

**Oracle Ethernet Switch ML2 Mechanism
Driver for OpenStack Neutron Product
Notes**

ORACLE

Part No: E64528-01
July 2015

Part No: E64528-01

Copyright © 2015, Oracle and/or its affiliates. All rights reserved.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this is software or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, then the following notice is applicable:

U.S. GOVERNMENT END USERS. Oracle programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, delivered to U.S. Government end users are "commercial computer software" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, shall be subject to license terms and license restrictions applicable to the programs. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Xeon are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Opteron, the AMD logo, and the AMD Opteron logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

This software or hardware and documentation may provide access to or information about content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services unless otherwise set forth in an applicable agreement between you and Oracle. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services, except as set forth in an applicable agreement between you and Oracle.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info> or visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

Référence: E64528-01

Copyright © 2015, Oracle et/ou ses affiliés. Tous droits réservés.

Ce logiciel et la documentation qui l'accompagne sont protégés par les lois sur la propriété intellectuelle. Ils sont concédés sous licence et soumis à des restrictions d'utilisation et de divulgation. Sauf stipulation expresse de votre contrat de licence ou de la loi, vous ne pouvez pas copier, reproduire, traduire, diffuser, modifier, breveter, transmettre, distribuer, exposer, exécuter, publier ou afficher le logiciel, même partiellement, sous quelque forme et par quelque procédé que ce soit. Par ailleurs, il est interdit de procéder à toute ingénierie inverse du logiciel, de le désassembler ou de le décompiler, excepté à des fins d'interopérabilité avec des logiciels tiers ou tel que prescrit par la loi.

Les informations fournies dans ce document sont susceptibles de modification sans préavis. Par ailleurs, Oracle Corporation ne garantit pas qu'elles soient exemptes d'erreurs et vous invite, le cas échéant, à lui en faire part par écrit.

Si ce logiciel, ou la documentation qui l'accompagne, est concédé sous licence au Gouvernement des Etats-Unis, ou à toute entité qui délivre la licence de ce logiciel ou l'utilise pour le compte du Gouvernement des Etats-Unis, la notice suivante s'applique:

U.S. GOVERNMENT END USERS. Oracle programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, delivered to U.S. Government end users are "commercial computer software" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, shall be subject to license terms and license restrictions applicable to the programs. No other rights are granted to the U.S. Government.

Ce logiciel ou matériel a été développé pour un usage général dans le cadre d'applications de gestion des informations. Ce logiciel ou matériel n'est pas conçu ni n'est destiné à être utilisé dans des applications à risque, notamment dans des applications pouvant causer des dommages corporels. Si vous utilisez ce logiciel ou matériel dans le cadre d'applications dangereuses, il est de votre responsabilité de prendre toutes les mesures de secours, de sauvegarde, de redondance et autres mesures nécessaires à son utilisation dans des conditions optimales de sécurité. Oracle Corporation et ses affiliés déclinent toute responsabilité quant aux dommages causés par l'utilisation de ce logiciel ou matériel pour ce type d'applications.

Oracle et Java sont des marques déposées d'Oracle Corporation et/ou de ses affiliés. Tout autre nom mentionné peut correspondre à des marques appartenant à d'autres propriétaires qu'Oracle.

Intel et Intel Xeon sont des marques ou des marques déposées d'Intel Corporation. Toutes les marques SPARC sont utilisées sous licence et sont des marques ou des marques déposées de SPARC International, Inc. AMD, Opteron, le logo AMD et le logo AMD Opteron sont des marques ou des marques déposées d'Advanced Micro Devices. UNIX est une marque déposée d'The Open Group.

Ce logiciel ou matériel et la documentation qui l'accompagne peuvent fournir des informations ou des liens donnant accès à des contenus, des produits et des services émanant de tiers. Oracle Corporation et ses affiliés déclinent toute responsabilité ou garantie expresse quant aux contenus, produits ou services émanant de tiers, sauf mention contraire stipulée dans un contrat entre vous et Oracle. En aucun cas, Oracle Corporation et ses affiliés ne sauraient être tenus pour responsables des pertes subies, des coûts occasionnés ou des dommages causés par l'accès à des contenus, produits ou services tiers, ou à leur utilisation, sauf mention contraire stipulée dans un contrat entre vous et Oracle.

Accessibilité de la documentation

Pour plus d'informations sur l'engagement d'Oracle pour l'accessibilité à la documentation, visitez le site Web Oracle Accessibility Program, à l'adresse <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

Accès au support électronique

Les clients Oracle qui ont souscrit un contrat de support ont accès au support électronique via My Oracle Support. Pour plus d'informations, visitez le site <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info> ou le site <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> si vous êtes malentendant.

Contents

Using This Documentation	7
Late-Breaking Information	9
What's New in This Release	9
System Platforms Supported	9
Supported OS Levels	9
Downloading and Installing the Driver	10
▼ Download the Driver	10
▼ Install the Driver	11
Known Issues	11

Using This Documentation

- **Overview** – Provides late-breaking information about the Oracle Ethernet Switch ML2 Mechanism Driver for OpenStack Neutron Module
- **Audience** – Technicians, system administrators, and authorized service providers
- **Required knowledge** – Advanced experience troubleshooting and replacing hardware

These topics describe how to access the documentation and leave feedback on it.

- [“Product Documentation Library” on page 7](#)
- [“Feedback” on page 7](#)

Product Documentation Library

Documentation and resources for this product and related products are available at http://www.oracle.com/goto/es2-72_es2-64/docs.

Feedback

Provide feedback about this documentation at <http://www.oracle.com/goto/docfeedback>.

Late-Breaking Information

These topics provide late-breaking information about the Oracle Ethernet Switch ML2 Mechanism Driver for OpenStack Neutron.

- [“What's New in This Release” on page 9](#)
- [“System Platforms Supported” on page 9](#)
- [“Supported OS Levels” on page 9](#)
- [“Downloading and Installing the Driver” on page 10](#)
- [“Known Issues” on page 11](#)

What's New in This Release

This software release is the first to support the Oracle Ethernet Switch ML2 Mechanism Driver for OpenStack Neutron. When installed, the driver supports host servers, controllers, and compute nodes in OpenStack deployments.

Using OpenStack, Oracle Ethernet Switch ML2 Mechanism Driver and Oracle Fabric Manager, you can launch Oracle virtual machines and dynamically configure them to connect through VLAN networks on Oracle Ethernet Switches.

System Platforms Supported

This release of driver is supported on the Oracle Switch ES2-72 and Oracle Switch ES2-64, running a minimum firmware version of 2.0.0.3.

This driver does not support the Oracle Fabric Interconnect F1-15 and Oracle Fabric Interconnect F1-4. A separate driver is required. For details about that driver, refer to the web page at: <http://www.oracle.com/goto/fabric-interconnect/docs>.

Supported OS Levels

This release of the driver is supported on the following OSs.

- Oracle Linux 6 Update 5, either Oracle Unbreakable Kernel or Oracle Red Hat compatible kernel
- Oracle VM 3.3.1

Note - This release of the driver is supported in specific configurations. For information, refer to the *Oracle Ethernet Switch ML2 Mechanism Driver for OpenStack Neutron Installation Guide*.

Downloading and Installing the Driver

These topics provide a summary of steps to download and install the driver.

- [“Download the Driver” on page 10](#)
- [“Install the Driver” on page 11](#)

▼ Download the Driver

The driver is an RPM file that is packaged in a ZIP file.

1. **Log on to:**
<https://support.oracle.com>
2. **Click the Patches and Updates tab.**
3. **In the work area, click the Search tab.**
4. **Click the Product or Family (Advanced) link.**
5. **In the Product Is field, enter Oracle Fabric Manager.**
6. **In the Release Is field, select the driver.**
7. **Click Search to find the driver.**
8. **On the driver page, click the filename to download the ZIP file to a network-accessible node.**
9. **Before installing the driver, read any README file or other text file for more information.**
10. **Unzip the ZIP file, and proceed to [“Install the Driver” on page 11](#).**

▼ Install the Driver

- **Install the driver.**

Refer to the Installation topic in the *Oracle Ethernet Switch ML2 Mechanism Driver for OpenStack Neutron Installation Guide*.

Known Issues

The following known issues exist in this release of the driver.

Bug ID	Description
20239764	<p>An Available, But Older, DHCP Agent Version Causes dnsmasq to Fail</p> <p>An older version of <code>dnsmasq</code> can cause DHCP (or the DHCP agent) to generate IP addresses for VMs, but not actually assign them to the VMs. The minimum version <code>dnsmasq</code> that should be used is 2.65.</p> <p>When using YUM, the older version of <code>dnsmasq</code> might be included in the repository. (Related to 20353846).</p> <p>Workaround:</p> <ol style="list-style-type: none"> 1. Check for the older version by issuing <code>rpm -qa grep dnsmasq</code> If a version earlier than 2.65 is present, go to the next step. 2. Upgrade to at least DHCP version 2.65 for Oracle Linux 6: <pre>rpm -Uvh dnsmasq-2.65-1.el6.rfx.x86_64.rpm</pre>
21365688	<p>Commands sent from the ES2 Mechanism Driver to OFM fail when switch is under load</p> <p>When the ES2 switch is under load or when there are many concurrent requests on OFM, then the ES2 OFM Plugin will time out and cause API requests to fail. This means that OpenStack requests such as adding a VLAN or adding a port to a VLAN will fail.</p> <p>Workaround:</p> <p>Retry OpenStack requests again.</p>

