

Oracle® Enterprise Manager Ops Center

Certified Systems Matrix Guide

12c Release 2 (12.2.2.0.0)

E38526-05

December 2014

This guide lists the certified systems for Oracle Enterprise Manager Ops Center.

The following topics are covered in this document:

- [Base Operating Systems](#)
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Base Operating Systems

This section describes the supported operating systems for the Enterprise Controller and Proxy Controller.

Enterprise Controller Operating Systems

[Table 1, "Enterprise Controller Operating Systems"](#) lists the supported operating systems for the Enterprise Controller.

Table 1 Enterprise Controller Operating Systems

Certification Platform	Version	Minimum Update Level and Comments
Oracle Solaris	NA	NA
Oracle Solaris SPARC	10	9/10 through 1/13
Oracle Solaris SPARC	11	11.0 through 11.2 Oracle Solaris 11 Express is not supported.
Oracle Solaris SPARC Local Zone	10	9/10 through 1/13
Oracle Solaris SPARC Local Zone	11	11.0 through 11.2 Oracle Solaris 11 Express is not supported.

Table 1 (Cont.) Enterprise Controller Operating Systems

Certification Platform	Version	Minimum Update Level and Comments
OracleVM Server for SPARC	10	9/10 through 1/13
OracleVM Server for SPARC	11	11.0 through 11.2 Oracle Solaris 11 Express is not supported.
Oracle Solaris x86	10	9/10 through 1/13
Oracle Solaris x86	11	11.0 through 11.2 Oracle Solaris 11 Express is not supported.
Oracle Solaris x86 Local Zone	10	9/10 through 1/13
Oracle Solaris x86 Local Zone	11	11.0 through 11.2 Oracle Solaris 11 Express is not supported.
Oracle VM Server for x86	10	9/10 through 1/13
Oracle VM Server for x86	11	11.0 through 11.2 Oracle Solaris 11 Express is not supported.
Linux	NA	NA
Oracle Linux	5.5	Requires Oracle unbreakable Linux kernel
Oracle Linux	5.6	Requires Oracle unbreakable Linux kernel
Oracle Linux	5.7	Oracle unbreakable Linux kernel is included
Oracle Linux	5.8	Oracle unbreakable Linux kernel is included
Oracle Linux	5.9	Oracle unbreakable Linux kernel is included
Oracle Linux	6.2	Oracle unbreakable Linux kernel is included
Oracle Linux	6.3	Oracle unbreakable Linux kernel is included
Oracle Linux	6.4	Oracle unbreakable Linux kernel is included
Oracle Linux	6.5	Oracle unbreakable Linux kernel is included
Red Hat Enterprise Linux	5.5	Update support is limited for Red Hat Enterprise Linux. See MOS note 1562236.1 for more information.
Red Hat Enterprise Linux	5.6	Update support is limited for Red Hat Enterprise Linux. See MOS note 1562236.1 for more information.
Red Hat Enterprise Linux	5.7	Update support is limited for Red Hat Enterprise Linux. See MOS note 1562236.1 for more information.
Red Hat Enterprise Linux	5.8	Update support is limited for Red Hat Enterprise Linux. See MOS note 1562236.1 for more information.
Red Hat Enterprise Linux	5.9	Update support is limited for Red Hat Enterprise Linux. See MOS note 1562236.1 for more information.
Red Hat Enterprise Linux	6.2	Update support is limited for Red Hat Enterprise Linux. See MOS note 1562236.1 for more information.

Table 1 (Cont.) Enterprise Controller Operating Systems

Certification Platform	Version	Minimum Update Level and Comments
Red Hat Enterprise Linux	6.3	Update support is limited for Red Hat Enterprise Linux. See MOS note 1562236.1 for more information.
Red Hat Enterprise Linux	6.4	Update support is limited for Red Hat Enterprise Linux. See MOS note 1562236.1 for more information.

Proxy Controller Operating Systems

Table 2, "Proxy Controller Operating Systems" lists the supported operating systems for Proxy Controllers.

Table 2 Proxy Controller Operating Systems

Certification Platform	Version	Minimum Update Level and Comments
Oracle Solaris	NA	NA
Oracle Solaris SPARC	10	9/10 through 1/13
Oracle Solaris SPARC	11	11.0 through 11.2 Oracle Solaris 11 Express is not supported.
Oracle Solaris SPARC Local Zone	11	11.0 through 11.2 Oracle Solaris 11 Express is not supported.
Oracle VM Server for SPARC	10	9/10 through 1/13
Oracle VM Server for SPARC	11	11.0 through 11.2 Oracle Solaris 11 Express is not supported.
Oracle Solaris x86	10	9/10 through 1/13
Oracle Solaris x86	11	11.0 through 11.2 Oracle Solaris 11 Express is not supported.
Oracle Solaris x86 Local Zone	11	11.0 through 11.2 Oracle Solaris 11 Express is not supported.
Oracle VM Server for x86	10	9/10 through 1/13
Oracle VM Server for x86	11	11.0 through 11.2 Oracle Solaris 11 Express is not supported.
Linux	NA	NA
Oracle Linux	5.3	NA
Oracle Linux	5.4	NA
Oracle Linux	5.5	Requires Oracle unbreakable Linux kernel
Oracle Linux	5.6	Requires Oracle unbreakable Linux kernel
Oracle Linux	5.7	Oracle unbreakable Linux kernel is included
Oracle Linux	5.8	Oracle unbreakable Linux kernel is included
Oracle Linux	5.9	Oracle unbreakable Linux kernel is included
Oracle Linux	6.2	Oracle unbreakable Linux kernel is included

Table 2 (Cont.) Proxy Controller Operating Systems

Certification Platform	Version	Minimum Update Level and Comments
Oracle Linux	6.3	Oracle unbreakable Linux kernel is included
Oracle Linux	6.4	Oracle unbreakable Linux kernel is included
Oracle Linux	6.5	Oracle unbreakable Linux kernel is included
Red Hat Enterprise Linux	5.0	Update support is limited for Red Hat Enterprise Linux. See MOS note 1562236.1 for more information.
Red Hat Enterprise Linux	5.2	Update support is limited for Red Hat Enterprise Linux. See MOS note 1562236.1 for more information.
Red Hat Enterprise Linux	5.3	Update support is limited for Red Hat Enterprise Linux. See MOS note 1562236.1 for more information.
Red Hat Enterprise Linux	5.4	Update support is limited for Red Hat Enterprise Linux. See MOS note 1562236.1 for more information.
Red Hat Enterprise Linux	5.5	Update support is limited for Red Hat Enterprise Linux. See MOS note 1562236.1 for more information.
Red Hat Enterprise Linux	5.6	Update support is limited for Red Hat Enterprise Linux. See MOS note 1562236.1 for more information.
Red Hat Enterprise Linux	5.7	Update support is limited for Red Hat Enterprise Linux. See MOS note 1562236.1 for more information.
Red Hat Enterprise Linux	5.8	Update support is limited for Red Hat Enterprise Linux. See MOS note 1562236.1 for more information.
Red Hat Enterprise Linux	5.9	Update support is limited for Red Hat Enterprise Linux. See MOS note 1562236.1 for more information.
Red Hat Enterprise Linux	6.2	Update support is limited for Red Hat Enterprise Linux. See MOS note 1562236.1 for more information.
Red Hat Enterprise Linux	6.3	Update support is limited for Red Hat Enterprise Linux. See MOS note 1562236.1 for more information.
Red Hat Enterprise Linux	6.4	Update support is limited for Red Hat Enterprise Linux. See MOS note 1562236.1 for more information.

Base Browsers

Table 3, "Base Browsers" lists the supported browsers for accessing the user interface.

Table 3 Base Browsers

Certification Platform	Version
Firefox	NA
Firefox	10 – 25

Table 3 (Cont.) Base Browsers

Certification Platform	Version
Internet Explorer	NA
Internet Explorer	8.x
Internet Explorer	9.x
Internet Explorer	10.x
Chrome	NA
Chrome	17 – 31

Base Databases

Table 4, "Base Databases" lists the supported product databases.

Table 4 Base Databases

Certification Platform	Version	Supported Update Level	Comments
Oracle Database - Customer-Managed	11gR2	11.2.0.3.0 11.2.0.4.0	All platforms the database supports are allowed Oracle Real Application Clusters are supported.
Oracle Database - Embedded	11gR2	11.2.0.3.0 11.2.0.4.0	Oracle Database 11.2.0.3.0 is used in Oracle Enterprise Manager Ops Center 12.2.1 and earlier. Oracle Database 11.2.0.4.0 is used in Oracle Enterprise Manager Ops Center 12.2.2 and later.

Base Oracle Clusterware for High Availability

Table 5, "Base Oracle Clusterware" lists the supported Oracle Clusterware versions for Enterprise Controller High Availability.

Table 5 Base Oracle Clusterware

Certification Platform	Version	Update Level	Comments
Oracle Clusterware	11gR2	11.2.0.1 or 11.2.0.3	NA

Target Operating Systems

Table 6, "Target Operating Systems" lists the supported target operating systems.

Table 6 Target Operating Systems

Certification Platform	Version	Minimum Update Level and Comments
Oracle Solaris SPARC	NA	NA
Oracle Solaris SPARC	8	Cannot provision Oracle Solaris 8
Oracle Solaris SPARC	9	No Live Upgrade support

Table 6 (Cont.) Target Operating Systems

Certification Platform	Version	Minimum Update Level and Comments
Oracle Solaris SPARC	10	All versions through 1/13
Oracle Solaris SPARC	11	11.0 through 11.2 The Enterprise Controller and Proxy Controller must be on Oracle Solaris 11 to update, provision, and agent-manage Oracle Solaris 11 assets For Oracle Solaris 11.2, support is limited to the same feature set as Oracle Solaris 11.1. Features introduced in Oracle Solaris 11.2, such as Kernel zones, are not yet supported. Oracle Solaris 11 Express is not supported.
Oracle Solaris SPARC Local Zone	10	All versions through 1/13
Oracle Solaris SPARC Local Zone	11	11.0 through 11.2 The Enterprise Controller and Proxy Controller must be on Oracle Solaris 11 to update, provision, and agent-manage Oracle Solaris 11 assets For Oracle Solaris 11.2, support is limited to the same feature set as Oracle Solaris 11.1. Features introduced in Oracle Solaris 11.2, such as Kernel zones, are not yet supported. Oracle Solaris 11 Express is not supported.
Oracle VM Server for SPARC	10	All versions through 1/13
Oracle VM Server for SPARC	11	11.0 through 11.2 The Enterprise Controller and Proxy Controller must be on Oracle Solaris 11 to update, provision, and agent-manage Oracle Solaris 11 assets For Oracle Solaris 11.2, support is limited to the same feature set as Oracle Solaris 11.1. Features introduced in Oracle Solaris 11.2, such as Kernel zones, are not yet supported. Oracle Solaris 11 Express is not supported.
Oracle Solaris x86	NA	NA
Oracle Solaris x86	9	No Live Upgrade support
Oracle Solaris x86	10	All versions through 1/13
Oracle Solaris x86	11	11.0 through 11.2 The Enterprise Controller and Proxy Controller must be on Oracle Solaris 11 to update, provision, and agent-manage Oracle Solaris 11 assets For Oracle Solaris 11.2, support is limited to the same feature set as Oracle Solaris 11.1. Features introduced in Oracle Solaris 11.2, such as Kernel zones, are not yet supported. Oracle Solaris 11 Express is not supported.

Table 6 (Cont.) Target Operating Systems

Certification Platform	Version	Minimum Update Level and Comments
Oracle Solaris x86 Local Zone	10	All versions through 1/13
Oracle Solaris x86 Local Zone	11	11.0 through 11.2 The Enterprise Controller and Proxy Controller must be on Oracle Solaris 11 to update, provision, and agent-manage Oracle Solaris 11 assets For Oracle Solaris 11.2, support is limited to the same feature set as Oracle Solaris 11.1. Features introduced in Oracle Solaris 11.2, such as Kernel zones, are not yet supported. Oracle Solaris 11 Express is not supported.
Oracle VM Server for x86	10	All versions through 1/13 OS Provisioning is not supported.
Oracle VM Server for x86	11	11.0 through 11.2 The Enterprise Controller and Proxy Controller must be on Oracle Solaris 11 to update, provision, and agent-manage Oracle Solaris 11 assets For Oracle Solaris 11.2, support is limited to the same feature set as Oracle Solaris 11.1. Features introduced in Oracle Solaris 11.2, such as Kernel zones, are not yet supported. Oracle Solaris 11 Express is not supported. OS Provisioning is not supported.
Linux	NA	NA
Oracle Linux	5.3	NA
Oracle Linux	5.4	NA
Oracle Linux	5.5	NA
Oracle Linux	5.6	NA
Oracle Linux	5.7	NA
Oracle Linux	5.8	NA
Oracle Linux	5.9	NA
Oracle Linux	6.0	NA
Oracle Linux	6.1	NA
Oracle Linux	6.2	NA
Oracle Linux	6.3	NA
Oracle Linux	6.4	NA
Oracle Linux	6.5	NA
Red Hat Enterprise Linux	4.x	Update support is limited for Red Hat Enterprise Linux. See MOS note 1562236.1 for more information.

Table 6 (Cont.) Target Operating Systems

Certification Platform	Version	Minimum Update Level and Comments
Red Hat Enterprise Linux	5.0	Update support is limited for Red Hat Enterprise Linux. See MOS note 1562236.1 for more information.
Red Hat Enterprise Linux	5.2	Update support is limited for Red Hat Enterprise Linux. See MOS note 1562236.1 for more information.
Red Hat Enterprise Linux	5.3	Update support is limited for Red Hat Enterprise Linux. See MOS note 1562236.1 for more information.
Red Hat Enterprise Linux	5.4	Update support is limited for Red Hat Enterprise Linux. See MOS note 1562236.1 for more information.
Red Hat Enterprise Linux	5.5	Update support is limited for Red Hat Enterprise Linux. See MOS note 1562236.1 for more information.
Red Hat Enterprise Linux	5.6	Update support is limited for Red Hat Enterprise Linux. See MOS note 1562236.1 for more information.
Red Hat Enterprise Linux	5.7	Update support is limited for Red Hat Enterprise Linux. See MOS note 1562236.1 for more information.
Red Hat Enterprise Linux	5.8	Update support is limited for Red Hat Enterprise Linux. See MOS note 1562236.1 for more information.
Red Hat Enterprise Linux	5.9	Update support is limited for Red Hat Enterprise Linux. See MOS note 1562236.1 for more information.
Red Hat Enterprise Linux	6.0	Update support is limited for Red Hat Enterprise Linux. See MOS note 1562236.1 for more information.
Red Hat Enterprise Linux	6.1	Update support is limited for Red Hat Enterprise Linux. See MOS note 1562236.1 for more information.
Red Hat Enterprise Linux	6.2	Update support is limited for Red Hat Enterprise Linux. See MOS note 1562236.1 for more information.
Red Hat Enterprise Linux	6.3	Update support is limited for Red Hat Enterprise Linux. See MOS note 1562236.1 for more information.
Red Hat Enterprise Linux	6.4	Update support is limited for Red Hat Enterprise Linux. See MOS note 1562236.1 for more information.
Novell SUSE Linux Enterprise Server (SLES)	9	NA
Novell SUSE Linux Enterprise Server (SLES)	10	NA
Novell SUSE Linux Enterprise Server (SLES)	11	NA
Windows	NA	NA

Table 6 (Cont.) Target Operating Systems

Certification Platform	Version	Minimum Update Level and Comments
Windows	XP	Windows is only supported in agent-less mode. Monitoring is direct. Patching uses MSCCM 2007. Cannot provision Windows.
Windows	2003	Windows is only supported in agent-less mode. Monitoring is direct. Patching uses MSCCM 2007. Cannot provision Windows.
Windows	2008	Windows is only supported in agent-less mode. Monitoring is direct. Patching uses MSCCM 2007. Cannot provision Windows.

Target Servers

This section shows the supported target servers. Oracle Enterprise Manager Ops Center can perform server management tasks on many platforms. All Oracle/Sun servers with ILOM, ALOM, ELOM, XSCF, and RSC enabled service processors are supported. These servers represent the bulk of server equipment (V-series, X-series, T-series, and M-series) available from Oracle. Exceptions are called out in the documentation for specific features should any exist. The recommended firmware is the most recently tested version.

M5 and M6 systems are supported, but some features have additional limitations:

- When performing firmware provisioning on M5 and M6 systems, do not select the "Requires Host Power Off" option.
- Certain hardware faults on M5 and M6 systems are mapped to the wrapping components, rather than to the correct components.
- When performing OS Provisioning on M5 and M6 domains, if you plan to use the network interfaces on the PCI cards that are available only through OBP, specify the MAC address of the network interface instead of the IP address when you deploy the OS Provisioning plan.

Ensure that you maintain your system firmware. The following are some of the reasons to update the firmware on your system:

- Support for new versions of hardware (or peripherals)
- Expanded compatibility and enhancements
- Better reliability and system availability
- Better system performance
- Additional system features
- Security fixes
- Other bug fixes

See Firmware Resources at

<http://www.oracle.com/technetwork/systems/patches/firmware/firmware-resources-1429462.html> for a high level overview of firmware update recommendations.

See the Oracle hardware documentation and Product Notes for minimum firmware and OS requirements for your servers.

See [Chapter 11, "Hardware"](#) in the Feature Reference Guide for information about downloading and updating the required firmware version.

For the Auto Service Request (ASR) feature, Oracle Enterprise Manager Ops Center supports the ILOM and FMA telemetry sources as well as HALRT faults from Exadata systems. Any hardware supported by Oracle Enterprise Manager Ops Center that is listed as supported in the ASR documentation at <http://www.oracle.com/technetwork/systems/asr/documentation/index.html> is supported for ASR through Oracle Enterprise Manager Ops Center using these telemetry sources.

Target Non-Server Hardware

Table 7, "Target Non-Server Hardware" lists the supported target non-server hardware.

For the Auto Service Request (ASR) feature, Oracle Enterprise Manager Ops Center supports the ILOM and FMA telemetry sources as well as HALRT faults from Exadata systems. Any hardware supported by Oracle Enterprise Manager Ops Center that is listed as supported in the ASR documentation at <http://www.oracle.com/technetwork/systems/asr/documentation/index.html> is supported for ASR through Oracle Enterprise Manager Ops Center using these telemetry sources.

Table 7 Target Non-Server Hardware

Certification Platform	Version	Minimum Update Level
Open Storage	NA	NA
Sun Storage	7110	NA
Sun Storage	7310	NA
Sun Storage	7410	NA
Sun ZFS Storage	7120	NA
Sun ZFS Storage	7320	NA
Sun ZFS Storage	7420	NA
Sun ZFS Storage	7720	NA
Oracle ZFS Storage	ZS3-2	NA
Oracle ZFS Storage	ZS3-4	NA
Network Switches	NA	NA
Sun Blade 6000 and N6000 – Ethernet Switched NEM 24p	10GbE NEM 24p	NA
Sun Network 10GbE Switch 72p	10GbE Switch 72p	NA
Sun Datacenter Infiniband Switch 36	IB Switch 36	NA
Sun Network QDR InfiniBand Gateway Switch	Gateway Switch	NA
Cisco Catalyst	4948	minimum iOS version: rev 12.2 Discovery using SSH is only supported using SSH version 2

Table 7 (Cont.) Target Non-Server Hardware

Certification Platform	Version	Minimum Update Level
Sun Rack Units	NA	NA
Sun Rack II PDUs	Original	Minimum Firmware Version: 1.04 Minimum Bootloader Version: 0.1
Sun Rack II PDUs	Enhanced	Minimum Firmware Version: 2.01 - 16.6.2014 Minimum Bootloader Version: 0.01 - 15.10.2013

Target Virtualization

Table 8, "Target Virtualization" lists the supported target virtualization technologies for control domains.

See the release-specific Oracle VM Server for SPARC Release Notes for the system requirements, including supported platforms, required and recommended operating system versions, and required and recommended firmware versions.

The Oracle VM Server for SPARC documentation is located at

<http://www.oracle.com/technetwork/documentation/vm-sparc-194287.html>

Table 8 Target Virtualization

Certification Platform	Version	Minimum Update and Comments
Oracle VM Server for SPARC	1.2	Oracle Solaris 10 5/09
Oracle VM Server for SPARC	1.3	Oracle Solaris 10 5/09
Oracle VM Server for SPARC	2.0	Oracle Solaris 10 5/09
Oracle VM Server for SPARC	2.1	Oracle Solaris 10 9/10
Oracle VM Server for SPARC	2.2	Oracle Solaris 10 8/11 or Oracle Solaris 11.0.8 or later
Oracle VM Server for SPARC	3.0	Oracle Solaris 10 8/11 or Oracle Solaris 11.1.1 or later
Oracle VM Server for SPARC	3.1	Oracle Solaris 10 1/13 or Oracle Solaris 11.1.1 or later
Oracle Solaris Zones	Oracle Solaris 10	Oracle Solaris 10 8/07
Oracle Solaris Zones	Oracle Solaris 11	NA
Oracle Virtual Machine for x86	v3.0.x, 3.1.x, and 3.2.x	NA
Oracle VM Server for x86 Supported Guest Operating Systems	NA	See http://www.oracle.com/us/technologies/virtualization/024974.htm for information about Guest support.
Oracle VM Server for SPARC Supported Guest Operating Systems	NA	See http://www.oracle.com/technetwork/documentation/vm-sparc-194287.html for information about Guest support.

Target Engineered Systems

[Table 9, "Target Engineered Systems"](#) lists the supported engineered systems.

For the Auto Service Request (ASR) feature, Oracle Enterprise Manager Ops Center supports the ILOM and FMA telemetry sources as well as HALRT faults from Exadata systems. Any hardware supported by Oracle Enterprise Manager Ops Center that is listed as supported in the ASR documentation at

<http://www.oracle.com/technetwork/systems/asr/documentation/index.html> is supported for ASR through Oracle Enterprise Manager Ops Center using these telemetry sources.

Table 9 Target Engineered Systems

Certification Platform	Version	Comments
Oracle SPARC SuperCluster	1.1.3, 1.1.6, 1.5.3, 1.6, and 2.0	Management of one or more Oracle SPARC SuperCluster systems. Oracle SPARC SuperCluster 2.0 is supported on T4-4 and T5-8 only.
Exadata Storage Server	All versions	Supported at component level.
Oracle Exalogic Elastic Cloud	All versions	Supported at component level.
Oracle Exalytics In-Memory Machine	All versions	Supported at component level.
Oracle Big Data Appliance	All versions	Supported at component level.
Oracle Database Appliance	All versions	Supported at component level.

Supported Technology

[Table 10, "Technology"](#) lists the supported technology.

Table 10 Technology

Certification Platform	Version	Comments
Grid Control	11.1	Use the Oracle Enterprise Manager Ops Center Plug-In for GC11
Cloud Control	12.1	Use the Oracle Enterprise Manager Ops Center Plug-In for CC12
Microsoft Configuration Manager	SCCM 2007	NA

Related Articles and Resources

See the *Oracle Enterprise Manager Ops Center Installation Guide for Oracle Solaris Operating System* and *Oracle Enterprise Manager Ops Center Installation Guide for Linux Operating Systems* for information about installing Oracle Enterprise Manager Ops Center. These documents are available in the Oracle Enterprise Manager Ops Center Documentation Library at http://docs.oracle.com/cd/E40871_01/index.htm.

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Oracle Enterprise Manager Ops Center Certified Systems Matrix Guide, 12c Release 2 (12.2.2.0.0)
E38526-05

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