions (4 of 20)**

<b>Column Name</b>	<b>Table</b>	<b>Description</b>
CntGransFailStagCache	OmStagingStatistics	Number of granules from cache that failed staging during this 15 minute time period.
CntGransFoundInDPL	OmStagingStatistics	Number of granules found in Data Pool for requests being staged during this 15 minute period.
CntGransStaging	OmStagingCounts	Number of granules in staging process in system.
CntGransSubForStag	OmStagingStatistics	Number of granules submitted for staging (whether their source is archive or cache or DPL) during this 15 minute time period.
CntGransStagNotShipd	OmStagingCounts	Number of request granules whose associated physical granule has been staged but the granule has not been shipped to its destination or physical media.
CntGransStagShipd	OmStagingCounts	Number of request granules whose associated physical granule has been staged and the granule has been shipped to its destination or physical media.
CntGransWaitingStaging	OmStagingCounts	Number of granules waiting to be staged in system.
Code	OmCode	Actual value of code.
CompletionDate	OmRequest_Temp	Date Request was marked complete in OmRequest
CompletionTime	OmOperatorAlert OmActionQueue OmRequest OmOperatorIntervention	Time the Operator Intervention or Action was completed.
ConfigId	OmConfigParameter	UID for each CI created and used internally.
CreateDeviceId	OmProductJob OmProductJob_R	The DeviceId of the Device used to create the Request volume.
CreateLabel	OmProductJob OmProductJob_R	The Label name of the Device used to create the Request volume.
CreationDate	OmDevice OmExternalProcessor OmPrinterConfig OmProductJob OmRequest OmProductModule OmRequest_R	Date request row was added to OmRequestGranule table.

**Table 3-64. Table Column Descriptions (5 of 20)**

Column Name	Table	Description
CreationTime	OmConfigDestination OmOperatorAlert OmOperatorIntervention	Date destination row was added to this table. Date alert row was added to this table.
cutOffDate	OmCleanupProcesses	Cleanup cutoff date
DefaultFlag	OmProductModule	Indicates whether this is the default production module.
Description	OmCode OmDevice OmActionType OmPrinterConfig	Description for related entity.
DestDispatchStatus	OmConfigDestination	Suspended, Active.
DestinationHost	OmSuspendedDestination OmConfigDestination OmDestStatistics OmRequest_R	FtpHost, corresponds to destinationNode in EcAcRequest table.
DestinationId	OmSuspendedDestination OmStagingCounts OmConfigDestination OmDestStatistics OmStagingConfig OmRequest OmGranuleCounts	UID for each destination created and used internally.
DestinationName	OmSuspendedDestination OmConfigDestination OmRequest_R	Operator-assigned name for an individual destination.
destinationNode	OmRequest_R	Contains Ftp Host specified in MSS
DeviceId	OmDevice OmProductJob OmDeviceMediaXref	Unique Id assigned to device
deviceld	OmRequest_R	Device that was used to create media for this request (corresponds to Label)
DevicePurpose	OmDevice	Indicates whether device is available for Production, QC, or both.
DHWM	OmStagingConfig	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.
Directory	OmSuspendedDestination OmConfigDestination	Target directory corresponds to destinationDirectory in EcAcRequest table.
DirectoryPath	OmFile	Location of file in datapool.
DisableChecksum	OmConfigDestination	Indicates whether to disable checksum for a configured destination.
DispatchInfo	OmActionQueue	Reason for suspension/resumption.

**Table 3-64. Table Column Descriptions (6 of 20)**

<b>Column Name</b>	<b>Table</b>	<b>Description</b>
DispatchMode	OmMediaType	Specifies whether media type is configured for automatic or manual dispatch mode, ie, "A" or "M"
DLWM	OmStagingConfig	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.
DNEmailAddr	OmExternalProcessor	Email address to which DNs will be sent for this processor. Used to identify secondary requests (input granule requests).
DPL_GranuleId	OmRequestGranule OmGranule_R OmRequestGranule_Temp	UID for granule from DPL.
DriveLetter	OmDevice	Drive Letter for Hard Media device
DueDate	OmRequest	Date when media creation is expected to be completed for this request. Used by operators.
ECS_GranuleId	OmRequestGranule OmGranule_R OmRequestGranule_Temp	UID for granule from AIM. Used internally.
ECSPriority	OmAgingConfig	Original priority of request.
EcDbComments	EcDbDatabaseVersions	Notes or comments on the database version level.
EcDbCurrentVersionFlag	EcDbDatabaseVersions	Flag indicating if this row represents the current database version entry.
EcDbDatabaseName	EcDbDatabaseVersions	The name of the database for which this database versions level is applied.
EcDbDropDescription	EcDbDatabaseVersions	The official name of the ECS software drops for this database version level.
EcDbDropInstallDate	EcDbDatabaseVersions	The date and time that the database versions level was installed.
EcDbDropVersion	EcDbDatabaseVersions	The official description of the ECS software drops for this database version level.
EcDbSchemaVersionId	EcDbDatabaseVersions	The subsystem-specific identifier for this database schema version
EcDbSybaseServer	EcDbDatabaseVersions	The name of the baseline Sybase SQL server controlling this database.
EcDbSybaseVersion	EcDbDatabaseVersions	The software release version of the Sybase SQL server in place when this database version level was initially installed.
EcDbUpdateProcess	EcDbDatabaseVersions	The installation method by which this database version level was installed.

**Table 3-64. Table Column Descriptions (7 of 20)**

Column Name	Table	Description
eMailAddr	OmAddress_R OmOrder_R OmRequest_R	Email Address associated with this request
EmailAddr	OmOdlMetadataRequestors OmChecksumRequestors	Email address of users configured to receive metadata in ODL format or checksum information
Endpoint	OmExternalProcessor	Port number and IP Address of external processor
EnqueueTime	OmActionQueue	Time at which this item was added to specified queue.
ESDT_Id	OmRequest_R	Primary ESDT associated with this request
EsdtName	OmCompressedEsdts	Esdt Name.
EsdtType	OmRequestGranule OmEsdtRef OmGranule_R OmRequestGranule_Temp	Earth Science Data Type short name.
ExpirationDate	OmBundlingOrder OmBundlingOrder_R OmRequest	Date and time the Bundling Order will expire. Date and time the Request will expire.
Explanation	OmDevice OmExplanation	Static value for the defined reasons for a device being off-line. Detailed information regarding the reason for a specified state of either a request or a granule. In the case of failure, indicates reason code.
ExplanationCode	OmExplanation OmRequestGranule OmGranule_R OmRequestInterventions OmRequestGranule_Temp OmProductJob	Static value for the defined reasons for a granule or request to have a specific status.
ExemptfromLimitChk	OmRequest	Determines whether the request will undergo Request Limit Validation.
ExternalCatalogItemId	OmRequestGranule OmGranule_R	External Catalog item id associated with granule.
externalRequestId	OmOrder_R	External Request Id used by MTMGW associated with this order.
ExternalRequestId	OmTerminalEchoRequest	External Request Id used by ECHO associated with this order.
FileId	OmFile	UID for science file or metadata file.
FileName	OmFile	System Name of granule file.
FileSize	OmFile	Size of file - obtained from system.
FileType	OmFile	S or M for Science File or MetaData File.

**Table 3-64. Table Column Descriptions (8 of 20)**

<b>Column Name</b>	<b>Table</b>	<b>Description</b>
finishDateTime	OmRequest_R	Date/Time this request was marked done in EcAcRequest.finishDateTime.
firstName	OmAddress_R OmOrder_R OmRequest_R	First Name of mailing address for a request. First Name associated with an order. First name associated with a request.
FloatValue	OmConfigParameter	Column used to store configuration parameters of type float.
FtpHost	OmDevice	The hostname of the Rimage PC to FTP disc images to.
FtpUser	OmDevice	The username of the account that should be used for FTP.
FtpPass	OmDevice	The encrypted password for the account that should be used for FTP
FtpPullRetainHours	OmExternalProcessor	Number of hours to keep granules in pull area for external processor requests
GranSource	OmRequestGranule OmGranuleCounts OmGranule_R	Source of Granule "A", "C", "D", "O", i.e., Archive, Cache, DataPool, or OutputGranule.
GranType	OmRequestGranule OmGranule_R OmRequestGranule_Temp	Identifies whether granule is a type of Science, Quality, ProcessingHistory, or Browse, DataPool.
GranuleDeliveryId	OmGranuleDelivery	
GranuleSize	OmRequestGranule OmGranule_R OmRequestGranule_Temp OmGranuleCounts	Cumulative size of granule science/metadata files.
Gran_Id_No	OmRequestGranule_Temp	Sequential number identifying a specific granule in a multi-granule request.
GranId	OmRequestGranule OmRequestGranule_Temp OmFile OmActionQueue OmReqGrInput OmReqGrOutput OmRequestGranPI OmSubSettingInfo OmGranuleDelivery OmGranuleCounts OmRequestGranPI_Temp OmActionQueue OmGranule_R OmRequestGranPI_R	UID for granule.

**Table 3-64. Table Column Descriptions (9 of 20)**

<b>Column Name</b>	<b>Table</b>	<b>Description</b>
GransStagingMB	OmStagingCounts	Cumulative size in MB of granules in staging for this destination/media.
GransStagNotShipdMB	OmStagingCounts	Cumulative size in MB of granules staged but waiting to be shipped for this destination/Media.
GransStagShipdMB	OmStagingCounts	Cumulative size in MB of granules staged, shipped but still in the Data Pool for this destination/Media.
GransWaitingForStagingMB	OmStagingCounts	Cumulative size in MB of granules waiting to be moved to staging state for this destination/media.
GrStatus	OmGranuleCounts	Present status of granule in OmRequestGranule. Cumulative status of granule.
homeDAAC	OmAddress_R OmOrder_R	Primary DAAC processing requests
ImageFileLoc	OmJewelCase	Location of the Image file to be used when printing Jewel Case inserts
InterventionStatus	OmOperatorIntervention	Static integer value for the defined statuses.
InterventionType	OmOperatorIntervention	Indicates type of intervention.
IntValue	OmConfigParameter	Field used to store configuration parameter containing an integer value.
InsertDateTime	OmRequestGranule	Date this granule row was added to table.
IntervalStart	OmDestStatistics OmStagingStatistics	Beginning of 15 minute time period.
IntervalStop	OmDestStatistics OmStagingStatistics	End of 15 minute time period.
InsertTime	OmDuplicateCheck	Date/Time this row was inserted.
IntPriority	OmAgingConfig	Integer value for corresponding ECSPriority
JewelCaseId	OmJewelCase	UID for this jewel case
Jewel_rpt	OmJewelCase	Location of Jewel report
kpid	OmCleanupProcesses	Kernel Process ID. KPID is a system-wide identifier that uniquely identifies a thread on Server.
Label	OmDevice OmRequest	Unique label for unit
LastAccess	OmBundlingOrder	Last time Bundling Order was accessed.
LastChecksumTime	OmFile	Last Checksum Time for granule file.

**Table 3-64. Table Column Descriptions (10 of 20)**

<b>Column Name</b>	<b>Table</b>	<b>Description</b>
lastName	OmAddress_R OmOrder_R OmRequest_R	Last Name associated with mailing address Last name associated with order Last name associated with request
LastUpdate	OmActionQueue OmRequestGranule OmConfigDestination OmExternalProcessor OmArchive OmDevice OmStagingCounts OmRequestGranule OmGranule_R OmGranuleDelivery OmMediaType OmOdI_MetadataRequestors OmPrinterConfig OmProductJob OmProductJob_R OmProductModule OmRequestGranule_Temp OmNotification OmQueue OmRequest OmChecksumRequestors	Last change in status of OmActionQueue for specified queue. Last update to Request Granule status in OmRequestGranule. Last time info for this destination was updated in OmConfigFTPPushDest. Last update to this archive's definition/configuration in OmArchive. Last date/time this device's status or offline status was updated in OmDevice. Last time these statistics were updated from summing up the vectors in OmStagCountChanges for OmStagingCounts. Last update to Record before archiving in OmGranule_R. Last time the media delivery status changed for this granule in OmGranuleDelivery. Last update to this media type's configuration in OmMediaType. Last time the configuration for this printer was changed in OmPrinterConfig. Last time the delivery status of this product job was updated in OmProductJob and OmProductJob_R. Last time the configuration for this production module was updated Last time this granule was affected before being archived Last update to this notification in OmNotification. Last update to this queue description/definition in OmQueue. Last time changes made to request in OmRequest. Last update for Check sum requestors
LastUpdated	OmCompressedEsdts	Last change for compressed Esdt.

**Table 3-64. Table Column Descriptions (11 of 20)**

<b>Column Name</b>	<b>Table</b>	<b>Description</b>
LineNum	OmSubSettingInfo	Integer detailing line number within ODL for SubSetting Information.
mailAddrCity	OmAddress_R	City associated with mailing address
mailAddrCountry	OmAddress_R	Country associated with mailing address
mailAddrFax	OmAddress_R	Fax number associated with mailing address
mailAddrPhone	OmAddress_R	Phone number associated with mailing address
mailAddrState	OmAddress_R	State associated with mailing address
mailAddrStreet1	OmAddress_R	Street address associated with mailing address
mailAddrStreet2	OmAddress_R	Street address associated with mailing address
mailAddrStreet3	OmAddress_R	Street address associated with mailing address
mailAddrZip	OmAddress_R	Zip Code associated with mailing address
MaxBundleAge	OmBundlingOrder	UID of Bundling Order.
MaxConnections	OmConfigDestination	Maximum number of parallel connections to this individual destination.
MaxPriLevel	OmAgingConfig	Maximum 'effective priority' achievable through aging for a request of this ECS priority.
MaxPushThrpt	OmDestStatistics	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.
MaxRequestSize	OmMediaType	Maximum size of any individual request in MB for specified media type.
MediaCapacity	OmMediaType	Maximum storage capacity in MB for specified media type.
MediaCreaDevLimit	OmMediaType	For Media configured for automatic processing, represents the configured limits for concurrent device usage for Production
MediaQCDevLimit	OmMediaType	For Media configured for automatic processing, represents the configured limits for concurrent device usage for QC
MediaCreationType	OmMediaType	DAAC operators configure a media type for PDS or OMS media creation.
MediaFlag	OmExplanation	Indicates whether this explanation is associated with media creation
mediaQuantity	OmRequest_R	The number of media requested for an order.
MediaType	OmMediaType OmRequest_R	Type of Media.



**Table 3-64. Table Column Descriptions (12 of 20)**

<b>Column Name</b>	<b>Table</b>	<b>Description</b>
MediaTypeld	OmStagingConfig OmStagingCounts OmConfigRetTimePeriod OmDeviceMediaXref OmBundlingOrder OmMediaType OmRequest OmRequest_R OmRequest_Temp OmGranuleCounts	UID for this media type.
MetaDataFlag	OmRequest	Indicates whether or not the user has requested metadata with this request.
MetadataFormat	OmRequest OmRequest_R	Indicates whether metadata is to be distributed in ODL or XML format for this request.
middleInit	OmAddress_R OmOrder_R	Middle Initial for mailing address Middle initial for this order
MinBundleGranCnt	OmBundlingOrder	Minimum number of granules a bundle must contain before it is distributed.
MinBundleSize	OmMediaType OmBundlingOrder	Minimum size in MB a bundle must attain before it is distributed.
MinDaysBetweenChecksum	OmMediaType	Minimum days between Checksum for configured destination.
MinPushThrpt	OmDestStatistics	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.
MinRequestSize	OmMediaType	Maximum size of any individual request in MB for specified media type.
MinThroughput	OmConfigDestination	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.
Mode	OmDevice	The Mode that a device is allocated to
ModeReserved	OmDevice	The Mode that a device is reserved For
NetworkInfo	OmPrinterConfig	Network Info field.
Notes	OmConfigDestination OmRequestNotes OmRequestNotes_R	User-entered comments for this destination. User-entered request notes

**Table 3-64. Table Column Descriptions (13 of 20)**

<b>Column Name</b>	<b>Table</b>	<b>Description</b>
Notify	OmRequest	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	OmRequest	Text fields to record whether the notification to the user should be sent via EMAIL
ntqcFlag	OmDevice	
numBytes	OmRequest_R	Total size in MB of this request
NotificationId	OmNotification OmActionQueue	UID for this notification created internally and used both internally and externally to refer to this notification.
NotificationStatus	OmNotification	Static integer value for the defined statuses.
NoteSeq	OmRequestNotes OmRequestNotes_R	Sequential Number allocated to request note
NumFailed	OmDestStatistics	Number of granules that FTP Push failed during time period specified by intervalStart and intervalStop.
numFiles	OmRequest_R	Total number of granule files for this request
numGranule	OmRequest_R	Total number of granules for this request
NumGranules	OmProcessorRequestXref	Number of granules for this request
NumPushed	OmDestStatistics	Number of granules successfully pushed during the time period specified by intervalStart and intervalStop.
numRequestsProcessed	OmCleanupProcesses	Total requests deleted by cleanup instance
ODLString	OmProcessingInstruction	ODL in text format
Online_Status	OmDevice	indicates whether the device / unit is on-line of off-line, ie, "Y" or "N" for on-line or off-line
OperatorInterventionId	OmOperatorIntervention OmNotification OpmRequestInterventions	UID for the operator intervention created internally and used both internally and externally to refer to this operator intervention.
OperatorNotes	OmOperatorIntervention	Operator entered notes for this operator intervention.
OperatorText	OmNotification	Free text field to permit an operator to enter information into an email notification request.
Options	OmPrinterConfig	
orderDesc	OmOrder_R	Description of the user's order.
orderHomeDAAC	OmOrder_R	The home DAAC where the order was placed.
orderId	OmAddress_R OmOrder_R OmRequest_R	UID for order from MSS

**Table 3-64. Table Column Descriptions (14 of 20)**

<b>Column Name</b>	<b>Table</b>	<b>Description</b>
OrderId	OmRequest_Temp OmRequest OmDuplicateCheck	UID for this order created in MSS.
orderSource	OmOrder_R	Origination of this order (MTMGW, SSS, DPLGUI, V0GW, etc)
OrderSource	OmConfigRetTimePeriod	OMS Client of order.
orderStatus	OmOrder_R	Status of an order in MSS when it was archived
orderType	OmOrder_R	The type of an order
organization	OmAddress_R	Organization associated with this request
Outcome	OmOperatorIntervention	Information regarding the disposition of an intervention.
OverrideFormatFlag	OmRequest	Indicates whether we should ignore the email address and use the present value of MetadataFormat column when deciding what format to ship metadata. See MetadataFormat.
ParameterDesc	OmConfigParameter	Description of this configuration parameter.
ParameterName	OmConfigParameter	Name of this configuration parameter.
ParameterType	OmConfigParameter	Determines whether the parameter will hold integer, character or float values.
parentId	OmRequest_R	A request can be broken into subrequests, and this column holds the ID for that request.
PartitionGranuleLimit	OmMediaType	Largest number of granules within a partition.
PartitionSizeLimit	OmMediaType	Largest size of a partition for a specified Media Type
Path	OmDevice	For Unix devices, the Unix device path name.
PickedTime	OmActionQueue	Time when the action is read by the OMS server
Pid	OmActionQueue OmRequestGranPI OmRequestGranPI_Temp OmRequestGranPI_R	Process Id for the queue item. Process Id for the HEG process
PreviousStatus	OmRequestGranule	Previous status of granule, prior to running statistics
PrinterId	OmPrinterConfig	UID for a printer
PrinterName	OmPrinterConfig	User-specified name for a printer
PrinterType	OmPrinterConfig	Identifies the type of processing the printer is used for, ie, SL = Shipping Labels, TL = Tape labels, PL = Packing List, QC = QC reports, JC = Jewel Case Inserts, SF = Summary File
Priority	OmRequest_R OmRequest	The priority of a job Optional Distribution request priority

**Table 3-64. Table Column Descriptions (15 of 20)**

<b>Column Name</b>	<b>Table</b>	<b>Description</b>
PriorRequestState	OmRequest	Previous state of request prior to being suspended.
PriorGrStatus	OmRequestGranule	Previous state of granule prior to being canceled.
ProcessingInstruction	OmRequestGranPI OmRequestGranPI_Temp OmRequestGranPI_R	Processing instruction for a granule
ProcessingMode	OmRequest OmStagingConfig OmRequest_R	Processing Mode (Synergy III/Synergy IV) for this individual request.
ProcessorId	OmExternalProcessor OmProcessorRequestXref	UID for an external processor
ProcessorName	OmRequest_R OmExternalProcessor	Unique name for an external processor
ProdMod_Executable	OmProductModule	Location of executable
ProdModuleId	OmEsdtRef OmJewelCase OmProductJob OmProductModule	Unique Id Number associated with production module UID associated with a production module
ProdModuleName	OmProductModule OmProductJob_R	Name of a production module
ProdModuleType	OmProductModule	Type of Production Module
ProductJobId	OmGranuleDelivery OmProductJob	UID for a product job
QueueName	OmQueue OmMediaType	Name of queue to which OM Server dispatches.
QAcceptRequest	OmQueue	Determines whether the acceptance of any processing/subsetting requests is currently stopped or not.
QC_default	OmMediaType	Number of Request volumes that are to be QC'd by default for media, either 100 for all or 0 for none.
QC_Dorran_default	OmMediaType	Not used
QC_Flag	OmProductJob OmProductJob_R	'Y' value indicates that the Request volume is to be QC'd. If a Request volume is not to be QC'd, then the status of the Request volume is set to 'QC skipped by Ops'
QSuspendState	OmQueue OmMediaType	Determines whether actions can be submitted to a specified QueueName.
QueueDesc	OmQueue	Description of the QueueName.

**Table 3-64. Table Column Descriptions (16 of 20)**

<b>Column Name</b>	<b>Table</b>	<b>Description</b>
RequestId	OmDuplicateCheck OmRequestGranule OmRequestInterventions OmSubSettingInfo OmProductJob OmProductJob_R OmNotification OmProcessingInstruction OmProcessorRequestXref OmRequest OmActionQueue OmBundlingOrder OmBundlingOrder_R OmGranule_R OmRequest_Temp OmRequestGranule_Temp OmRequestNotes OmRequestNotes_R OmGranuleCounts OmOperatorIntervention OmDevice	UID for request.
requestId	OmRequest_R	UID for archived request from MSS.
RequestKey	OmRequest_Temp	Internal key used in processing requests for archive
receiveDateTime	OmOrder_R OmRequest_R	Receipt Date in MSS for this order Receipt Date in MSS for this request
RequestGrStatus	OmRequestGranule OmGranule_R OmRequestGranule_Temp	Status of granule with respect to Request.
RequestStatus	OmRequestInterventions	Status of this request in MSS.
requestStatus	OmRequest_R OmRequest_Temp	Status of this request from MSS.
RequestType	OmRequest OmRequest_R	orderType for this request
ResourceUtil	OmRequest OmRequest_R	Resource utilization category (cheap, moderate, expensive) of this request.
Resubmit_Count	OmProductJob	Number of times specified volume has been resubmitted.
ResubmitCount	OmRequest OmRequest_R	Number of times specified request has been resubmitted.
RetryCount	OmActionQueue	Number of times this queue item has been retried.

**Table 3-64. Table Column Descriptions (17 of 20)**

<b>Column Name</b>	<b>Table</b>	<b>Description</b>
RetryInterval	OmConfigDestination	Amount of time to wait to retry a failed FTP Push attempt to this destination. Stored in seconds.
RetryMode	OmConfigDestination	Specifies whether suspended requests are retried automatically or manually. 'A' or 'M'. Automatic or Manual.
RetTimePeriod	OmConfigRetTimePeriod	Amount of time to retain an order from this client/media in MSS.
RetTimePeriodId	OmConfigRetTimePeriod	UID for Retention Time Period
RGPI_Id	OmRequestGranPI OmRequestGranPI_Temp OmReqGrInput OmReqGrOutput OmRequestGranPI_R	UID for request granule processing instruction
RHWM	OmStagingConfig	A request high water mark for destination specifying the desired maximum number of requests that maybe in the Staging state.
RLWM	OmStagingConfig	A request low water mark for destination, specifying the desired minimum number of requests that should be in staging or staged.
RunFlag	OmStagingCounts	Indicates the current process applying change to table.
ScrambledPullDirName	OmRequest	Encrypted Pull Directory Name.
SerialPrepFlag	OmDevice	Either Y or N depending on whether or not orders should be prepared Concurrently or Serially.
shipAddrCity	OmOrder_R	City associated with shipping address
ShortName	OmEsdtToDelete	Earth Science Data Type short name for ESDTs not kept in DPL post 7.21 LTO install.
shipAddrCountry	OmOrder_R	Country associated with shipping address
shipAddrFax	OmOrder_R	Fax Number associated with shipping address
shipAddrPhone	OmOrder_R	Phone number associated with shipping address
shipAddrState	OmOrder_R	State associated with shipping address
shipAddrStreet1	OmOrder_R	Street address associated with shipping address
shipAddrStreet2	OmOrder_R	Street address associated with shipping address
shipAddrStreet3	OmOrder_R	Street address associated with shipping address
shipAddrZip	OmOrder_R	Zip Code associated with shipping address
shipContactOrg	OmAddress_R	Contact org name associated with shipping address

**Table 3-64. Table Column Descriptions (18 of 20)**

<b>Column Name</b>	<b>Table</b>	<b>Description</b>
shipDateTime	OmOrder_R OmRequest_R	Date/Time this order was moved to a terminal state
SizeFailedMB	OmDestStatistics	Cumulative size in MB of all granules successfully pushed during 15 minute period specified by intervalStart and intervalStop.
SizeInputGrans	OmProcessorRequestXref	Size in MB of input granules for this request
SizeMBGransComplStagArch	OmStagingStatistics	Cumulative size in MB of granules from archive that completed staging during this 15 minute time period.
SizeMBGransComplStagCache	OmStagingStatistics	Cumulative size in MB of granules from cache that completed staging during this 15 minute time period.
SizeMBGransFailStagArch	OmStagingStatistics	Cumulative size in MB of granules from archive that failed staging during this 15 minute time period.
SizeMBGransFailStagCache	OmStagingStatistics	Cumulative size in MB of granules from cache that failed staging during this 15 minute time period.
SizeMBGransFoundInDPL	OmStagingStatistics	Cumulative size of granules found in Data Pool for requests being staged during this 15 minute period.
SizeMBGransSubForStag	OmStagingStatistics	Cumulative size in MB of granules submitted for staging (whether their source is archive or cache or DPL) during this 15 minute time period.
SizePushedMB	OmDestStatistics	Cumulative size in MB of all granules successfully pushed during 15 minute period specified by intervalStart and intervalStop.
Source	OmRequest OmRequest_R OmRequest_Temp	Client of this request.
spid	OmCleanupProcesses	Session Id
StagingConfigId	OmStagingConfig	UID for Staging Config table.
StagingStatsId	OmStagingStatistics	UID for this statistic.
StagingStatus	OmStagingConfig	Indicates whether staging is active or suspended for this media or destination.
standingOrderId	OmOrder_R	ID of a standing order.

**Table 3-64. Table Column Descriptions (19 of 20)**

<b>Column Name</b>	<b>Table</b>	<b>Description</b>
startDateTime	OmOrder_R OmRequest_R	The time set by DDIST to the first time DDIST started to process the request, i.e., start the staging of its data, and the request status.
Status	OmDevice OmPrinterConfig OmProductJob OmExternalProcessor	Current Status of the device, ie, "busy", or "Available" Status of this printer Volume status ACTIVE or SUSPENDED
StatusCode	OmStatus	Static integer value for the defined statuses.
StatusDesc	OmStatus OmProductJob_R	Description of the state of the granule.
StepNo	OmRequestGranPI OmRequestGranPI_Temp OmRequestGranPI_R	The number of step in the process of producing a new granule.
StringLength	OmProcessingInstruction	Length of ODL string, used for efficient data retrieval
SubSetInfo	OmSubSettingInfo	Holds the subsetting info for a Landsat granule.
SuspendDate	OmSuspendedDestination	Date/Time this destination was suspended.
SuspendExplanation	OmSuspendedDestination	Specifies cause/source of suspension.
TableName	OmCode	Table that uses this code.
tapeFormat	OmRequest_R	Holds the format of the tape for the request.
Temp_Key	OmRequestGranule_Temp	Internal Id used in archiving process.
TextFile2Loc	OmJewelCase	Location of the second Text file to be used when printing Jewel Case inserts, currently not used.
TextFileLoc	OmJewelCase	Location of the Text file to be used when printing Jewel Case inserts.
timeOfLastUpdate	OmOrder_R OmRequest_R	Holds the time of the last order or request update.
TimeOut	OmConfigDestination	Time 'buffer' used for determining if an individual FTP Push operation should time out (Stored in seconds).
title	OmAddress_R OmOrder_R	This is the title of a user, i.e., Dr.
Units	OmConfigParameter	Units associated with Parameter.
userId	OmAddress_R OmOrder_R	This column uniquely identifies a registered user.
UserId	OmRequest OmRequest_R OmSuspendedDestination	Identification of user submitting a request for distribution; Ftp User corresponds to ftpAddress field in EcAcRequest.



**Table 3-64. Table Column Descriptions (20 of 20)**

Column Name	Table	Description
UserID	OmUsersToDelete	User Id that can be deleted from the archive tables when archive cleanup script is run.
UserString	OmRequest OmRequest_R OmGranule_R	Optional Distribution option which identifies a request.
UserChecksum	OmDuplicateCheck	Unique checksum generated by DPL.
UserEmail	OmDuplicateCheck	User that generated this request.
VerifyLabel	OmProductJob OmProductJob_R	The Label name of the Device that the Request volume was verified on.
VersionId	OmEsdtToDelete	Version Id for ESDTs not kept in DPL post 7.21 LTO install.
VolSize	OmProductJob	Size of volume in MB.
VolumeName	OmProductJob OmProductJob_R OmDevice	Name given to a request volume to uniquely identify it for the request.
WorkedBy	OmOperatorIntervention	Identification of the Operator who entered a disposition of an Operator Intervention request.
WorkloadActual	OmDevice	Current workload for a RIMAGE device
WorkloadAllocated	OmDevice	Maximum workload that can be queued up for a RIMAGE unit.
WorkloadLimit_Allocated	OmDevice	Maximum workload that can be allocated for a RIMAGE unit.
WorkloadLimit_Actual	OmDevice	Maximum workload that can be queued up for a RIMAGE unit.
WorkloadLimit_Jobs	OmDevice	Maximum workload that can be queued on device.

### 3.1.4 Column Domains

Domains specify the ranges of values allowed for a given table column. Sybase supports the definition of specific domains to further limit the format of data for a given column. Sybase domains are, in effect, user-defined data types. There are no domain specifications within Order Manager.

### 3.1.5 Column Default Values

Defaults are used to supply a value for a column when one is not defined at row insert time. Defaults defined in Sybase for the Order Manager Subsystem database are described in Table 3-65.

**Table 3-65. Order Manager Database Column Defaults**

Column Name	Default Value
OmQueue.QSuspend.State	N
OmRequest.ResubmitCount	0
OmBundlingOrder.LastAccess	getdate()
OmMediaType.QSuspendState	N
OmRequest.ExemptfromLimitChk	N

### 3.1.6 Referential Integrity Rules

Sybase supports the definitions of rules. Rules provide a means for enforcing domain constraints on a given column. There are no rules defined for the Order Manager.

### 3.1.7 Check Constraints

Check constraints are similar to rules, in that they specified the valid domain values. However, check constraints are defined at the table level and as such only apply to the specified table. Table 3-66 identifies the check constraints utilized in Order Manager.

**Table 3-66. Order Manager Check Constraints**

Check Constraint	Table/Column	Domain Values
State_Chk	OmQueue.QSuspendState	Y,N,S
Ptype	OmConfigParameter.ParameterType	I,C,F
TypeDomain	OmMediaType.MediaType	FTPPUSH, FTTPULL, 8MM, DLT, DVD, CDROM

### 3.1.8 Views

Sybase allows the definition of views as a means of limiting an application or users access to data in a table or tables. Views create a logical table from columns found in one or more tables. Currently, there are no views defined for the Order Manager Subsystem database.

### 3.1.9 Declarative Integrity Constraints

Sybase allows the enforcement of referential integrity via the use of declarative integrity constraints. Integrity constraints allow the SQL server to enforce primary and foreign key integrity checks automatically without requiring programming. Sybase is ANSI-92 compliant, therefore, its constraints support "restrict-only" operations. This means that a row cannot be deleted or updated if there are rows in other tables having a foreign key dependency on that row. Cascade delete and update operations cannot be performed if a declarative integrity constraint has been used. Declarative integrity constraints used in the Order Manager Subsystem database are found here. Referential integrity is also maintained through use of user-defined triggers and procedures. See Tables 3-67 through 3-81 for dependencies.

**Table 3-67. Dependencies on Table: OmActionType**

Referenced by	Primary Key	Foreign Key
OmOperatorIntervention	ActionType	InterventionType
OmActionQueue	ActionType	ActionType

**Table 3-68. Dependencies on Table: OmArchive**

Referenced by	Primary Key	Foreign Key
OmRequestGranule	Archiveld	Archiveld

**Table 3-69. Dependencies on Table: OmConfigDestination**

Referenced by	Primary Key	Foreign Key
OmRequest	DestinationId	DestinationId
OmDestStatistics	DestinationId	DestinationId

**Table 3-70. Dependencies on Table: OmDevice**

Referenced by	Primary Key	Foreign Key
OmDeviceMediaXref	Deviceld	Deviceld

**Table 3-71. Dependencies on Table: OmExplanation**

Referenced by	Primary Key	Foreign Key
OmRequestGranule	ExplanationCode	ExplanationCode
OmRequestInterventions	ExplanationCode	ExplanationCode

**Table 3-72. Dependencies on Table: OmExternalProcessor**

Referenced by	Primary Key	Foreign Key
OmProcessorRequestXref	ProcessorId	ProcessorId

**Table 3-73. Dependencies on Table: OmMediaType**

Referenced by	Primary Key	Foreign Key
OmBundlingOrder	MediaTypeId	MediaTypeId
OmConfigRetTimePeriod	MediaTypeId	MediaTypeId
OmConfigDestination	MediaTypeId	MediaTypeId
OmRequest	MediaTypeId	MediaTypeId

**Table 3-74. Dependencies on Table: OmNotification**

Referenced by	Primary Key	Foreign Key
OmActionQueue	NotificationId	NotificationId

**Table 3-75. Dependencies on Table: OmProductJob**

Referenced by	Primary Key	Foreign Key
OmGranuleDelivery	ProductJobId	ProductJobId

**Table 3-76. Dependencies on Table: OmProductModule**

Referenced by	Primary Key	Foreign Key
OmProductJob	ProdModuleId	ProdModuleId
OmEsdtRef	ProdModuleId	ProdModuleId
OmJewelCase	ProdModuleId	ProdModuleId

**Table 3-77. Dependencies on Table: OmQueue**

Referenced by	Primary Key	Foreign Key
OmMediaType	QueueName	QueueName

**Table 3-78. Dependencies on Table: OmRequest**

Referenced by	Primary Key	Foreign Key
OmActionQueue	RequestId	RequestId
OmBundlingOrder	RequestId	RequestId
OmOperatorIntervention	RequestId	RequestId
OmRequestGranule	RequestId	RequestId
OmRequestNotes	RequestId	RequestId
OmProcessingInstruction	RequestId	RequestId
OmProcessorRequestXref	RequestId	RequestId

**Table 3-79. Dependencies on Table: OmRequestGranule**

Referenced by	Primary Key	Foreign Key
OmFile	GranId	GranId
OmReqGrInput	GranId	GranId
OmReqGrOutput	GranId	GranId
OmRequestGranPI	GranId	GranId

**Table 3-80. Dependencies on Table: OmRequestGranPI**

Referenced by	Primary Key	Foreign Key
OmReqGrInput	RGPI_Id	RGPI_Id
OmReqGrOutput	RGPI_Id	RGPI_Id

**Table 3-81. Dependencies on Table: OmStatus**

Referenced by	Primary Key	Foreign Key
OmActionQueue	StatusCode	ActionStatus
OmBundlingOrder	StatusCode	BundlingOrderStatus
OmNotification	StatusCode	NotificationStatus
OmOperatorIntervention	StatusCode	InterventionStatus
OmRequestGranule	StatusCode	RequestGrStatus
OmRequestInterventions	StatusCode	RequestStatus

### 3.1.10 Triggers

Sybase supports the enforcement of business rules via the use of triggers. A trigger is a set of activities or checks that are performed automatically whenever a row is inserted, updated, or deleted from a given table. Sybase allows the definition of insert, update, and delete triggers at the table level. Table 3-82 defines the triggers used within the OMS database.

**Table 3-82. Order Manager Database Triggers**

Table	Trigger	Description
OmOperatorIntervention	OmOIDelete	Cascades deletes to OmRequestInterventions
OmProductJob	OmProductJobFreeOrBusyDelete	On delete of a row from the OmProductJob table, set the device status to FREE (EcGlobalDb..OmDevice)
OmProductJob	OmProductJobFreeOrBusyUpdate	Set the device status to FREE if DeviceId set to NULL; Set the device status to BUSY if DeviceId set to this Device (EcGlobalDb..OmDevice)

### 3.1.11 Order Manager Stored Procedures

Sybase also supports business rules via the use of stored procedures. Stored procedures are typically used to capture a set of activities or checks that will be performed on the database repeatedly to enforce business rules and maintain data integrity. Stored procedures are parsed and compiled SQL code that reside in the database and may be called by name by an application, trigger or another stored procedure. A list of the stored procedures Order Manager will be utilizing are identified in Table 3-83.

**Table 3-83. List of Order Manager Stored Procedures (1 of 9)**

Procedure Name
OmActionComplete
OmActivateRequest
OmAddDestination
OmAddEsdtToProdModule
OmAddExternalProcRequest
OmAddGranToRequest
OmAddRequestNote
OmAppendOperatorNotes
OmArchive_requests
OmAssignAllFreeDevices
OmAssignDevice
OmAssignDeviceToVolume
OmCalculateScrolling
OmCancelProcessingGran
OmCancelRequest
OmCancelRequest_Bulk
OmCheckAvailableDevices
OmChecksum
OmCheckVolumeComplete
OmCheckVolumeVerified
OmCleanOMSStagedGran
OmCleanOutputGran
OmCleanupOldData
OmCleanupOrphanedRequests
OmCleanupVolumeForRequest
OmCloseAlertByType
OmCloseIntervention
OmCompleteReqSubmission
OmConfirmMediaDismount
OmConfirmMediaMount
OmCreateBundlingOrder
OmCreateDeviceCheckAction
OmCreateDistributionRequest
OmCreateMediaIntervention
OmCreateMediaMountAction
OmCreateNonBundlingOrder
OmCreateProductJob
OmCreateRequest
OmCreateRequestForGUI
OmCreateSubsetInfo
OmDbCleanArchive
OmDelDPLOMSGranule

**Table 3-83. List of Order Manager Stored Procedures (2 of 9)**

Procedure Name
OmDelOdI_Metadata_User_Email
OmDeleteArchivedRequests
OmDeleteDPLOrderGranuleN
OmDeleteDestination
OmDeleteEsdtFromPM
OmDeleteExternalProcessor
OmDeleteFile
OmDeletePrinter
OmDeleteProdModule
OmDeleteProductJob
OmDeleteRequestNote
OmExpireBundles
OmFailDismount
OmFailGranule
OmFailMediaCollection
OmFailMediaMount
OmFailMediaRequest
OmFailMount
OmFindDeviceForRequest
OmGenerateCleanupAction
OmGenerateComplAlert
OmGetActTypeByComplTime
OmGetActionNotes
OmGetActionQueueList
OmGetActionTypeCnt
OmGetActiveActions
OmGetActiveProcessingGrans
OmGetAddressInfo
OmGetAddressInfo_Arch
OmGetAgingInfo
OmGetAlertDetail
OmGetAlerts
OmGetAllAlerts
OmGetAllCfg
OmGetAllMedia
OmGetAllMediaConfig
OmGetAllMediaStates
OmGetAllQueues
OmGetArchProcessorFilter
OmGetArchive
OmGetArchiveStatus
OmGetAssemblyData
OmGetAssignedVolume
OmGetAssocFileInfo
OmGetAssociatedGranules
OmGetAvailTapeDevices

**Table 3-83. List of Order Manager Stored Procedures (3 of 9)**

Procedure Name
OmGetBrowseInfo
OmGetBrowseUR
OmGetBundInfo
OmGetBundlingCriteria
OmGetBundlingOrder
OmGetCfg
OmGetComplMediaOrdersLastHr
OmGetCompletedInterventions
OmGetCompressionAlg
OmGetConfigedProcStatus
OmGetDPLFSPPath
OmGetDPLParameter
OmGetDestinationParams
OmGetDestinationStatus
OmGetDeviceInfo
OmGetDeviceReport
OmGetDevices
OmGetDevicesToDismount
OmGetDistActionForRequest
OmGetDistribForReqId_Arch
OmGetDistribForRequestId_Arch
OmGetDistribReq_Arch
OmGetDistributionForReqId
OmGetDistributionReq
OmGetDoneFiveMin
OmGetDuplicateRequestIds
OmGetECSEOrder
OmGetECSEOrder_Arch
OmGetEsdtProdModuleXref
OmGetExpirationPeriod
OmGetExplanations
OmGetExtSBSTReqStatus
OmGetExternalProcessor
OmGetFSGrpESDTMappings
OmGetFSStats
OmGetFailedOps
OmGetFileSystemAlertDetail
OmGetFileVolumeGroup
OmGetFtpPushRequests
OmGetFtpPushScpInfo
OmGetFtpPushScpMedia
OmGetFtpPushScpRequests
OmGetGrForRequestId_Arch
OmGetGranFiles
OmGetGranProclnstr
OmGetGranProclnstr_Arch



**Table 3-83. List of Order Manager Stored Procedures (4 of 9)**

Procedure Name
OmGetGranProcessingInstr
OmGetGranSubSetInfo
OmGetGranuleDelivery
OmGetGranuleTotals
OmGetGranulesForRequestId
OmGetGranulesForVolume
OmGetHEGOrderStatus
OmGetInterventionForRequestId
OmGetInterventionGranInfo
OmGetInterventionReqInfo
OmGetInterventionType
OmGetIntvnTotals
OmGetJewelCase
OmGetJobInfo
OmGetLockRetentionPeriod
OmGetLongName
OmGetMediaActionList
OmGetMediaCollInfo
OmGetMediaOrdersLastHour
OmGetMediaProcessingMode
OmGetModes
OmGetNotification
OmGetNumStagingRequests
OmGetODLString
OmGetOdlMetadataUserEmail
OmGetOpenInterventions
OmGetOrderRequestStatus
OmGetOrderStatus
OmGetOrderStatusByDate
OmGetOutputGran
OmGetOutputGranPath
OmGetOutputGransForRequest
OmGetOverallStagStatus
OmGetOverallStats
OmGetPartitionInfo
OmGetPartitionedGranules
OmGetPendingJobRequestSummary
OmGetPhysGranule
OmGetPhysMedTotals
OmGetPrinters
OmGetProcReqInfo
OmGetProcessorFilter

**Table 3-83. List of Order Manager Stored Procedures (5 of 9)**

Procedure Name
OmGetProcessorStatus
OmGetProdDeviceStatus
OmGetProdModules
OmGetQueueState
OmGetReqInfo
OmGetReqProcessingInstr
OmGetRequestGranule
OmGetRequestMediaInfo
OmGetRequestNotes
OmGetRequestNotes_Arch
OmGetRequestOutputGran
OmGetRequestStatus
OmGetRequestTotals
OmGetRequestVolumes
OmGetResourceCategories
OmGetRetTimePeriod
OmGetRetryMode
OmGetRimageLoads
OmGetSBSTMedia
OmGetSBSTRequests
OmGetSBSTRequests_Arch
OmGetSDRVFileInfo
OmGetUniqueLinkName
OmGetUserProfile
OmGetUserProfile_Arch
OmGetVolumesForRequestId
OmGetVolumesForRequestId_Arch
OmGetWaterMarks
OmGetWorkedBy
OmGranuleReplacement
OmInsArchive
OmInsBulkGranules
OmInsBulkGranules_cli
OmInsBulkGranules_nondp
OmInsClosedReqIntervention
OmInsDPLActionN
OmInsDestStats
OmInsGranuleFile
OmInsInputGran
OmInsNonECSOMGranule
OmInsOdIMetadataUserEmail
OmInsSingleGran
OmInsStagingStats
OmInsSubSetterGran
OmInsertAction
OmInsertBillableGranule

**Table 3-83. List of Order Manager Stored Procedures (6 of 9)**

Procedure Name
OmInsertBundleRequest
OmInsertDevice
OmInsertExternalProcessor
OmInsertFile
OmInsertGranule
OmInsertIntervention
OmInsertJewelCase
OmInsertNotification
OmInsertNotificationAction
OmInsertNotificationOnly
OmInsertOptAddress
OmInsertOutputGranuleInfo
OmInsertPrinter
OmInsertProdModule
OmInsertReqIntervention
OmInsertSNFailureActions
OmInsertSubSetInfo
OmIsGranuleInDPL
OmIsUsedByODLRequestor
OmListBundOrderByUser
OmLockGranuleForOMS
OmLongUpdateCounts
OmMaxCompletionCriteriaValues
OmMediaCollComplete
OmMediaFilter
OmPackageAssembled
OmPackageNotAssembled
OmParseVector
OmPartitionRequest
OmPopulateGranFiles
OmPreValidate
OmPreserveTempData
OmPrintOutputs
OmProcessMediaDisposition
OmProcessRequestDisposition
OmProcess_FailRequest_Bulk
OmProcess_Submit_Bulk
OmRemoveComplActionsFromTable
OmRemoveComplIntFromTable
OmRemoveCompletedActions
OmRemoveCompletedInterventions
OmRemoveMediaFromDevice
OmRemoveSingleRequest
OmRemoveStaleGranuleLock
OmResetActions
OmResetGranCountSize

**Table 3-83. List of Order Manager Stored Procedures (7 of 9)**

Procedure Name
OmResubmitRequest
OmResubmitRequest_Bulk
OmResumeRequest_Bulk
OmRetrieveOrders
OmRetryAction
OmRetryRequestVolume
OmServerProcessStop
OmSetALLQueueState
OmSetDdistRetentionValue
OmSetMetadataFormat
OmSetQueueState
OmSetRequestStatusN
OmSetScrambledPullDirName
OmSet_OI_Done
OmStopRequestVolume
OmStopResumeExtProcessor
OmSuspResumeDestination
OmSuspResumeDevice
OmSuspResumeNewRequests
OmSuspResumeRequest
OmSuspendResumeArchive
OmUnlockGranuleForOMS
OmUpdAgingInfo
OmUpdAllDestRequests
OmUpdCfg
OmUpdConfigParam
OmUpdCountsForRequest
OmUpdDestParams
OmUpdFailGrStatForRequest
OmUpdGrStatusForRequest
OmUpdGranuleSize
OmUpdMediaConfig
OmUpdProcessID
OmUpdProcessingMode
OmUpdProdDeviceActions
OmUpdRequestCategory
OmUpdRequestGranSource
OmUpdRequestGranStatus
OmUpdRequestPriority
OmUpdRetTimePeriod
OmUpdWaterMarks
OmUpdateActionNotes
OmUpdateActionStatus
OmUpdateAddresses
OmUpdateBundlingOrder
OmUpdateCurrentWorker

**Table 3-83. List of Order Manager Stored Procedures (8 of 9)**

Procedure Name
OmUpdateDPLOrderFlag
OmUpdateDevice
OmUpdateDeviceStatus
OmUpdateExternalProcessor
OmUpdateFtpPushInfo
OmUpdateFtpPushScplInfo
OmUpdateGranStatus
OmUpdateGranuleId
OmUpdateJewelCase
OmUpdateMetadataFormat
OmUpdateOI_Annotation
OmUpdateOmRequest
OmUpdateOverallStats
OmUpdatePartitionedGranule
OmUpdatePrinter
OmUpdatePriorGrStatus
OmUpdatePriorReqState
OmUpdateProdModule
OmUpdateQCflag
OmUpdateRequestNote
OmUpdateVolStatus
OmUserFilter
OmValidateBundlingAge
OmValidateDPLGranules
OmValidateFinalRequestSize
OmValidateGranules
OmValidateReqLimits
OmValidateRequest
OmValidateRpclId
OmValidateUser
OmValidateUserId
datawarning
logdump
logwarning
sp_thresholdaction
OmDelChecksumUserEmail
OmInsChecksumUserEmail
OmGetActiveRequestActions
OmGetOrderRequestStatScroll
OmCloseOpenHEGActions
OmGetOrderStatusForOmGui
OmGetOrderStatusScroll
OmGetAssociatedGranulesScroll
OmGetChecksumUserEmail
OmGetHistoricalMedia
OmGetEpdFSPaths

**Table 3-83. List of Order Manager Stored Procedures (9 of 9)**

Procedure Name
OmProcDeletePhantom
OmGetRequestsToClose
OmUpdateRequestStatus
OmDelCompressedEsdt
OmCloseRequest
OmGetCompressedEsdt
OmInsCompressedEsdt
OmVerifyRefreshGranFiles
OmGetGranulesByLGID
OmInsBulkGranules_ewoc
OmGetMediaRequestStats
OmMoveRequestToPending
OmGetInventoryFileNames
OmTerminateOrphanedEchoRequest
OmUpdateEPOrderType
OmRegisterEwocEpOrder
OmUpdateOrderStatus
OmCreateEwocNonBundlingOrder
OmFailSpatialGranule
OmCancelBundle
OmGetBundleCriteria
OmListBundOrderByEDate
OmListBundOrderByOrd
OmListBundOrderByMedia
OmListBundOrderByStatus
OmListBundOrderBySDate
OmUpdBundCriteria
OmStatusFilter

### 3.1.12 MSS Stored Procedures

The implementation of Order Manager involves accessing the MSS database to generate new orders and requests. Stored procedures that will be stored within the MSS database to accomplish these functions are identified in the MSS 311 document.

### 3.1.13 AIM Stored Procedure Modification

The Order Manager application will be accessing the AIM database to validate granules within requests to determine their accessibility. Modified stored procedures within AIM to accomplish this function are identified in AIM 311 document.

### 3.1.14 DPL Stored Procedures

The implementation of Order Manager involves accessing the DPL to process and validate orders and requests. Stored procedures that will be stored within the DPL database to accomplish these functions are identified in the DPL 311 document.

## 3.2 Flat File Usage

A flat file is an operating system file that is written and subsequently read serially, generally independent of other files that exist, and usually static in nature. There are cases when the implementation of persistent data is better suited to a flat file than to a database (e.g., system configuration data, external interface data). There are No flat files used by the Order Manager Subsystems. Configuration information is stored in the Order Manager database. Additional configuration information may be found in the configuration registry.

### 3.2.1 File Descriptions

Not Applicable

### 3.2.2 Field Specifications

Not Applicable

### 3.2.3 Domain Definitions

Not Applicable

## 3.3 OMS States

### 3.3.1 MSS States

StatusCode	StatusDescription
Abort	Abort
Aborted	Aborted
Active	Active
Bundling	Bundling
Cancelled	Cancelled
Expired	Expired
Not Found	Not Found
Operator Intervention	Operator Intervention
Partitioned	Partitioned
Pending	Pending
Pending Media Prod	Queue request for Media Creation; request waits for media assignment
Prep for Distribution	Prep for Distribution
Queued	Queued
QC Complete	
QC Hold	Physical Media Creation Complete, Media Need Verification
AIM Staging	AIM Staging
Shipped	DN has been queued
Staging	Staging
Subsetting	Subsetting
Terminated	Terminated
Transferring	Transferring
Waiting for Shipment	QC for all volumes successfully completed

### 3.3.2 Request/Granule States

Request-Granule States	Null, Transferring, Shipped, Failed, Hold, Skipped
Physical Granule Level States	Null, Staging, Staged, Failed
Request Level States (MSS)	Null, Staging, Transferring, Shipped, Operator Intervention, Canceled, Queued, Pending, Partitioned



## 4. Performance and Tuning Factors

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### 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 OMS 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
P	Primary Key
F	Foreign Key
U	Unique - Only one for the column code combination
C	Clustered or non-clustered index

**Table 4-2. Index List (1 of 5)**

Table	Index Name	Column Name(s)	P	F	U	C
EcDbDatabaseVersions	pk_ecdbversions	EcDbSchemaVersionId, EcDbDropVersion	Y	N	N	Y
OmActionQueue	pk_omactque	ActionQueueId	Y	N	N	Y
OmActionQueue	x_omactquenot	NotificationId	N	N	Y	N
OmActionQueue	x_omactquestat	ActionStatus	N	N	Y	N
OmActionQueue	x_actqueuereq	RequestId	Y	N	N	Y
OmActionType	pk_omactiontypeactype	ActionType	Y	N	N	Y
OmAddress_R	OmAddress_R_orderId_cl	orderId	Y	N	N	Y
OmAddress_R	OmAddress_R_userId	userId, orderId	Y	N	N	Y
OmAgingConfig	pk_omagingconfig	AgingConfigId	Y	N	N	Y
OmArchive	pk_omarchive	ArchiveId	Y	N	N	Y
OmBundlingOrder	pk_ombundord	BundlingOrderId	Y	N	N	Y
OmBundlingOrder	x_ombundexpdate	ExpirationDate	N	N	Y	N

**Table 4-2. Index List (2 of 5)**

Table	Index Name	Column Name(s)	P	F	U	C
OmBundlingOrder	x_ombundordmedid	MediaTypeId, BundlingOrderId	N	N	Y	N
OmBundlingOrder_R	x_bundlingorder_req_idx	RequestId	Y	N	N	Y
OmCode	pk_omcode	Code, TableName	Y	N	N	Y
OmConfigDestination	pk_omconfigdest	DestinationId	Y	N	N	Y
OmConfigDestination	x_destsrc_hostdir	DestinationHost, Directory	N	N	N	N
OmConfigDestination	x_destsrc_name	DestinationName	N	N	N	N
OmConfigParameter	pk_omconfigparameter	ConfigId	Y	N	N	Y
OmConfigRetTimePeriod	pk_omconfrettimeperiod	RetTimePeriodId	Y	N	N	Y
OmDestStatistics	pk_omftppushstatistics	DestinationId, IntervalStart, IntervalStop	Y	N	N	Y
OmDevice	Label_noncl	Label	N	N	N	N
OmDevice	StatusDeviceId_noncl	Status, DeviceId				
OmDevice	pk_omdevice	DeviceId	Y	N	N	Y
OmDevice	x_devld	DeviceId	N	N	N	N
OmDeviceMediaXref	PK_OMDEVICEMEDIAXREF	DeviceId,MediaTypeId	Y	N	N	Y
OmDuplicateCheck	pk_omduplicatecheck	UserCheckSum, RequestId	Y	N	N	Y
OmDuplicateCheck	x_requestId	RequestId	N	N	Y	N
OmEsdtRef	PK_OMESDTREF	EsdtType, ProdModuleId	Y	N	N	Y
OmExplanation	pk_omexplan	ExplanationCode	Y	N	N	Y
OmExternalProcessor	pk_omextprocessor	ProcessorId	Y	N	Y	Y
OmExternalProcessor	x_endpoint	Endpoint	N	N	Y	N
OmExternalProcessor	x_procname	ProcessorName	N	N	Y	N
OmExternalProcessor	x_extproEmail	DNEmailAddr	N	N	Y	N
OmFile	pk_omfile	FileId	Y	N	Y	Y
OmFile	granidfname_noncl	GranId, FileName	N	Y	N	N
OmGranule_R	x_omgran_r_ecsdpl	ECS_GranuleId, DPL_GranuleId	Y	N	N	Y
OmGranule_R	omreq_r_cl	GranId, RequestId	Y	N	N	Y
OmGranule_R	x_omreq_r_rg_lastupdate	LastUpdate, RequestId	Y	N	N	Y
OmGranule_R	x_omgran_r_requestid	RequestId	Y	N	N	Y
OmGranuleCounts	granCnts_gs	GrStatus	Y	N	N	Y
OmGranuleCounts	granCnts_gr	GranId, RequestId	Y	N	N	Y
OmGranuleCounts	granCnts_rq	RequestId	Y	N	N	Y

**Table 4-2. Index List (3 of 5)**

<b>Table</b>	<b>Index Name</b>	<b>Column Name(s)</b>	<b>P</b>	<b>F</b>	<b>U</b>	<b>C</b>
OmGranuleDelivery	pk_GranDelivery	GranId, GranuleDeliveryId	Y	N	N	Y
OmGranuleDelivery	x_productjobid	ProductJobId	N	Y	N	N
OmJewelCase	PK_OMJEWELCASE	JewelCaseId	Y	N	N	Y
OmMediaType	pk_ommedtyp	MediaTypeId	Y	N	N	Y
OmNotification	pk_omnot	NotificationId	Y	N	N	Y
OmNotification	x_omnotreq	RequestId, NotificationId	N	Y	N	N
OmOdI_MetadataRequestors	pk_omodlmetreq	EmailAddr	Y	N	Y	Y
OmOperatorAlert	pk_omoperatoralert	AlertId	Y	N	N	Y
OmOperatorIntervention	x_omreqidcomptime	RequestId, CompletionTime	Y	N	N	Y
OmOperatorIntervention	x_omintervstatus	InterventionStatus	Y	N	N	Y
OmOperatorIntervention	pk_omoperinterv	OperatorInterventionId	Y	N	N	Y
OmOperatorIntervention	x_omrequestid	RequestId	Y	N	N	Y
OmOrder_R	omorder_r_LastUpdate	timeOfLastUpdate, orderId	Y	N	N	Y
OmOrder_R	omorder_r_cl	orderId	Y	N	N	Y
OmOrder_R	x_omord_r_eMailOrderId	eMailAddr, ordered	N	N	Y	N
OmOrder_R	x_standingOrderIdorderId	standingOrderId,orderId	N	N	Y	N
OmPrinterConfig	pk_omprinter	PrinterId	Y	N	N	Y
OmProcessingInstruction	pk_omproctext	RequestId	Y	Y	Y	Y
OmProcessorRequestXref	pk_omprocreqxref	RequestId, ProcessorId	Y	Y	Y	Y
OmProductJob	pk_volume	ProductJobId	Y	N	N	Y
OmProductJob	ncldx_RequestIdProductJobId	RequestId, ProductJobId	N	Y	N	N
OmProductJob_R	pk_reqVolume	RquestId, VolumeName	Y	N	N	Y
OmProductModule	pk_prodModule	ProdModuleId	Y	N	N	Y
OmQueue	pk_OmQueue	QueueName	Y	N	N	Y
OmReqGrInput	pk_OmReqGrInput	GranId, RGPI_Id	Y	N	N	Y
OmReqGrOutput	pk_OmReqGrOutput	GranId, RGPI_Id	Y	N	N	Y
OmReqGrOutput	rpgi_id_noncl	RGPI_Id	N	Y	N	N
OmRequest	x_omdestinationidreqid	DestinationId, RequestId	Y	N	N	Y
OmRequest	x_label	Label	Y	N	N	Y
OmRequest	x_ommedtypereqid	MediaTypeId, RequestId	Y	N	N	Y
OmRequest	x_omorderid	OrderId	Y	N	N	Y
OmRequest	pk_omreq	RequestId	Y	N	N	Y

**Table 4-2. Index List (4 of 5)**

Table	Index Name	Column Name(s)	P	F	U	C
OmRequest_R	x_omreq_r_receiveDateTime	receiveDateTime, requestId	Y	N	N	Y
OmRequest_R	omreq_r_cl	requestId	Y	N	N	Y
OmRequest_R	x_omreq_r_requestStatus	requestStatus, requestId	Y	N	N	Y
OmRequest_R	x_omreq_r_timeOfLastUpdate	timeOfLastUpdate, requestId	Y	N	N	Y
OmRequest_R	x_omreq_r_receiveDTorderId	receiveDateTime,orderId	N	N	Y	N
OmRequest_R	x_omreq_r_orderId	orderId	N	N	Y	N
OmRequest_R	x_omrequest_r_procname	ProcessorName	N	N	Y	N
OmRequest_Temp	ncldx1	OrderId	Y	N	N	Y
OmRequest_Temp	ncldx2	RequestId	Y	N	N	Y
OmRequest_Temp	ncldx3	RequestKey, RequestId	Y	N	N	Y
OmRequestGranPI	GranId_noncl	GranId	Y	N	N	Y
OmRequestGranPI	pk_OmRequestGranPI	RGPI_Id	Y	N	N	Y
OmRequestGranPI_R	omrggranpi_r_granid	GranId	Y	N	N	Y
OmRequestGranPI_R	omreqgranpi_r_rgpIID	RGPI_Id	Y	N	N	Y
OmRequestGranPI_Temp	omrggranpi_t_granid	GranId	Y	N	N	Y
OmRequestGranPI_Temp	omreqgranpi_t_rgpIID	RGPI_Id	Y	N	N	Y
OmRequestGranule	dplgranule_noncl	DPL_GranuleId	Y	N	N	Y
OmRequestGranule	x_omgranecs_dpl	ECS_GranuleId, DPL_GranuleId	Y	N	N	Y
OmRequestGranule	pk_omreqgran	GranId	Y	N	N	Y
OmRequestGranule	reqGrStatusGranId_noncl	RequestGrStatus, GranId	Y	N	N	Y
OmRequestGranule	x_omreqgranstat	RequestId, RequestGrStatus	N	N	Y	N
OmRequestGranule_Temp	gldx1	GranId	Y	N	N	Y
OmRequestGranule_Temp	gldx2	RequestId, Gran_Id_No, GranId	Y	N	N	Y
OmRequestGranule_Temp	gldx3	Temp_Key, RequestId, Gran_Id_No, GranId	Y	N	N	Y
OmRequestInterventions	pk_omreqinterid	OperatorInterventionId, RequestId, RequestStatus, ExplanationCode	Y	N	N	Y
OmRequestInterventions	x_RequestId	RequestId	N	Y	N	N
OmRequestNotes	PK_OMREQUESTNOTES	RequestId, NoteSeq	Y	N	N	Y

**Table 4-2. Index List (5 of 5)**

Table	Index Name	Column Name(s)	P	F	U	C
OmRequestNotes_R	PK_OMREQUESTNOTES	RequestId, NoteSeq	Y	N	N	Y
OmStagingConfig	pk_omstagingconfig	StagingConfigId	Y	N	N	Y
OmStagingCounts	x_omstagingcounts	CntGransStaging, CntGransStagShipd	Y	N	N	Y
OmStagingStatistics	pk_omstagingstatistics	StagingStatsId, IntervalStart, IntervalStop	Y	N	N	Y
OmStatus	pk_omstatus	StatusCode	Y	N	N	Y
OmSubSettingInfo	pk_subset	RequestId, GranId, LineNum	Y	N	N	Y
OmSuspendedDestination	pk_omsuspendeddestination	DestinationHost, DestinationName	Y	N	N	Y
OmTerminalEchoRequest	pk_omterm	RequestId	Y	N	N	Y

## 4.2 Segments

Not Applicable

## 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:

- 1 Data cache - retains most recently accessed data and index pages
- 2 Procedure cache - retains most recently accessed stored procedure pages
- 3 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 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 OMS Subsystem database. Named caches may be defined as the memory usage of the OMS database becomes more well known and the DAACs move into an operational environment. As named caches are defined this portion of the document will be updated.

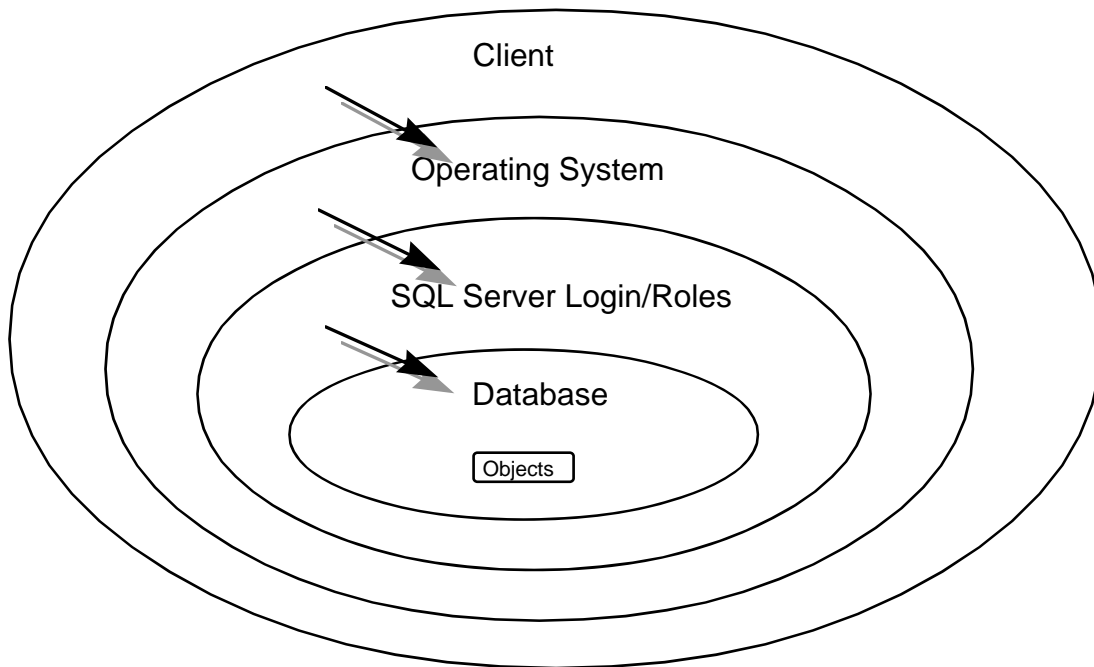
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# 5. Database Security

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## 5.1 Initial Users

The database security discussed within this section is bounded to 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**

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 group 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 member of a group inherits all of the permissions granted to that group. No groups have been initially defined in the <SUBSYS> Subsystem “default database.

The DAACs should define database groups to support the database security requirements of their individual DAACs. 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.

## 5.2 Login/Group Object Permissions

During initial database installation logins used by the ECS custom code were created and permissions assigned for access to the OMS Subsystem database. In addition, special database installation login, *oms\_role*, was created to support database installation needs. For each login, the level of access is limited to that associated with their login, group or assigned group/role. Object Permissions are set within the installation scripts of the OMS Subsystem for each object and group/role.



Permissions are identified in Table 5-1. A specification of the object permissions is contained in Table 5-2.

**Table 5-1. Permission Key**

Permission	Description
A	All
S	Select
I	Insert
U	Update
D	Delete
E	Execute

**Table 5-2. Object Permissions**

Group/Role	SYBASE LOGIN	Object	Permissions Granted					A
			S	I	U	D	E	
EMSgroup	EcDbEMSdataExtractor							
software	EcCsMtMGateway	All	X					
	EcDIActionDriver							
	EcDICleanupDataPool							
	EcDIDpmGUI							
	EcDIInsertUtility							
	EcDIWebAccess							
	EcDmV0ToEcsGateway							
	EcNbActionDriver							
	EcNbSubscriptionCLI							
	EcNbSubscriptionGUI							
	EcOmGui							
	EcOmOrderManager							
	OmSrCliDriver							
PDS_Group	PDS							

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# 6. Scripts

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## 6.1 Installation Scripts

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

**Table 6-1. Installation Scripts**

Script File	Description
EcOmDbBuild	Create a new initialized OMS database
EcOmDbPatch	Upgrade an existing <SUBSYS> database to the next valid database version level.
EcOmDbLogins	Adds login Ids needed by various OMS clients and applications.
EcOmBcpIn	Bulk copy data into all OMS tables.
EcOmBcpOut	Bulk copy data out from all OMS tables.
EcOmDbUser	Adds all groups and users to the OMS Database.

## 6.2 De-Installation Scripts

Scripts used to support de-installation of the OMS Subsystem database are listed in Table 6-2.

**Table 6-2. De-Installation Scripts**

Script File	Description
EcOmDbDrop	Drop all objects in the specified <SUBSYS> database.

## 6.3 Backup and Recovery Scripts

Scripts used to perform backup and recovery of the OMS Subsystem database are listed in Table 6-3. These scripts should be configured to run automatically using the UNIX chron facility. It is recommended that, transaction logs dumps (incremental dumps) are performed a minimum of 3 times each day. It is recommended that database dumps (full database dumps) are performed a minimum of once each day. Backup and recovery are M&O activities. At their discretion, DAACs may modify these backup/recover scripts or utilize backup/recovery scripts developed by their local M&O staff.

**Table 6-3. Backup/Recovery Scripts**

<b>Script File</b>	<b>Description</b>
EcCoDbSyb_DumpDb	Dumps all databases for managed by the SQL server instance.
EcCoDbSyb_DumpTran	Dumps the transaction log for all databases managed by the SQL server.

## 6.4 Miscellaneous Scripts

Miscellaneous scripts applicable to the database are listed in Table 6-4.

**Table 6-4. Miscellaneous Scripts and Input Data Files**

<b>Script</b>	<b>Description</b>
EcDdmMonitorServer	Monitors segment usage and user levels for a selected SQL server. Superseded by DbVision COTS.
EcDdmSegmentUse	Monitors segment usage. Used by EcDdmMonitorServer. Superseded by DbVision COTS.
EcDdmUserCounts	Monitors user access. Used by EcDdmMonitorServer. Superseded by DbVision COTS.
EcCoDbSyb_CkErrorLog	Checks the error log for error messages warranting DBO attention. Superseded by DbVision.
EcCoDbSyb_DbStat	Updates index statistics for each table in the selected database.
EcCoDbSyb_DboMail	Emails DBA error notification via e-mail. Used by EcCoDbSyb_DumpDb/Tran and EcCoDbSyb_CkErrorLog scripts.
EcOmCleanupOldData.ksh	Cleans up requests older than a given number of days.
EcOmRemoveOutOfSyncData.ksh	Remove requests that are out of sync.

# Appendix A. Entity Relationship Diagram

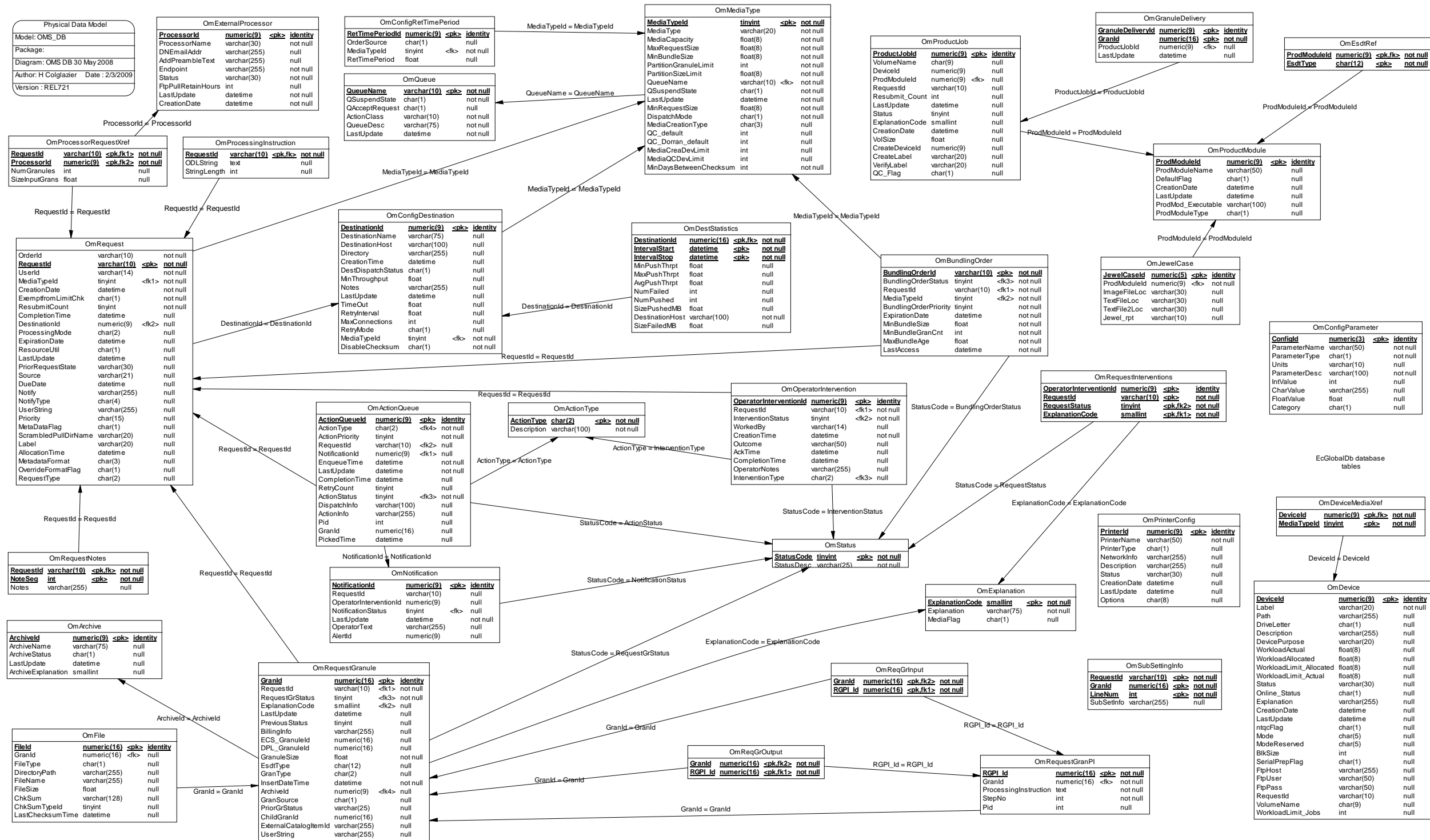


Figure A-1. Order Manager Subsystem Entity Relationship Diagram (1 of 2)

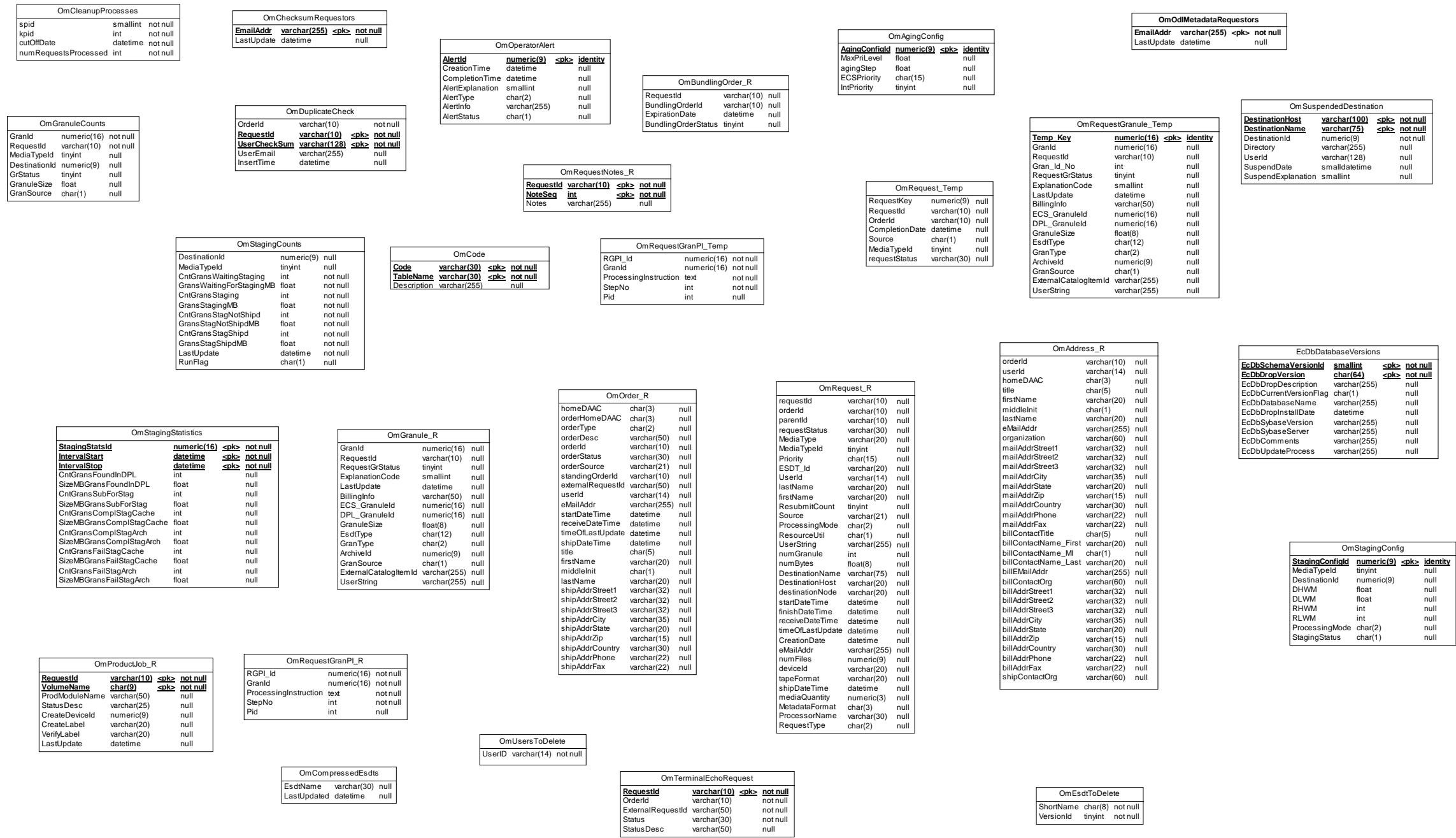


Figure A-1. Order Manager Subsystem Entity Relationship Diagram (2 of 2)

# Abbreviations and Acronyms

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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