F

Background Processes

An Oracle Database **background process** is defined as any process that is listed in V\$PROCESS and has a non-null value in the PNAME column.

Table F-1 describes Oracle Database background processes.

The External Properties column lists the type of instance in which the process runs. If the process is specific to a particular feature, then the column names the feature.



When the <code>THREADED_EXECUTION</code> initialization parameter is set to <code>TRUE</code> on Linux and UNIX, the <code>DBW, PMON, PSP</code>, and <code>VKTM</code> background processes run as operating system processes, and the other background processes run as operating system threads.

See "THREADED_EXECUTION" for more information about the ${\tt THREADED}$ <code>EXECUTION</code> initialization parameter.

Table F-1 Background Processes

Name	Expanded Name	Short Description	Long Description	External Properties
ABMR	Auto BMR Background Process	Coordinates execution of tasks such as filtering duplicate block media recovery requests and performing flood control	When a process submits a block media recovery request to ABMR, it dynamically spawns worker processes (BMR <i>n</i>) to perform the recovery. ABMR and BMR <i>n</i> terminate after being idle for a long time. See Also: Oracle Database Backup and Recovery User's Guide	Database instances
ACFS	Oracle Advanced Cluster File System (Oracle ACFS) CSS Process	Tracks the cluster membership in CSS and informs the file system driver of membership changes	The ACFS process delivers CSS membership changes to the cluster file system. These membership changes are required for the file system to maintain file system consistency within the cluster.	Oracle ASM instances, Oracle RAC
ACMS	Atomic Control File to Memory Service Process	Coordinates consistent updates to a control file resource with its SGA counterpart on all instances in an Oracle RAC environment	The ACMS process works with a coordinating caller to ensure that an operation is executed on every instance in Oracle RAC despite failures. ACMS is the process in which a distributed operation is called. As a result, this process can exhibit a variety of behaviors. In general, ACMS is limited to small, nonblocking state changes for a limited set of cross-instance operations.	Database instances, Oracle RAC
AMB <i>n</i>	See ASMB, AME	Bn		

Table F-1 (Cont.) Background Processes

Name	Expanded Name	Short Description	Long Description	External Properties
APnn	Replication Apply Process Coordinator Process	Obtains transactions from the reader server and passes them to apply servers	The coordinator process name is AP <i>nn</i> , where <i>nn</i> can include letters and numbers. For more information about the coordinator process, see V\$XSTREAM_APPLY_COORDINATOR for XStream and V\$GG_APPLY_COORDINATOR for Oracle GoldenGate. See Also: Oracle Database XStream Guide	Database instances, Logical Standby, XStream Inbound servers, XStream Outbound servers, GoldenGate Integrated Replicat
AQPC	AQ Process Coordinator	Per instance AQ global coordinator	AQPC is responsible for performing administrative tasks for AQ Primary Class Processes including commands like starting, stopping, and other administrative tasks. This process is automatically started on instance startup.	Database instances Advanced Queueing
ARB0	ASM Rebalance Process	Rebalances data extents within an Oracle ASM disk group	ARB0 uses the value of the ASM_POWER_LIMIT initialization parameter for the Oracle ASM instance as the maximum power for disk rebalancing.	Oracle ASM instances
ARC <i>n</i>	Archiver Process	Copies the redo log files to archival storage when they are full or an online redo log switch occurs	ARCn processes exist only when the database is in ARCHIVELOG mode and automatic archiving is enabled, in which case ARCn automatically archives online redo log files. LGWR cannot reuse and overwrite an online redo log group until it has been archived. The database starts multiple archiver processes as needed to ensure that the archiving of filled online redo logs does not fall behind. Possible processes are ARC0-ARC9 and ARCa-ARCt. The LOG ARCHIVE MAX PROCESSES initialization	Database instances
			parameter specifies the number of ARC <i>n</i> processes that the database initially invokes. See Also: Oracle Database Concepts and Oracle	
ARS <i>n</i>	ASM Recovery Worker Process	Recovers ASM transactional operations	Database Administrator's Guide The ASM RBAL background process coordinates and spawns one or more of these worker processes to recover terminated ASM transactional operations. These processes run only in the Oracle ASM instance. Possible processes are ARSO-ARS9.	Oracle ASM instances



Table F-1 (Cont.) Background Processes

Name	Expanded Name	Short Description	Long Description	External Properties
ASMB, AMB <i>n</i>	ASM Background Process	Background Oracle ASM instance, process managing storage and providing statistics	In a database instance, the ASMB and AMB <i>n</i> processes enable the database instance to connect to an Oracle ASM instance in order to access Oracle ASM disk groups. Possible processes are ASMB and AMB1-AMB3.	Database instances, Oracle ASM instances, Oracle IOServer
			In an Oracle ASM instance, the ASMB process runs when the ASMCMD cp command runs, or when a database instance first starts if the server parameter file is stored in Oracle ASM. ASMB also runs with Oracle Cluster Registry on Oracle ASM. The only possible process is ASMB; AMBn processes do not run in Oracle ASM instances.	(IOS) instances
			In an Oracle IOServer (IOS) instance, the ASMB process enables the IOS instance to connect to an Oracle ASM instance in order to access Oracle ASM disk groups. The only possible process is ASMB; AMBn processes do not run in IOS instances.	
ASnn	Replication Apply Reader or Apply Server	Computes dependencies between logical change records (LCRs) and assembles messages into transactions (Reader Server) Applies LCRs to database objects or passes LCRs and user messages to their appropriate apply handlers (Apply Server)	When the reader server finishes computing dependencies between LCRs and assembling transactions, it returns the assembled transactions to the coordinator process. Query V\$STREAMS_APPLY_READER, V\$XSTREAM_APPLY_READER, and V\$GG_APPLY_READER for information about the reader server background process. An apply server receives the transactions from the coordinator background process, and either applies database changes in LCRs or sends LCRs or messages to apply handlers. Apply servers can also enqueue a queue. If an apply server encounters an error, then it then tries to resolve the error with a userspecified conflict handler or error handler. If an apply server cannot resolve an error, then it rolls back the transaction and places the entire transaction, including all of its messages, in the error queue. When an apply server commits a completed transaction, this transaction has been applied. When an apply server places a transaction in the error queue and commits, this transaction also has been applied. Query V\$STREAMS_APPLY_SERVER for information about the apply server background process. For XStream Inbound servers, query V\$XSTREAM_APPLY_SERVER. For GoldenGate Integrated Replicat, query V\$GG_APPLY_SERVER. The coordinator process name is ASnn, where nn can	Database instances, XStream Outbound servers, XStream Inbound servers, GoldenGate Integrated Replicat
BGnn	Background Scheduler Group Process	Runs assorted background maintenance actions in the database	include letters and numbers. The database instance runs various background maintenance tasks that are necessary for database operation. BG <i>nn</i> runs assorted background actions for these maintenance tasks.	Database instances



Table F-1 (Cont.) Background Processes

Name	Expanded Name	Short Description	Long Description	External Properties
BMR <i>n</i>		Fetches blocks from a real-time readable standby database	When a process submits a block media recovery request to ABMR, it dynamically spawns worker processes (BMRn) to perform the recovery. BMRn processes fetch blocks from a real-time readable standby database. ABMR and BMRn terminate after being idle for a long time.	Database instances
			See Also: Oracle Database Backup and Recovery User's Guide	
B <i>nnn</i>	ASM Blocking Worker Process for GMON	Performs maintenance actions on Oracle ASM disk groups	B <i>nnn</i> performs actions that require waiting for resources on behalf of GMON. GMON must be highly available and cannot wait.	Oracle ASM instances
			A B <i>nnn</i> worker is spawned when a disk is taken offline in an Oracle ASM disk group. Offline timer processing and drop of the disk are performed in this worker. Up to five process (B000 to B004) can exist depending on the load.	
BW <i>nn</i>	Database Writer Process	Writes modified blocks from the database buffer cache to the data files	See the Long Description for the DBW n process in this table for more information about the BW nn process.	Database instances
CJQ0	Job Queue Coordinator	,	CJQ0 is automatically started and stopped as needed by Oracle Scheduler.	Database instances
	Process		The JOB_QUEUE_PROCESSES initialization parameter specifies the maximum number of processes that can be created for the execution of jobs. CJQ0 starts only as many job queue processes as required by the number of jobs to run and available resources.	
			See Also: Oracle Database Concepts and Oracle Database Administrator's Guide	
CKPT	Process	and control files of the	At specific times CKPT starts a checkpoint request by messaging DBWn to begin writing dirty buffers. On completion of individual checkpoint requests, CKPT updates data file headers and control files to record most recent checkpoint.	Database instances, Oracle ASM instances
		most recent checkpoint	CKPT checks every three seconds to see whether the amount of memory exceeds the value of the PGA_AGGREGATE_LIMIT initialization parameter, and if so, takes the action described in "PGA_AGGREGATE_LIMIT".	
			See Also: Oracle Database Concepts	
CLnn	Cleanup Worker Process	Performs cleanup of terminated processes	Cleanup workers assist in the cleanup of terminated processes and terminated sessions. The number of workers will be proportional to the amount of cleanup work to be done and the current efficiency of cleanup.	Database instances, Oracle ASM instances
CLG	Persistent Cluster Flash Cache Background Process	For Oracle Data Appliance only, this process performs actions related to recovery of a terminated instance's database flash cache	For Oracle Data Appliance only, in the event of an instance crash, the running instance will recover the crashed instance's database flash cache. The CLG process will perform actions related to scanning the crashed instance's database flash cache and claim flash blocks mastered by the crashed instance.	Database instances, Oracle RAC



Table F-1 (Cont.) Background Processes

Name	Expanded Name	Short Description	Long Description	External Properties
CLMN	Cleanup Main Process	Performs cleanup of terminated processes, terminated sessions, terminated transactions, and terminated network connections	CLMN periodically performs cleanup of all the following: terminated processes, terminated sessions, transactions, network connections, idle sessions, detached transactions, and detached network connections that have exceeded their idle timeout.	Database instances, Oracle ASM instances
CPnn	Replication Capture Process	Captures database changes from the redo log by using the infrastructure of LogMiner	The capture process name is CPnn, where nn can include letters and numbers. The underlying LogMiner process name is MSnn, where nn can include letters and numbers. The capture process includes one reader server that reads the redo log and divides it into regions, one or more preparer servers that scan the redo log, and one builder server that merges redo records from the preparer servers. Each reader server, preparer server, and builder server is a process. Query the V\$XSTREAM_CAPTURE and V\$GOLDENGATE_CAPTURE views for information about this background process.	Database instances, XStream Outbound Servers
			See Also: Oracle Database XStream Guide	
CRnn	LMS CR Worker Process	Offloads the work from LMS so that blocks that require lots of UNDO to be applied do not block the LMS. Such requests are passed on to the	There can be a maximum of eight CR processes per LMS process, with names from CR00 to CR07. Each LMS has its own set with similar name. The CR <i>nn</i> processes are threads and the process ID part will be the same as the owning LMS's process ID. The names for CRnn processes will have the format	Oracle RAC
		worker so that the LMS is not stalled	CR0 <i>n</i> _ <spawning id="" process="">_<thread id="">.</thread></spawning>	
CSnn	I/O Calibration Process	Issues I/Os to storage as part of storage calibration.	CSnn worker processes are started on execution of the DBMS_RESOURCE_MANAGER.CALIBRATE_IO() procedure. There is one worker process per CPU on each node of the database.	Database instances, Oracle RAC
CTWR	Change Tracking Writer Process	Tracks changed data blocks as part of the Recovery Manager block change tracking	CTWR tracks changed blocks as redo is generated at a primary database and as redo is applied at a standby database. The process is slightly different depending on the type of database.	Database instances
		feature	See Also : Oracle Database Backup and Recovery User's Guide	
CXnn	Replication Capture Worker Process	Sends captured LCRs to a receiver, such as an XStream Outbound Server	The capture worker process name is CX <i>nn</i> , where <i>nn</i> can include letters and numbers.	Database instances, XStream Outbound Server
DBRM	Database Resource Manager Process	Sets resource plans and performs other tasks related to the Database Resource Manager	If a resource plan is not enabled, then this process is idle. See Also: Oracle Database Administrator's Guide	Database instances



Table F-1 (Cont.) Background Processes

Name	Expanded Name	Short Description	Long Description	External Properties
DBWn	Database Writer Process	Writes modified blocks from the database buffer cache to the data files	The primary responsibility of the Database Writer Process is to write data blocks to disk. It also handles checkpoints, file open synchronization, and logging of Block Written records.	Database instances
			In many cases the blocks that the Database Writer Process writes are scattered throughout the disk. Thus, the writes tend to be slower than the sequential writes performed by LGWR. The Database Writer Process performs multiblock writes when possible to improve efficiency. The number of blocks written in a multiblock write varies by operating system.	
			The DB_WRITER_PROCESSES initialization parameter specifies the number of Database Writer Processes. There can be 1 to 100 Database Writer Processes. The names of the first 36 Database Writer Processes are DBW0-DBW9 and DBWa-DBWz. The names of the 37th through 100th Database Writer Processes are BW36-BW99. The database selects an appropriate default setting for the DB_WRITER_PROCESSES parameter or adjusts a user-specified setting based on the number of CPUs and processor groups.	
			See Also: "DB_WRITER_PROCESSES"	
DIA0	Diagnostic Process	Detects and resolves hangs and deadlocks		Database instances, Oracle ASM instances
DIAG	Diagnostic Capture Process	Performs diagnostic dumps	DIAG performs diagnostic dumps requested by other processes and dumps triggered by process or instance termination. In Oracle RAC, DIAG performs global diagnostic dumps requested by remote instances.	Database instances, Oracle ASM instances
DM <i>nn</i>	Data Pump Control Job Process	Coordinates the Data Pump job tasks performed by Data Pump worker processes and handles client interactions	The Data Pump control job process is started during job creation and coordinates all tasks performed by the Data Pump job. It handles all client interactions and communication, establishes all job contexts, and coordinates all worker process activities on behalf of the job.	Database instances, Data Pump



Table F-1 (Cont.) Background Processes

Name	Expanded Name	Short Description	Long Description	External Properties
DMON	Data Guard Broker Monitor Process	Manages and monitors a database that is part of a Data Guard broker configuration	When you start the Data Guard broker, a DMON process is created. DMON runs for every database instance that is managed by the broker. DMON interacts with the local database and the DMON processes of the other databases to perform the requested function. DMON also monitors the health of the broker configuration and ensures that every database has a consistent description of the configuration.	Database instances, Data Guard
			DMON maintains profiles about all database objects in the broker configuration in a binary configuration file. A copy of this file is maintained by the DMON process for each of the databases that belong to the broker configuration. The process is created when the DG_BROKER_START initialization parameter is set to true.	
			See Also: Oracle Data Guard Broker	
Dnnn	Dispatcher Process	Performs network communication in the shared server architecture	In the shared server architecture, clients connect to a dispatcher process, which creates a virtual circuit for each connection. When the client sends data to the server, the dispatcher receives the data into the virtual circuit and places the active circuit on the common queue to be picked up by an idle shared server. The shared server then reads the data from the virtual circuit and performs the database work necessary to complete the request. When the shared server must send data to the client, the server writes the data back into the virtual circuit and the dispatcher sends the data to the client. After the shared server completes the client request, the server releases the virtual circuit back to the dispatcher and is free to handle other clients. Several initialization parameters relate to shared servers. The principal parameters are: DISPATCHERS, SHARED_SERVERS, MAX_SHARED_SERVERS, LOCAL LISTENER, REMOTE LISTENER.	Database instances, shared servers
			See Also: Oracle Database Concepts	
DSKM	Worker Diskmon Process	Acts as the conduit between the database, Oracle ASM instances, and the Primary Diskmon daemon to communicate information to Exadata storage	This process is active only if Exadata Storage is used. DSKM performs operations related to Exadata I/O fencing and Exadata cell failure handling.	Oracle ASM instances, Exadata
DWnn	Data Pump Worker Process	Performs Data Pump tasks as assigned by the Data Pump control job process	The Data Pump worker process is responsible for performing tasks that are assigned by the Data Pump control job process, such as the loading and unloading of metadata and data.	Database instances



Table F-1 (Cont.) Background Processes

Name	Expanded Name	Short Description	Long Description	External Properties
EMNC	EMON Coordinator Process	Coordinates database event management and notifications	EMNC is a primary background process that coordinates event management and notification activity in the database, including Streams Event Notifications, Continuous Query Notifications, and Fast Application Notifications.	Database instances
Ennn	EMON Worker Process	Performs database event management and notifications	The database event management and notification load is distributed among the EMON worker processes. These processes work on the system notifications in parallel, offering a capability to process a larger volume of notifications, a faster response time, and a lower shared memory use for staging notifications.	Database instances
FBDA	Flashback Data Archiver Process	Archives historical rows for tracked tables into flashback data archives and manages archive	When a transaction that modifies a tracked table commits, FBDA stores the pre-image of the rows in the archive. FBDA maintains metadata on the current rows and tracks how much data has been archived.	Database instances
		space, organization, and retention	FBDA is also responsible for automatically managing the flashback data archive for space, organization (partitioning tablespaces), and retention. FBDA also keeps track of how far the archiving of tracked transactions has progressed.	
			See Also: Oracle Database Development Guide	
FDnn	Oracle ASM Stale FD Cleanup Worker Process	Cleans up Oracle ASM stale file descriptors on foreground processes	This process cleans up Oracle ASM stale file descriptors on foreground processes if an Oracle ASM disk is globally closed.	Database and Oracle ASM instances
FENC	Fence Monitor Process	Processes fence requests for RDBMS instances which are using Oracle ASM instances	CSS monitors RDBMS instances which are connected to the Oracle ASM instance and constantly doing I/Os. When the RDBMS instance terminates due to a failure, all the outstanding I/O's from the RDBMS instance should be drained and any new I/O's rejected. FENC receives and processes the fence request from CSSD.	Oracle ASM instances
FMON	File Mapping Monitor Process	Manages mapping information for the Oracle Database file mapping interface	The DBMS_STORAGE_MAP package enables you to control the mapping operations. When instructed by the user, FMON builds mapping information and stores it in the SGA, refreshes the information when a change occurs, saves the information to the data dictionary, and restores it to the SGA at instance startup.	Database instances, Oracle ASM instances
			FMON is started by the database whenever the FILE_MAPPING initialization parameter is set to true.	
FSFP	Data Guard Broker Fast Start Failover Pinger Process	Maintains fast-start failover state between the primary and target standby databases	FSFP is created when fast-start failover is enabled.	Database instances, Data Guard
GCR <i>n</i>	Global Conflict Resolution Worker Process	Performs synchronous tasks on behalf of LMHB	GCR <i>n</i> processes are transient worker processes that are started and stopped as required by LMHB to perform synchronous or resource intensive tasks.	Database instances, Oracle ASM instances, Oracle RAC



Table F-1 (Cont.) Background Processes

Name	Expanded Name	Short Description	Long Description	External Properties
GCWn	GCR Monitor processes (LMHB)	GCR(DRF) monitor processes (LMHB)	Infrastructure helper processes for LMHB. Monitors the LMHB process for stalls, and restarts if necessary.	Database instances, Oracle ASM instances, Oracle RAC instances (prior to Oracle Database 23ai only)
GEN0	General Task Execution Process	Performs required tasks including SQL and DML		Database instances, Oracle ASM instances, Oracle ASM Proxy instances
GMON	ASM Disk Group Monitor Process	Monitors all mounted Oracle ASM disk groups	GMON monitors all the disk groups mounted in an Oracle ASM instance and is responsible for maintaining consistent disk membership and status information. Membership changes result from adding and dropping disks, whereas disk status changes result from taking disks offline or bringing them online.	Oracle ASM instances
GTXn	Global Transaction Process	Provides transparent support for XA global transactions in an Oracle RAC environment	These processes help maintain the global information about XA global transactions throughout the cluster. Also, the processes help perform two-phase commit for global transactions anywhere in the cluster so that an Oracle RAC database behaves as a single system to the externally coordinated distributed transactions. The GLOBAL_TXN_PROCESSES initialization parameter specifies the number of GTXn processes, where n is 0-9 or a-j. The database automatically tunes the number of these processes based on the workload of XA global transactions. You can disable these processes by setting the parameter to 0. If you try to run XA global transactions with these processes disabled, an error is returned. See Also: Oracle Real Application Clusters Administration and Deployment Guide	Database instances, Oracle RAC
Innn	Disk and Tape I/O Worker Process	Serves as an I/O worker process spawned on behalf of DBWR, LGWR, or an RMAN backup session	I/O worker process can be configured on platforms where asynchronous I/O support is not available. These workers are started by setting the corresponding worker enable parameter in the server parameter file. The I/O workers simulate the asynchronous I/O behavior when the underlying platform does not have native support for asynchronous I/O.	Database instances



Table F-1 (Cont.) Background Processes

Name	Expanded Name	Short Description	Long Description	External Properties
IMCO	In-Memory Coordinator	Initiates background population and repopulation of in- memory enabled objects	The IMCO background process initiates population (prepopulation) of in-memory enabled objects with priority LOW/MEDIUM/HIGH/CRITICAL. In-memory enabled objects with priority NONE will not be prepopulated but will be populated on demand via Wnnn processes when queried. The IMCO background process can also initiate repopulation of in-memory objects.	Database instances
			Starting with Oracle Database 19c, IMXT (In-Memory External Table) segments are dropped by the IMCO background process. In previous releases, IMXT segments were dropped by foreground processes.	
IMR0	Instance Membership Recovery Worker Process	Performs synchronous tasks on behalf of LMON	The IMR0 background process performs the Instance Member Recovery synchronous operations on behalf of LMON	Oracle RAC, Database instances, Oracle ASM instances
INSV	Data Guard Broker Instance Worker Process	Performs Data Guard broker communication among instances in an Oracle RAC environment	INSV is created when the DG_BROKER_START initialization parameter is set to true.	Database instances, Data Guard
IPC0	IPC Service Background Process	Common background server for basic messaging and RDMA primitives based on IPC (Inter-process communication) methods.	IPC0 handles very high rates of incoming connect requests, as well as, completing reconfigurations to support basic messaging and RDMA primitives over several transports such as UDP, RDS, InfiniBand and RC.	Oracle RAC
IR <i>nn</i>	Text Index Asynchronous Maintenance	Performs deferred DML maintenance for all Text Indexes in the instance	The IRnn (Information Retrieval) processes perform deferred DML maintenance for all Text Indexes in the instance. They perform all stages of index sync and index optimization. These worker processes are shared across all Text indexes and index partitions for all PDBs. The processes are usually initiated as a result of a COMMIT after a DML on a table with a Text Index.	Database instances
Jnnn	Job Queue Worker Process	Executes jobs assigned by the job coordinator	Job worker processes are created or awakened by the job coordinator when it is time for a job to be executed. Job workers gather all the metadata required to run the job from the data dictionary. The worker processes start a database session as the owner of the job, execute triggers, and then execute the job. After the job is complete, the worker processes commit and then execute appropriate triggers and close the session. The worker can repeat this operation in case additional jobs need to be run.	Database instances



Table F-1 (Cont.) Background Processes

Name	Expanded Name	Short Description	Long Description	External Properties
JP <i>n</i>	Java Patching Worker Process	Patches and updates the Java in the database classes	JPn patches and updates the Java in the database classes. It is only started for Oracle Real Application Clusters (Oracle RAC) databases, and one of the database instances is responsible for patching the Java in the database objects. For mulitenant container databases (CDBs), the process updates each pluggable database (PDB) individually. JPn is started automatically and does not require user intervention.	Oracle RAC
LCK <i>n</i>	Lock Process	Manages global enqueue requests and cross-instance broadcasts	The process handles all requests for resources other than data blocks. For examples, LCKn manages library and row cache requests. Possible processes are LCK0 and LCK1.	Database instances, Oracle ASM instances, Oracle RAC
LDDn	Global Enqueue Service Daemon Helper Worker	Helps the LMD <i>n</i> processes with various tasks	LDDn processes are worker processes spawned on demand by LMDn processes. They are spawned to help the dedicated LMDn processes with various tasks when certain workloads start creating performance bottlenecks. These worker processes are transient as they are started on demand and they can be shutdown when no longer needed. There can be up to 36 of these worker processes (LDD0-LDDz).	
LGnn	Log Writer Worker	Writes redo log	On multiprocessor systems, LGWR creates worker processes to improve the performance of writing to the redo log. LGWR workers are not used when there is a SYNC standby destination.	Database instances
			Possible processes are LG00-LG99.	
LGWR	Log Writer Process	Writes redo entries to the online redo log	Redo log entries are generated in the redo log buffer of the system global area (SGA). LGWR writes the redo log entries sequentially into a redo log file. If the database has a multiplexed redo log, then LGWR writes the redo log entries to a group of redo log files. See Also: Oracle Database Concepts and Oracle	Database instances, Oracle ASM instances
l Man	See I MCn I Mn	•	Database Administrator's Guide	
LM <i>nn</i> LMD <i>n</i>	See LMSn, LMni Global Enqueue Service Daemon Process	Manages incoming remote resource requests from other instances	LMD <i>n</i> processes enqueue resources managed under Global Enqueue Service. In particular, they process incoming enqueue request messages and control access to global enqueues. They also perform distributed deadlock detections. There can be up to 36 of these processes (LMD0-LMDz).	Database instances, Oracle ASM instances, Oracle RAC
LMFC	Lock Manager Flash Cache Process	For Oracle Database Appliance only, performs actions related to recovery of a terminated instance's database flash cache.	For Oracle Database Appliance only, in the event of a instance crash, the running instance will recover the crashed instance's database flash cache. The LMFC process will perform actions related to scanning the crashed instance's database flash cache and claim flash blocks mastered by the crashed instance.	Database instances, Oracle RAC
LMHB	Global Cache/ Enqueue Service Heartbeat Monitor	Monitor the heartbeat of several processes	LMHB monitors the CKPT, DIA <i>n</i> , LCK <i>n</i> , LG <i>nn</i> , LGWR, LMD <i>n</i> , LMON, LMS <i>n</i> , and RMS <i>n</i> processes to ensure they are running normally without blocking or spinning.	Database instances, Oracle ASM instances, Oracle RAC



Table F-1 (Cont.) Background Processes

Name	Expanded Name	Short Description	Long Description	External Properties
LMON			LMON maintains instance membership within Oracle RAC. The process detects instance transitions and performs reconfiguration of GES and GCS resources. See Also: Oracle Real Application Clusters Administration and Deployment Guide	Database instances, Oracle ASM instances, Oracle RAC
LMS <i>n</i> , LM <i>nn</i>	Global Cache Service Process	Manages resources and provides resource control among Oracle RAC instances	LMSn and LMnn processes maintain a lock database for Global Cache Service (GCS) and buffer cache resources. These processes receive, process, and send GCS requests, block transfers, and other GCS-related messages. There can be up to 100 of these processes, named as follows:	Database instances, Oracle ASM instances, Oracle RAC
			LMS0-LMS9 LMSA-LMSZ LM10-LM19 LM1A-LM1Z LM20-LM29 LM2A-LM2R	
			See Also: Oracle Real Application Clusters Administration and Deployment Guide	
LREG	Listener Registration Process	Registers the instance with the listeners	LREG notifies the listeners about instances, services, handlers, and endpoint.	Database instances, Oracle ASM instances, Oracle RAC
LSP0	Logical Standby Coordinator Process	Schedules transactions for Data Guard SQL Apply	LSP0 is the initial process created upon startup of Data Guard SQL Apply. In addition to managing LogMiner and Apply processes, LSP0 is responsible for maintaining inter-transaction dependencies and appropriately scheduling transactions with applier processes. LSP0 is also responsible for detecting and enabling run-time parameter changes for the SQL Apply product as a whole.	Database instances, Data Guard
LSP1		Performs a logical standby dictionary build on a primary database	The LSP1 process is spawned on a logical standby database that is intended to become the new primary database. A logical standby database becomes a primary database because of switchover or failover. The dictionary is necessary for logical standby databases to interpret the redo of the new primary database.	Database instances, Data Guard
LSP2	Logical Standby Set Guard Process	Determines which database objects will be protected by the database guard	The LSP2 process is created as needed during startup of SQL Apply to update the list of objects that are protected by the database guard.	Database instances, Data Guard



Table F-1 (Cont.) Background Processes

Name	Expanded Name	Short Description	Long Description	External Properties
Lnnn	Pooled Server Process	Handles client requests in Database Resident Connection Pooling	In Database Resident Connection Pooling, clients connect to a connection broker process. When a connection becomes active, the connection broker hands off the connection to a compatible pooled server process. The pooled server process performs network communication directly on the client connection and processes requests until the client releases the server. After being released, the connection is returned to the broker for monitoring, leaving the server free to handle other clients. See Also: Oracle Database Concepts	Database instances, Database Resident Connection Pooling
MARK	Mark AU for Resynchronizati on Coordinator Process	Marks ASM allocation units as stale following a missed write to an offline disk	MARK essentially tracks which extents require resynchronization for offline disks. This process runs in the database instance and is started when the database instance first begins using the Oracle ASM instance. If required, MARK can also be started on demand when disks go offline in the Oracle ASM redundancy disk group.	Database instances, Oracle ASM instances
MMAN	Memory Manager Process	Serves as the instance memory manager	This process performs the resizing of memory components on the instance.	Database instances, Oracle ASM instances
MMNL	Manageability Monitor Lite Process	Performs tasks relating to manageability, including active session history sampling and metrics computation	MMNL performs many tasks relating to manageability, including session history capture and metrics computation.	Database instances, Oracle ASM instances
MMON	Manageability Monitor Process	Performs or schedules many manageability tasks	MMON performs many tasks related to manageability, including taking Automatic Workload Repository snapshots and performing Automatic Database Diagnostic Monitor analysis.	Database instances, Oracle ASM instances
M <i>nnn</i>	Shared MMON Worker Process	Performs manageability tasks on behalf of MMON	The M <i>nnn</i> processes are a pool of worker processes that can be shared by multiple MZ <i>nn</i> processes. See the Long Description for MZ <i>nn</i> in this table for more information about the MZ <i>nn</i> processes.	Database instances, Oracle ASM instances
MRP0	Managed Standby Recovery Process	Coordinates the application of redo on a physical standby database	MRP0 is spawned at the start of redo apply on a physical standby database. This process handles the extraction of redo and coordinates the application of that redo on a physical standby database.	Database instances, Data Guard
			See Also: Oracle Data Guard Concepts and Administration	
MSnn	LogMiner Worker Process	Reads redo log files and translates and assembles into transactions	Multiple MS nn processes can exists, where n is 0-9 or a-Z. A minimum of three MS nn processes work as a group to provide transactions to a LogMiner client, for example, a logical standby database or a database capture. There may be more than one such group, for example, multiple capture processes configured for either local or downstream capture in a database.	Database instances, Logical Standby, XStream Outbound servers, Oracle GoldenGate



Table F-1 (Cont.) Background Processes

Name	Expanded Name	Short Description	Long Description	External Properties
MZnn	Dedicated MMON Worker Process	Performs manageability tasks on behalf of MMON	MZnn is a dedicated process for a single MMON worker action. It performs manageability tasks dispatched by MMON, which include taking Automatic Workload Repository snapshots and performing Automatic Database Diagnostic Monitor analysis.	Database instances, Oracle ASM instances
Nnnn	Connection Broker Process	Monitors idle connections and hands off active connections in Database Resident Connection Pooling	In Database Resident Connection Pooling, clients connect to a connection broker process. When a connection becomes active, the connection broker hands off the connection to a compatible pooled server process. The pooled server process performs network communication directly on the client connection and processes requests until the client releases the server. After being released, the connection is returned to the broker for monitoring, leaving the server free to handle other clients. See Also: Oracle Database Concepts	Database instances, Database Resident Connection Pooling
NFS <i>n</i>	Direct NFS Dispatcher IO Worker Process	Performs direct NFS I/O for database processes	The dispatcher worker processes enable scaling of Direct NFS connections to a clustered NAS storage. These dedicated set of workers will be used to perform Direct NFS I/Os on behalf of database processes. The dispatcher processes are enabled by the ENABLE_DNFS_DISPATCHER initialization parameter. NFSn is spawned only if Direct NFS library is enabled for I/O to NFS servers. The number of worker processes spawned is based on the CPU_COUNT value.	Database instances
NICO:-	Nationals Common	Towards and the second	See Also: "ENABLE_DNFS_DISPATCHER"	Databasa
NSS <i>n</i>	Network Server SYNC Process	Transfers redo from current online redo logs to remote standby destinations configured for SYNC transport	NSSn can run as multiple processes, where n is 1-9 or A. See Also: Oracle Data Guard Concepts and Administration	Database instances, Data Guard
NSV <i>n</i>	Data Guard Broker NetSlave Process		NSVn is created when a Data Guard broker configuration is enabled. There can be as many $NSVn$ processes (where n is 0- 9 and A-U) created as there are databases in the Data Guard broker configuration.	Database instances, Data Guard
OCFn	ASM CF Connection Pool Process	Maintains a connection to the Oracle ASM instance for metadata operations		Database instances, Oracle ASM instances
OFSD	Oracle File Server Background Process	Serves file system requests submitted to an Oracle instance	This background process listens for new file system requests, both management (like mount, unmount, and export) and I/O requests, and executes them using Oracle threads.	Database instances, Oracle RAC
OF <i>nn</i>	Oracle File Server Background Process Thread	Serves file system requests submitted to an Oracle instance	This is a thread for the OFSD background process This background process thread is available only on Linux systems.	Database instances, Oracle RAC



Table F-1 (Cont.) Background Processes

Name	Expanded Name	Short Description	Long Description	External Properties
Onnn	ASM Connection Pool Process	Maintains a connection to the Oracle ASM instance for metadata operations	Onnn worker processes are spawned on demand. These processes communicate with the Oracle ASM instance.	Database instances, Oracle ASM instances
PING	Interconnect Latency Measurement Process	Assesses latencies associated with communications for each pair of cluster instances	Every few seconds, the process in one instance sends messages to each instance. The message is received by PING on the target instance. The time for the round trip is measured and collected.	Database instances, Oracle ASM instances, Oracle RAC
PMAN	Process Manager	Manages several background processes including shared servers, pooled servers, and job queue processes	 PMAN monitors, spawns, and stops the following as needed: dispatcher and shared server processes connection broker and pooled server processes for database resident connection pools job queue processes restartable background processes 	Database instances, Oracle ASM instances, Oracle ASM Proxy instances
PMON	Process Monitor	Scans for terminated processes and coordinates cleanup	PMON periodically scans all processes to find any that have terminated in a nonstandard way. PMON is then responsible for coordinating cleanup performed by the CLMN process and the CL <i>nn</i> workers. See Also: Oracle Database Concepts and Oracle Database Net Services Administrator's Guide	Database instances, Oracle ASM instances, Oracle ASM Proxy instances
P <i>nnn</i>	Parallel Query Worker Process	Perform parallel execution of a SQL statement (query, DML, or DDL)	Parallel Query has two components: a foreground process that acts as query coordinator and a set of parallel workers (Pnnn) that are background processes. These background processes are spawned or reused during the start of a parallel statement. They receive and perform units of work sent from the query coordinator.	Database instances, Oracle ASM instances
			The maximum number of P <i>nnn</i> processes is controlled by the initialization parameter PARALLEL_MAX_SERVERS. Worker processes are numbered from 0 to the PARALLEL_MAX_SERVERS setting. If the query is a GV\$ query, then these background processes are numbered backward, starting from PPA7.	
PR <i>nn</i>	Parallel Recovery Process	Performs tasks assigned by the coordinator process performing parallel recovery	PR <i>nn</i> serves as a worker process for the coordinator process performing parallel media recovery and carries out tasks assigned by the coordinator. The default number of these processes is based on number of CPUs.	Database instances
PSP0	Process Spawner Process	Spawns Oracle background processes after initial instance startup		Database instances, Oracle ASM instances



Table F-1 (Cont.) Background Processes

Name	Expanded Name	Short Description	Long Description	External Properties
PXMN	Parallel Execution Monitor	Spawns parallel server processes on local instances in an Oracle RAC environment for Query Coordinator in remote instances.		Database instances
QMNC	Non-sharded queue primary process	Monitors AQ	QMNC is the non-sharded queue primary process responsible for facilitating various background activities required by AQ: time management of messages, management of nonpersistent queues, cleanup of resources, and so on. QMNC dynamically spawns Qnnn processes as needed for performing these tasks.	Database instances Advanced Queueing
			Note that if the AQ_TM_PROCESSES initialization parameter is set to 0, this process will not start. The database writes the following message to the alert log: WARNING: AQ_TM_PROCESSES is set to 0. System might be adversely affected.	
QM <i>nn</i>	AQ Primary Class Process	Per instance per AQ Primary Class Process	Each of this type of process represents a single class of work item such as AQ notification, queue monitors, and cross process.	Database instances Advanced Queueing
Qnnn	AQ Server Class Process	Per AQ Primary Class server process	Each server class process acts on behalf of an AQ primary class process. This relationship is maintained until the primary requires services of a particular service process. Once released, the server class processes are moved to a free server pool.	Database instances Advanced Queueing
R <i>nnn</i>	ASM Block Remap Worker Process	Remaps a block with a read error	A database instance reading from an Oracle ASM disk group can encounter an error during a read. If possible, Oracle ASM asynchronously schedules a R <i>nnn</i> worker process to remap this bad block from a mirror copy.	Oracle ASM instances
RBAL	ASM Rebalance Primary Process	Coordinates rebalance activity	In an Oracle ASM instance, it coordinates rebalance activity for disk groups. In a database instance, it manages Oracle ASM disk groups.	Database instances, Oracle ASM instances
RCBG	Result Cache Background Process	Handles result cache messages	This process is used for handling invalidation and other messages generated by server processes attached to other instances in Oracle RAC.	Database instances, Oracle RAC
RECO	Recoverer Process	Resolves distributed transactions that are pending because of a network or system failure in a distributed database	RECO uses the information in the pending transaction table to finalize the status of in-doubt transactions. At timed intervals, the local RECO attempts to connect to remote databases and automatically complete the commit or rollback of the local portion of any pending distributed transactions. All transactions automatically resolved by RECO are removed from the pending transaction table.	Database instances
			See Also: Oracle Database Concepts and Oracle Database Net Services Administrator's Guide	



Table F-1 (Cont.) Background Processes

Name	Expanded Name	Short Description	Long Description	External Properties
RLnn	ResetLogs Process	Clear online redo logs when performing open resetlogs and	RLnn processes are spawned to clear online redo logs. These workers are terminated after the online redo logs are cleared, and the session does not persist.	Database instances
		converting to physical standby	Possible processes are RL00-RL31.	
RM	RAT Masking Worker Process	Extracts and masks bind values from workloads like SQL tuning sets and DB Replay capture files	This background process is used with Data Masking and Real Application Testing.	Database instances
RMON	Rolling Migration Monitor Process	Manages the rolling migration procedure for an Oracle ASM cluster	The RMON process is spawned on demand to run the protocol for transitioning an ASM cluster in and out of rolling migration mode.	Oracle ASM instance, Oracle RAC
RMS <i>n</i>	Oracle RAC Management Process	Performs manageability tasks for Oracle RAC	RMS <i>n</i> performs a variety of tasks, including creating resources related to Oracle RAC when new instances are added to a cluster.	Database instances, Oracle RAC
			See Also: Oracle Real Application Clusters Administration and Deployment Guide	
RP <i>nn</i>	Capture Processing Worker Process	Processes a set of workload capture files	RPnn are worker processes spawned by calling DBMS_WORKLOAD_REPLAY.PROCESS_CAPTURE (captur e_dir,parallel_level). Each worker process is assigned a set of workload capture files to process.	Database instances
			Worker processes execute in parallel without needing to communicate with each other. After each process is finished processing its assigned files, it exits and informs its parent process.	
			The number of worker processes is controlled by the parallel_level parameter of DBMS_WORKLOAD_REPLAY.PROCESS_CAPTURE. By default, parallel_level is null. Then, the number of worker processes is computed as follows:	
			SELECT VALUE FROM V\$PARAMETER WHERE NAME='cpu_count';	
			When parallel_level is 1, no worker processes are spawned.	
RPOP	Instant Recovery Repopulation Daemon	Responsible for recreating and/or repopulating data files from snapshot files and backup files	The RPOP process is responsible for re-creating and repopulating data files from snapshots files. It works with the instant recovery feature to ensure immediate data file access. The local instance has immediate access to the remote snapshot file's data, while repopulation of the recovered primary data files happens concurrently. Any changes in the data are managed between the instance's DBW processes and RPOP to ensure the latest copy of the data is returned to the user.	Database instances



Table F-1 (Cont.) Background Processes

Name	Expanded Name	Short Description	Long Description	External Properties
RSnn	Global Cache Service Remaster Process	Performs remastering for cluster reconfiguration and dynamic remastering	Each RS <i>nn</i> process is a worker process for LMS <i>n</i> to handle remastering work. They are also helper processes for LMS to handle non-critical work from global cache service.	Database instances, Oracle RAC
			The RS <i>nn</i> processes were named RMV <i>n</i> in Oracle Database 12c and earlier releases.	
RSM0	Data Guard Broker Worker Process	Performs monitoring management tasks related to Data Guard on behalf of DMON	The process is created when a Data Guard broker configuration is enabled.	Database instances, Data Guard
RSMN	Remote Worker Monitor Process	Manages background worker process creation and communication on remote instances in Oracle RAC	This background process manages the creation of worker processes and the communication with their coordinators and peers. These background worker processes perform tasks on behalf of a coordinating process running in another cluster instance.	Database instances, Oracle RAC
RVWR	Recovery Writer Process	Writes flashback data to the flashback logs in the fast recovery area	RVWR writes flashback data from the flashback buffer in the SGA to the flashback logs. RVWR also creates flashback logs and performs some tasks for flashback log automatic management.	Database instances, Flashback Database
Snnn	Shared Server Process	Handles client requests in the shared server architecture	In the shared server architecture, clients connect to a dispatcher process, which creates a virtual circuit for each connection. When the client sends data to the server, the dispatcher receives the data into the virtual circuit and places the active circuit on the common queue to be picked up by an idle shared server. The shared server then reads the data from the virtual circuit and performs the database work necessary to complete the request. When the shared server must send data to the client, the server writes the data back into the virtual circuit and the dispatcher sends the data to the client. After the shared server completes the client request, the server releases the virtual circuit back to the dispatcher and is free to handle other clients.	Database instances, shared servers
			Several initialization parameters relate to shared servers. The principal parameters are: DISPATCHERS, SHARED_SERVERS, MAX_SHARED_SERVERS, LOCAL_LISTENER, REMOTE_LISTENER.	
			See Also: Oracle Database Concepts	
SAnn	SGA Allocator	Allocates SGA	A small fraction of SGA is allocated during instance startup. The SA <i>nn</i> process allocates the rest of SGA in small chunks. The process exits upon completion of SGA allocation.	Database instances
			Possible processes are SA00-SAzz.	
SCCn	ASM Disk Scrubbing	Performs Oracle ASM disk scrubbing check	SCC <i>n</i> acts as a worker process for SCRB and performs the checking operations.	Oracle ASM instances



Table F-1 (Cont.) Background Processes

Name	Expanded Name	Short Description	Long Description	External Properties
SCM0	DLM Statistics Collection and Management Worker	Collects and manages statistics related to global enqueue service (GES) and global cache service (GCS)	The DLM Statistics Collection and Management worker (SCM0) is responsible for collecting and managing the statistics related to global enqueue service (GES) and global cache service (GCS). This worker exists only if DLM statistics collection is enabled.	Database instances
SCMN	Statistics Collection and Management	Main thread for a multithreaded process in a threaded Oracle RAC architecture	All other threads are spawned within the processes through SCMN, based on the requests in the instance. SCMN is an idle main thread, which waits for any requests, especially spawn threads, and takes care of them, along with performing periodic maintenance operations.	Oracle RAC
SCRB	ASM Disk Scrubbing Primary Process	Coordinates Oracle ASM disk scrubbing operations	SCRB runs in an Oracle ASM instance and coordinates Oracle ASM disk scrubbing operations.	Oracle ASM instances
SCR <i>n</i>	ASM Disk Scrubbing Worker Repair Process	Performs Oracle ASM disk scrubbing repair operation	SCR <i>n</i> acts as a worker process for SCRB and performs the repairing operations. Possible processes are SCR0-SCR9.	Oracle ASM instances
SCVn	ASM Disk Scrubbing Worker Verify Process	Performs Oracle ASM disk scrubbing verify operation	SCV <i>n</i> acts as a worker process for SCRB and performs the verifying operations. Possible processes are SCV0-SCV9.	Oracle ASM instances
SMCO	Space Management Coordinator Process	Coordinates the execution of various space management tasks	This background process coordinates the execution of various space management tasks, including proactive space allocation and space reclamation. SMCO dynamically spawns worker processes (Wnnn) to implement these tasks.	Database instances
SMON	System Monitor Process	Performs critical tasks such as instance recovery and terminated transaction recovery, and maintenance tasks such as temporary space reclamation, data dictionary cleanup, and undo tablespace management	 SMON performs many database maintenance tasks, including the following: Reclaims space used by orphaned temporary segments Maintains the undo tablespace by onlining, offlining, and shrinking the undo segments based on undo space usage statistics Cleans up the data dictionary when it is in a transient and inconsistent state Maintains the SCN to time mapping table used to support Oracle Flashback features In an Oracle RAC database, the SMON process of one instance can perform instance recovery for other instances that have failed. SMON is resilient to internal and external errors raised during background activities. See Also: Oracle Database Concepts 	Database instances
SP	SPA Exec Worker	Analyzes single SQL statements sent from SQL Performance Analyzer (SPA)	Executions of SPA tasks created from a SQL tuning set use this worker to analyze the SQL statements of the SQL tuning set concurrently.	Database instances



Table F-1 (Cont.) Background Processes

Name	Expanded Name	Short Description	Long Description	External Properties
SVCB	Service Background Process	Provides database service run-time load balancing and topology information to clients.	Every 30 seconds the process processes and publishes run-time load-balancing information and keeps the topology information current. This process is started only if Oracle Real Application Clusters (Oracle RAC) is enabled.	Oracle RAC
TEMn	ASM disk Test Error Emulation Process	Emulates I/O errors on Oracle ASM disks through named events	I/O errors can be emulated on Oracle ASM disk I/O through named events. The scope can be the process, instance, or even cluster. Optionally, a set of AUs can be chosen for error emulation.	Oracle ASM instances
TT <i>nn</i>	Redo Transport Worker Process	Ships redo from current online and standby redo logs to remote standby destinations configured for ASYNC transport	TT <i>nn</i> can run as multiple processes, where <i>nn</i> is 00 to ZZ. See Also: Oracle Data Guard Concepts and Administration	Database instances, Data Guard
U <i>nnn</i>	Container process for threads	Host processes where database processes execute as threads.	Unnn processes are database container operating system processes where database backgrounds processes like SMON, CJQ0, and database foreground processes run. The V\$PROCESS view lists database processes running in these container processes. These container processes are created only when the THREADED_EXECUTION initialization parameter is set to TRUE. The number of these processes vary depending on the active database processes. On a host with multiple NUMA nodes, there will be at least one Unnn process per NUMA node. These processes are irrecoverable processes; if any of them is terminated, it will result in instance termination.	Database instances
			them is terminated, it will result in instance termination. These processes exit when the instance is shut down or terminated.	
VBGn	Volume Background Process	Communicates between the Oracle ASM instance and the operating system	VBG <i>n</i> handles messages originating from the volume driver in the operating system and sends them to the Oracle ASM instance. VBG <i>n</i> can run as multiple processes, where <i>n</i> is 0-9.	Oracle ASM instances, Oracle ASM Proxy
		volume driver	VBG// carrier as multiple processes, where // is 0-9.	instances
VDBG	Volume Driver Process	Forwards Oracle ASM requests to perform various volume-related tasks	VDBG handles requests to lock or unlock an extent for rebalancing, volume resize, disk offline, add or drop a disk, force and dismount disk group to the Dynamic Volume Manager driver.	Oracle ASM instances, Oracle ASM Proxy instances
VInn	Volume I/O	Route ADVM volume I/O for ASM instances on compute nodes within an Exadata	These processes handle requests for I/Os targeted at storage not locally accessible. They are used for Exadata targeted storage as well. These background processes only start when an ASM Volume is created and set up to be used. One process will start for each NUMA node on target machines. Under normal operation on non-Exadata hardware and on Exadata hardware that is not utilizing ASM volumes, these processes will not be started. There can be up to 32 VI processes, and they are named sequentially from VI00 to VI31.	Oracle ASM Proxy instances



Table F-1 (Cont.) Background Processes

Name	Expanded Name	Short Description	Long Description	External Properties
VKRM	Virtual Scheduler for Resource Manager Process	Serves as centralized scheduler for Resource Manager activity	VKRM manages the CPU scheduling for all managed Oracle processes. The process schedules managed processes in accordance with an active resource plan.	Database instances
VKTM	Virtual Keeper of Time Process	Provides a wall clock time and reference time for time interval measurements	VKTM acts as a time publisher for an Oracle instance. VKTM publishes two sets of time: a wall clock time using a seconds interval and a higher resolution time (which is not wall clock time) for interval measurements. The VKTM timer service centralizes time tracking and offloads multiple timer calls from other clients.	Database instances, Oracle ASM instances
VMB0	Volume Membership Process	Maintains cluster membership on behalf of the Oracle ASM volume driver	This process membership in the cluster as an I/O-capable client on behalf of the Oracle ASM volume driver.	Oracle ASM instances, Oracle ASM Proxy instances
VOSD	Virtual Operating System Daemon	Executes time-bound Oracle database service actions	This process is spawned on instance startup and is responsible for executing system service actions critical for the database.	Database instances, Oracle ASM instances, Oracle RAC
VUBG	Volume drive Umbilicus Background	Relays messages between Oracle ASM instance and Oracle ASM Proxy instance that is used by ADVM (for ACFS)		Oracle ASM instances, Oracle ASM Proxy instances



Table F-1 (Cont.) Background Processes

Name	Expanded Name	Short Description	Long Description	External Properties
Wnnn	Space Management Worker Process	Performs various background space management tasks,	W <i>nnn</i> worker processes perform work on behalf of Space Management and on behalf of the Oracle Database In-Memory option.	Database instances
		including proactive space allocation and space reclamation	• When performing work on behalf of Space Management, Wnnn processes are worker processes dynamically spawned by SMCO to perform space management tasks in the background. These tasks include preallocating space into locally managed tablespace and SecureFiles segments based on space usage growth analysis, and reclaiming space from dropped segments. After being started, the worker acts as an autonomous agent. After it finishes task execution, it automatically picks up another task from the queue. The process terminates itself after being idle for a long time.	
			 When performing work on behalf of the Oracle Database In-Memory option, Wnnn processes execute tasks for population or repopulation of objects that are enabled for the In-Memory column store (IM columns store), and tasks that drop in- memory segments when an object is disabled for the IM columns store. 	
			For in-memory population and repopulation, both the IMCO background process and foreground processes will utilize Wnnn workers. Wnnn processes are utilized by the IMCO background process for prepopulation of in-memory enabled objects with priority LOW/MEDIUM/HIGH/CRITICAL, and for repopulation of in-memory objects. In-memory populate and repopulate tasks running on Wnnn workers are also initiated from foreground processes in response to queries and DMLs that reference in-memory enabled objects.	
XDMG	Exadata Automation Manager	Initiates automation tasks involved in managing Exadata storage	XDMG monitors all configured Exadata cells for state changes, such as a bad disk getting replaced, and performs the required tasks for such events. Its primary tasks are to watch for when inaccessible disks and cells become accessible again, and to initiate the ASM ONLINE operation. The ONLINE operation is handled by XDWK.	Oracle ASM instances, Exadata
XDWK	Exadata Automation Manager	Performs automation tasks requested by XDMG	XDWK gets started when asynchronous actions such as ONLINE, DROP, and ADD an Oracle ASM disk are requested by XDMG. After a 5 minute period of inactivity, this process will shut itself down.	Oracle ASM instances, Exadata
Xnnn	•	Performs Oracle ASM post-rebalance activities	This process expels dropped disks after an Oracle ASM rebalance.	Oracle ASM instances



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