

DOCUMENTATION

BDNA Discover™ 7.7.2 for Oracle Licensing

Data Extraction Guide

October 31, 2016

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Overview

This document details the steps required to complete a BDNA Discover for Oracle Licensing™ scan for the purpose of collecting Oracle License Management Services (LMS) discovery data. A BDNA Discover Oracle Licensing scan discovers all of the data necessary to satisfy an Oracle LMS data request, in a file format acceptable to the Oracle LMS team. The steps needed to complete a BDNA Discover for Oracle Licensing™ scan are as follows:

- Installing the Oracle LMS license key.
- BDNA Discover Level 1, Level 2, and Oracle Level 3 scanning.
- Oracle LMS data export.

Prerequisites

This document assumes that you are already familiar with BDNA Discover scanning concepts. The process discussed in this document requires a working BDNA Discover, version 7.7.2 or later, and a Collection Store with the latest Enterprise Sequence installed. For more information on installation and scan concepts, refer to the BDNA Discover 7.7.2 Installation Guide and the BDNA Discover 7.7.2 Release Notes.

Installing the Oracle LMS License Key

Oracle LMS discovery is integrated with the Enterprise Sequence as a separate licensable feature. You must apply the Oracle LMS license in order to successfully discover Oracle LMS at Level 3.

Note: The LMS license key must be installed on both the Collection Store and the FactBase servers. You **MUST** have all components started at the time of loading the LMS license key.

To Apply the Oracle LMS License

Execute the following script in order to apply the Oracle LMS license:

```
$BDNA_HOME/conf/bcp_store/EnterpriseSequence/bin/install_oracle_lms_license.sh
```

The script takes one argument: the license key. For example:

```
sh install_oracle_lms_license.sh -k <license_key>
```

Once you successfully load the key, you can perform an Oracle LMS scan using the same process utilized for an Oracle Level 3 scan. When a valid Oracle LMS license is present, Oracle LMS discovery automatically launches at the same time as your usual Oracle Level 3 discovery.

Note: You must re-apply the license every time you run the `initdb` script. There is no limitation as to how late the license can be applied after scanning. For example, the license can be applied after a Level 3 scan has been scheduled or completed, or reports have been built. Oracle LMS collection continues immediately after the license key is applied. When the new collection is complete, you must schedule the rebuilding of snapshots and reports to view the Oracle LMS reports.

Provisioning the User Account

Provision the Oracle user account by running the scripts located here: `$BDNA_HOME/scripts/Administrator/Oracle`. This directory contains a read me file and the Level 3 Oracle LMS scripts:

Note: The read me file provides a detailed description of each script and its usage.

- `README-Instructions.txt`
- `Helper_YesOracleLMS_Oracle12c_CDB.sql_lib`
- `Helper_YesOracleLMS_Oracle12c_nonCDB.sql_lib`
- `Helper_YesOracleLMS_Oracle11g.sql_lib`
- `Helper_YesOracleLMS_Oracle9i.sql_lib`
- `Helper_YesOracleLMS_Oracle10g.sql_lib`
- `Create_Credential_NoOracleLMS.sql`
- `Create_Credential_YesOracleLMS.sql`

Requirements for a Successful Oracle Level 3 LMS Scan

- The Oracle LMS user must have been created on the target instance. (This is not necessary if you use OS Authentication.)
- To complete an Oracle Level 3 LMS scan, all target hosts must first successfully complete a Level 1 and Level 2 scan. For detailed information about running a Level 1 and Level 2 scan, refer to the *BDNA Discover 7.7.2 Administrator Guide*.
- For successful Level 2 Oracle discovery on Windows servers, the provided Operating System credential must be a local or domain administrator. Additionally:
- TFTP must be installed and available to the specified Operating System user.
- For UNIX Level 2 and Level 3 discovery, the Oracle home directory must be accessible to the specified OS user and `sqlplus` must be executable by the scan user.
- The Oracle LMS user must have been created on the target instance.
- For UNIX hosts, Oracle cannot be installed on an AFS or NFS mounted share for successful Oracle discovery. If Oracle is installed under an AFS or NFS share the Oracle installation will not be discovered during Level 2 discovery.

- Traditional Oracle Level 3 discovery and Level 3 Oracle LMS discovery use the same Credential type and Scan Task type, as detailed in the BDNA Discover 7.7.0 Administrator Guide under the Level 3 scanning section.

Verifying Oracle Level 3 LMS Tasks

In order to verify whether the Oracle Level 3 LMS tasks have been executed on a given host, the following list of Collection Tasks may be viewed under the Scan Administration Task Summary reports. For instructions related to accessing the Task Summary report under Scan Administration, refer to the BDNA Discover 7.7.2 Administrator Guide. The list divides the Collection Tasks by Operating System type first, and then by either non-LMS or LMS task type.

Note: Non-LMS collection tasks are executed as part of a traditional Level 3 Oracle discovery. These collection tasks may report as failed when executing an Oracle Licensing scan. Failures in the Non-LMS collection tasks may be ignored.

UNIX Collection Tasks

Non-LMS Oracle Level 3 Collection Tasks

UNIXOracleInstanceStatic
 UNIXOracleInstanceDynamic
 UNIXOracleInstanceRealTime

LMS Oracle Level 3 Collection Tasks

UNIXOracleInstanceDBOptions
 UNIXOracleInstanceLMSOptions
 UNIXOracleInstanceLMSOptions2
 UNIXOracleInstanceLMSOptions3
 UNIXOracleInstanceLMSOptions4
 UNIXOracleInstanceLMSOptions5
 UNIXOracleInstanceLMSOptions6
 UNIXOracleInstanceLMSOptions7
 UNIXOracleInstanceLMSRawDataDetail
 UNIXOracleInstanceLMSRawDataOptions
 UNIXOracleInstanceLMSRawDataDBAUsers
 UNIXOracleInstanceLMSRawDataVLicense
 UNIXOracleInstanceLMSRawDataVSession

Windows Collection Tasks

Non-LMS Oracle Level 3 Collection Tasks

WindowsOracleInstanceStatic
WindowsOracleInstanceDynamic
WindowsOracleInstanceRealTime

LMS Oracle Level 3 Collection Tasks

WindowsOracleInstanceLMSRawDataOpt4
WindowsOracleInstanceLMSRawDataOpt5
WindowsOracleInstanceLMSRawDataOpt6
WindowsOracleInstanceDBOptions
WindowsOracleInstanceLMSOptions
WindowsOracleInstanceLMSOptions2
WindowsOracleInstanceLMSOptions3
WindowsOracleInstanceLMSOptions4
WindowsOracleInstanceLMSOptions5
WindowsOracleInstanceLMSOptions6
WindowsOracleInstanceLMSOptions7
WindowsOracleInstanceLMSRawDataOpt1a
WindowsOracleInstanceLMSRawDataOpt1b
WindowsOracleInstanceLMSRawDataOpt1c
WindowsOracleInstanceLMSRawDataOpt2
WindowsOracleInstanceLMSRawDataOpt3
WindowsOracleInstanceLMSRawDataDetails
WindowsOracleInstanceLMSConcurrencyOptions

Generating Oracle LMS 3PTV Output

After completing all Oracle Level 3 Collection Tasks you can use the following steps to generate the Oracle LMS 3PTV output in the format specified by Oracle LMS.

Note: These steps must be completed against the Collection Store schema. Oracle LMS 3PTV output generation is not currently supported against a FactBase schema.

In addition to the steps used to export the results, after refresh analytics has been completed in step 1, the LMS data may be viewed directly using the Analytics application. All Oracle LMS related reports may be found under the Analytics application in a folder named 'Oracle Licensing'.

To generate Oracle LMS 3PTV Output from a Collection Store:

The following steps must be completed while logged on to the primary BDNA Discover Linux component as the user bdna. The export will target the schema currently connected to the Collection Store instance, as specified in the file

\$BDNA_HOME/conf/connection.properties. If export from an instance other than the currently connected instance is desired, update the connection.properties in order to specify a different target schema.

- 1.Connect to the Collection Store and run refresh analytics using the BDNA shell
- 2.Execute the following shell script to generate the Oracle LMS 3PTV output:

```
$BDNA_HOME/conf/bcp_store/EnterpriseSequence/bin/ExtractLMS3PTVOutput.sh
```

This script takes one optional argument that may be used to specify a target output directory. If no directory argument is passed to the script the current directory will be the target for the output files. Example:

```
[bdna@server tmp]$ cd $BDNA_HOME/conf/bcp_store/EnterpriseSequence/bin/
```

```
[bdna@server bin]$ sh ./ExtractLMS3PTVOutput.sh -f /tmp
```

```
Usage: ExtractLMS3PTVOutput.sh [-f target_folder]
```

where:

[-f target_folder] is the directory path where the LMS 3PTV output files get saved. (optional)

```
[Thu Oct 6 10:38:08 PDT 2011] Generating LMS 3PTV Output files LMSTABLES.DMP and
LMS_OVERVIEW.CSV. [Thu Oct 6 10:38:09 PDT 2011] exporting tables onto lmsTables.dmp
file
```

```
Export: Release 10.2.0.4.0 - Production on Thu Oct 6 10:38:09 2011 Copyright (c) 1982,
2007, Oracle. All rights reserved.
```

```
Connected to: Oracle Database 10g Enterprise Edition Release 10.2.0.4.0 - Production
With the Partitioning, OLAP, Data Mining and Real Application Testing options
```

```
Export done in WE8ISO8859P1 character set and AL16UTF16 NCHAR character set server uses
AL32UTF8 character set (possible charset conversion)
```

```
About to export specified tables via Conventional Path ...
```

```
. . exporting table LMS_DETAIL 2 rows exported
. . exporting table LMS_OPTIONS 1491 rows exported
. . exporting table LMS_DBA_USERS 56 rows exported
. . exporting table LMS_V$LICENSE 2 rows exported
. . exporting table LMS_V$SESSION 58 rows exported
```

```
Export terminated successfully without warnings.
```

```
[bdna@server bin]$ cd /tmp
```

```
[bdna@server tmp]$ ls -lrt
```

```
-rw-rw-r-- 1 bdna bdna 794 Oct 6 10:38 lmsTables20111006.log
```

```
-rw-rw-r-- 1 bdna bdna 278528 Oct 6 10:38 lmsTables20111006.dmp
```

```
-rw-rw-r-- 1 bdna bdna 3004 Oct 6 10:38 lms_overview_20111006.csv
```

To generate Oracle LMS 3PTV Output from a FactBase:

For FactBase, the 'ExtractLMS3PTVOutput.sh' generates the 3PTV output by inventory name.

The format of the script command:

```
ExtractLMS3PTVOutput.sh [-f target_folder] [-i inventory_name]
```

where:

[-f target_folder] is the folder to copy the output files. (optional)

[-i inventory_name] is the Inventory to be exported. (optional)

Example command:

```
sh ExtractLMS3PTVOutput.sh -f /tmp -i Inventory_Recent
```

Oracle LMS 3PTV Output Requirements

The Oracle Level 3 LMS scan discovers all of the data necessary to satisfy an Oracle LMS data request, in a file format acceptable to the Oracle LMS team.

Oracle LMS 3PTV output requirements stipulate that the exported results contain the following information:

- Overview Sheet (Part 1)—Oracle LMS has defined explicit data fields that must be collected and reported. This data has to be presented as a file in CSV-Format. (Comma Separated Values).
- Raw Data (Part 2)—The tables for the respective data points in the raw data set are LMS_DETAIL, LMS_OPTIONS, and LMS_DBA_USERS.
- Concurrent Session Information (Part 3)—The data set for Concurrency is gathered in the tables LMS_V\$LICENSE and LMS_V\$SESSION

The output files generated by the ExtractLMS3PTVOutput.sh script are named as follows and match to the parts listed:

- lms_overview_YYYYMMDD.csv—Part 1 Data
- lmsTablesYYYYMMDD.dmp—Part 2 and Part 3 Data
- lmsTablesYYYYMMDD.log—Export log: This file is not required by Oracle LMS and may be discarded after export is complete.

Note: The string YYYYMMDD is replaced with the current numeric year, month, and day when the script is executed.

Viewing the Oracle LMS Reports

The Oracle LMS reports are formatted according to LMS 3PTV output requirements.

A new folder, Oracle Licensing, is added to the Analytics UI. The Oracle Licensing folder contains the reports related to LMS discovery.

Note: You can access the folder only when a valid LMS license key is installed.

Oracle LMS Reports

- Oracle DB Instance Options Summary — Summary of all DB Options discovered.
- [LMS Report #1] Overview—BDNA report view of all columns that Oracle LMS requires to be collected and can be presented as a CSV-File.
- [LMS Report #2] LMS_DETAIL—BDNA report view of table LMS_DETAIL.
- [LMS Report #3] LMS_OPTIONS—BDNA report view of table LMS_OPTIONS.
- [LMS Report #4] LMS_DBA_USERS—BDNA report view of table LMS_DBA_USERS.
- [LMS Report #5] LMS_V\$LICENSE—BDNA report view of table LMS_V\$LICENSE.
- [LMS Report #6] LMS_V\$SESSION—BDNA report view of table LMS_V\$SESSION.

Data Fields

Oracle License Management Services (LMS) has defined specific data fields to be collected by a third-party tool when measuring Oracle software usage. The collected data must be displayed in an overview format that provides the customer with a consolidated view of the Oracle software deployed. It must also provide hardware information for servers where the software is installed and/or used. This file must be provided in CSV format (Comma-separated Values).

As described in Table 1, “Data Fields to be Collected for the Overview Sheet,” each numbered field represents the data point that must be collected by the tool. The table also provides a description of each field, detailing what is required for the Overview Sheet. The Data Source columns indicate whether the data is to be captured by the measurement tool or provided by the customer.

Table 1: Data Fields Collected for the Overview Sheet

Name	Description	Data Source Tool	Data Source Customer
Group	Grouping as defined by the customer (i.e. regions, departments, etc.).		X
Aggregation Level	Different levels of aggregations used to calculate a value, i.e. database level, sever level, network level, etc.		X
Oracle CSI	Oracle Customer Support identifier (CSI) used to interact with Oracle Support Services. Usually found on Oracle Invoice or with support renewals.		X
Oracle Product Category	Measured products e.g. Database, Application Server, etc.	X	
Physical Machine Id / Host Name	Name or the physical server - also known as host-name	X	
Virtual Machine Id / Host Name	Name or the virtual server - that is running within a physical server	X (optional)	
Database Edition	Edition of the Database e.g. Enterprise, Standard, Standard One, Express Edition	X	
Database Name	SID of the Oracle Database (can be cross-checked with TNSNAMES.ORA)	X	
Version	Version of the Database installed on the physical/virtual server	X	

Table 1: Data Fields Collected for the Overview Sheet

Options Installed	Database Options or additional components to the database which require a license. Here the list of installed and activated Options should be listed using the shortcuts mentioned in Appendix 5. Please note that Management Packs might have slightly different names (from the measurement result) – depending on the version of the database.	X	
Options in use	Here only list the Database Options which are in use using the shortcuts mentioned in Table 2.	X	
Packs Granted	List of Management Packs where the Access has been granted (= activated) using the shortcuts mentioned in Table 2. Please note that Packs could have slightly different names (out of the measurement) – depending on the Version of the database.	X	
Packs Agreed	List of Management Packs using the shortcuts in Table 2 where the license hint has been “agreed” by the customer. The use of Packs requires additional Licenses for the respective Pack and is not included in the database license (= Pack in Use)	X	
Application Name	Name of the application running in conjunction with the Oracle product. Usually provided by the customer.		
Application Status (prod, test, dev, train...)	Status of the Application (e.g. productive, test environment, development, training, etc.)		
User Count (DBA Users)	Number of distinct database users defined (source: DBA_USERS.USERNAME). Default usernames should not be counted, as they are created during the installation of the products. - see Schemas to exclude in the appendix to this document when counting		

Table 1: Data Fields Collected for the Overview Sheet

User Count (Application)	If the DBA_USERS table contains generic Usernames/Schemas to connect to the application / database, the customer should provide the User Count at Application – Level. Usually this is where the user-administration happens.		
Server Manufacturer	Manufacturer of the physical Server. If Soft- or Hard partitioning is used the manufacturer could be LPAR, vPar, VMware, etc.		
Server Model	Model of the physical Server. If it is a virtual environment please mention the respective VM-solution here. #18 + 19 can then also be one single data-point		
Operating System	Operating System the database is running on. If it is a virtual environment – please list the Operating System of the VM.		
Sockets populated Physical	Number of (Processors) sockets being used / are populated on the physical server. Multi-chip-Modules (IBM) are treated as 1 Socket for each chip that can be added. This could also be interpreted as number of processors on the physical Server		
Total Physical Cores	Total number of processor-cores of the physical server	X	
Processor Identifier	Processor type identified by the physical server, e. g. Intel Pentium Core 2 duo, etc.		
Processor Speed	Processor Speed in MHz / GHz	X	
Socket Capacity Physical	Maximum number of (Processors) sockets (= socket-capacity) of the physical server. Multi-chip-Modules (IBM) are treated as 1 socket for each Chip that can be added. Usually this information is provided through a lookup-table and can't be gathered from the hardware.		
Total Logical Cores	Total number of cores assigned to the logical server	X	

Table 1: Data Fields Collected for the Overview Sheet

Partitioning Methods	<ul style="list-style-type: none"> • Dynamic System Domains (DSD) -- enabled by Dynamic • Reconfiguration (DR) Solaris 9 Resource Containers, Solaris 10 Containers • LPAR (adds DLPAR with AIX 5.2) Micro-Partitions • vPar, nPar , HP Process Resource Manager • Integrity Virtual Machine • Secure Resource Partitions Static Hard Partitioning Oracle VM • IX Workload Manager • Affinity Management • Oracle VM , VMware etc. <p>This is not a comprehensive list of all partitioning methods but can be used as a guide</p>	X	
Database Role	Primary, Standby, Failover (name, database_role - source: V\$database)	X	
Server Name in the Cluster	Usually this information is provided by the customer. Typical question would be: Are the servers clustered? If yes which servers make the cluster?		
Top Concurrency Timestamp	Timestamp when maximum number of concurrent sessions was captured. This only makes sense, if several measurements have been taken place and more than one timestamp exists. (source: v\$session)	X	
Sessions	Maximum number of concurrent sessions (captured at top concurrency timestamp). Sessions of the tool and SYS database users are not counted. (source: v\$session)	X	
Instance Sessions Highwater	Highest number of concurrent user sessions since the instance was started (source V\$LICENSE. SESSIONS_HIGHWATER)	X	
Install Date	Install date of the Oracle product (source v\$DATABASE)	X	
Measurement Comment	Additional comments out of the measurement or comments from the customer.		

Shortcuts for Database Options and Management Packs

The activation and use of database options should be listed in the overview sheet using the shortcuts shown below in “Shortcuts for Database Options and Management Packs.”

Bear in mind that the names of the respective database options in the price list may differ from the names in the measurement result. This occurs because the names sometimes vary in different database versions. If this is the case, it is indicated by an ‘*’ in the “comment” column.

Database-Options Names (Price List)	Shortcut	Comment
Enterprise Edition Options		
Active Data Guard	ADG	
Advanced Analytics	AA	
Advanced Compression	AC	
Advanced Security	AS	
Audit Vault (listed under “other” in the price list – not as an option)	AV	
Database Vault	DV	
In-Memory Database	IMD	
In-Memory Database Cache	IMDC	
Label Security	LS	
Multitenant		
OLAP	OL	
Partitioning (User)	P	
Real Application Clusters	RAC	
Real Application Testing	RAT	
Retail Data Model	RDM	
Spatial	SP	
Warehouse Builder Data Quality	WBDQ	
Warehouse Builder Enterprise ETL	WBEE	

Database Enterprise Management		
Cloud Management Pack	CMP	
Data Masking Pack	DDM	
Diagnostic Pack	DD	
Tuning Pack	DT	
Application Server Enterprise Management		

Diagnostics Pack for Oracle Middleware	ADP	*
Management Pack for Oracle Coherence	AMC	
Management Pack for Oracle GoldenGate	AMG	
Management Pack for WebLogic Server	AMW	
Management Pack Plus for SOA	AMP	
Business Intelligence Management		
Business Intelligence Management Pack	BIM	
Enterprise 2.0 Management		
Management Pack for WebCenter Suite	MWS	
Identity Management Enterprise Management		
Management Pack for Identity Management	MIM	
Other Infrastructure Management		
Configuration Management Pack for Applications	OCA	
Diagnostics Pack for Non-Oracle Middleware	ODM	
Management Connectors	OMC	
Oracle VM Management Pack	OVM	
Provisioning and Patch Automation Pack	OPP	
System Monitoring Plug-in for Hosts	OSH	
System Monitoring Plug-in for Network Devices	OSPN	
System Monitoring Plug-in for Non Oracle Databases	OSND	
System Monitoring Plug-in for Non Oracle Middleware	OSNM	
System Monitoring Plug-in for Storage	OSPS	

Service Management		
Service Level Management Pack	SLP	
Other – comes out of Measurement but is currently not listed in the Oracle Price list as of 01/2010. The reason for this is that the product is currently bundled into another product but was licensed separately		
Application Server Configuration Pack	ACP	
Content Database Suite	CDS	
Change Management Pack	DCM	
Configuration Management Pack	DCO	
Configuration Management Pack for Non-Oracle Systems	OCN	
Configuration Management Pack for Oracle Middleware	OCM	

Data Mining	DM	
Database Provisioning and Patch Automation Pack	DPP	
Data Profiling and Quality	DPQ	
Data Watch and Repair Connector	DWRC	
Linux Management Pack	OLM	
Provisioning Pack	PP	
Records Database	RDB	
Standalone Provisioning and Patch Automation Pack	OSP	
Total Recall	TR	

Option Queries Collected by BDNASERVER

09i.ODM_MINING_MODEL
 10g 10g_r2.V\$LICENSE
 10gv1.DM\$MODEL
 10gv1.DM\$OBJECT
 10gv2.DM\$P_MODEL
 11g+.DBA_MINING_MODELS
 11g.DM\$P_MODEL 11gr1
 >=9i_r2
 ALL_SDO_GEOM_METADATA
 ANALYTIC_WORKSPACES
 AVSYS_SCHEMA
 COLUMN_ENCRYPTION
 CONTENT_SCHEMA DBA_ADVISOR_TASKS
 DBA_CPU_USAGE_STATISTICS
 DBA_CUBES
 DBA_FLASHBACK_ARCHIVE
 DBA_FLASHBACK_ARCHIVE_TABLES
 DBA_SQLSET
 DBA_SQLSET_REFERENCES
 DVF_SCHEMA
 DVSYS.DBA_DV_REALM

DVSY\$SCHEMA
FEATURE_INFO
GRID_CONTROL+11g
GV\$IM_SEGMENTS
GV\$INSTANCE
INMEMORY_ENABLED_TABLES
LBAC\$POLY_COUNT
MGMT\$TARGET
MGMT_ADMIN_LICENSES
MGMT_INV_COMPONENT
MGMT_LICENSES
MGMT_LICENSE_CONFIRMATION
MGMT_TARGETS
MGMT_VERSIONS NULL
ODM_DOCUMENT ODM_RECORD
OLAPSYS.DBA\$OLAP_CUBES
OLAP_AWS_SEGMENTS
PACK_FEATURE_USAGE PACK_USAGE
PARTITIONED_SEGMENTS PARTITION_OBJ_RECYCLEBIN
REPOSITORY2
ROLE_SYS_PRIVS RUNNING_PROGRAMS
SECUREFILES_COMPRESSION_AND_DEDUPLICATION
SECUREFILES_ENCRYPTION
SQL_PROFILES SYS.REGISTRY\$HISTORY
TABLESPACE_ENCRYPTION TABLE_COMPRESSION
USER_ROLE_PRIVS
USER_SYS_PRIVS
V\$BLOCK_CHANGE_TRACKING
V\$CONTAINERS
V\$DATABASE