Oracle® Communications Tekelec Platform

Hardware Documentation Roadmap Reference

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Oracle® Communications Tekelec Platform Hardware Documentation Roadmap Reference

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Introduction

Topics:

Overview

This document is an aid to navigate the respective manufacturer online documentation. This document provides links to typical hardware-related user information. The referenced documentation includes hardware descriptions and operation information.

The included hardware utilizes the HP ProLiant G6/G7/Gen8/Gen9 or Oracle X5-2 line of servers mounted in a cabinet. Dependent upon customer order and system configuration delivered, the cabinet may be powered by either an AC or DC input from the customer site. There are separate cabinet assemblies for AC or DC installations.

The individual customer ordered system configuration dictates the components installed in the cabinet.

Scope and Audience

Note: All personnel must be aware of and conform to the safety information provided throughout the documentation included with this product.

Testing, system software, or applications software are not discussed in this manual.

Manual Organization

This manual is organized into the following chapters:

- *Introduction* provides information about the manual and installation support.
- *Roadmap* points to the respective manufacturer documentation for typical user information.

Documentation Admonishments

Admonishments are icons and text throughout this manual that alert the reader to assure personal safety, to minimize possible service interruptions, and to warn of the potential for equipment damage.

Table 1: Admonishments

Icon	Description
DANGER	Danger: (This icon and text indicate the possibility of *personal injury*.)

Icon	Description
WARNING	Warning: (This icon and text indicate the possibility of *equipment damage*.)
CAUTION	Caution: (This icon and text indicate the possibility of *service interruption*.)
TOPPLE	Topple: (This icon and text indicate the possibility of *personal injury* and *equipment damage*.)

Related Publications

For information about additional publications that are related to this document, refer to the *Related Publications Reference* document, which is published as a separate document on the Oracle Technology Network (OTN) site. See *Locate Product Documentation on the Oracle Help Center Site* for more information.

Locate Product Documentation on the Oracle Help Center Site

Oracle Communications customer documentation is available on the web at the Oracle Help Center (OHC) site, *http://docs.oracle.com*. You do not have to register to access these documents. Viewing these files requires Adobe Acrobat Reader, which can be downloaded at *http://www.adobe.com*.

1. Access the Oracle Help Center site at *http://docs.oracle.com*.
2. Click **Industries**.
3. Under the Oracle Communications subheading, click the **Oracle Communications documentation** link.
   The Communications Documentation page appears. Most products covered by these documentation sets will appear under the headings "Network Session Delivery and Control Infrastructure" or "Platforms."
4. Click on your Product and then the Release Number.
   A list of the entire documentation set for the selected product and release appears.
5. To download a file to your location, right-click the **PDF** link, select **Save target as** (or similar command based on your browser), and save to a local folder.

Customer Training

Oracle University offers training for service providers and enterprises. Visit our web site to view, and register for, Oracle Communications training:

http://education.oracle.com/communication

To obtain contact phone numbers for countries or regions, visit the Oracle University Education web site:

www.oracle.com/education/contacts

My Oracle Support (MOS)

MOS (*https://support.oracle.com*) is your initial point of contact for all product support and training needs. A representative at Customer Access Support (CAS) can assist you with MOS registration.

Call the CAS main number at 1-800-223-1711 (toll-free in the US), or call the Oracle Support hotline for your local country from the list at *http://www.oracle.com/us/support/contact/index.html*. When calling, make the selections in the sequence shown below on the Support telephone menu:

1. Select **2** for New Service Request
2. Select **3** for Hardware, Networking and Solaris Operating System Support
3. Select one of the following options:

   - For Technical issues such as creating a new Service Request (SR), Select **1**
   - For Non-technical issues such as registration or assistance with MOS, Select **2**

You will be connected to a live agent who can assist you with MOS registration and opening a support ticket.

MOS is available 24 hours a day, 7 days a week, 365 days a year.

Emergency Response

In the event of a critical service situation, emergency response is offered by the Customer Access Support (CAS) main number at 1-800-223-1711 (toll-free in the US), or by calling the Oracle Support hotline for your local country from the list at *http://www.oracle.com/us/support/contact/index.html*. The emergency response provides immediate coverage, automatic escalation, and other features to ensure that the critical situation is resolved as rapidly as possible.

A critical situation is defined as a problem with the installed equipment that severely affects service, traffic, or maintenance capabilities, and requires immediate corrective action. Critical situations affect service and/or system operation resulting in one or several of these situations:

- A total system failure that results in loss of all transaction processing capability
- Significant reduction in system capacity or traffic handling capability
- Loss of the system's ability to perform automatic system reconfiguration

- Inability to restart a processor or the system
- Corruption of system databases that requires service affecting corrective actions
- Loss of access for maintenance or recovery operations
- Loss of the system ability to provide any required critical or major trouble notification

Any other problem severely affecting service, capacity/traffic, billing, and maintenance capabilities may be defined as critical by prior discussion and agreement with Oracle.

Chapter

2

Roadmap

Topics:

Introduction

This chapter contains links as an aid to navigate the respective manufacturer online documentation.

Note: Viewing the user online documentation requires Internet access. For the most current user documentation, always reference the latest manufacturer online documentation.

Not all components, features, or documents referenced in this aid may be installed or used. For any questions related to available components or hardware features, contact your Sales representative. For assistance with the content of the referenced user documentation or help with procedures, contact *My Oracle Support (MOS)*

General Descriptions and Hardware Features

This category directs you to the manufacturer online documentation that provides general descriptions of equipment including hardware features available.

Note: Not all features presented in the manufacturer documentation may be supported by this configuration. Contact *My Oracle Support (MOS)* for additional information.

- ▷*HP BladeSystem c-Class architecture technology brief* provides a general explanation of c-Class architecture and describes how the components within BladeSystem c-Class work together. ◁

- *Oracle Server X5-2 System Architecture* provides a general explanation of Oracle's X5-2 architecture and describes how the components within it function.

- ▷*Important Safety Information - For Server, Storage, Power, Networking, and Rack Products* contains important safety information concerning Server, Storage, Power, Networking, and Rack Products. ◁

- ▷The *HP 10000 G2 Series Racks User Guide* provides additional installation information for the HP 10000 G2 Series Racks. ◁

- ▷The *HP Intelligent Rack Family User Guide* provides additional installation information for the HP642 series cabinet. ◁

- ▷*Best practices for HP 10000 Series and HP 10000 G2 Series Racks* outlines recommended practices for configuring, installing, transporting, and establishing a work environment for the HP 10000 and HP 10000 Generation 2 (G2) Series Racks. ◁

- ▷ *HP ProLiant Intel-based 300-series G6 and G7 servers* describes the key technologies implemented in Intel-based HP ProLiant 300-series G6 and G7 servers. ◁

- ▷*Technologies in the HP BladeSystem c7000 Enclosure* describes the HP BladeSystem c7000 Enclosure. ◁

- ▷*HP ProLiant BL460c G6 Server Blade User Guide* describes the ProLiant BL460c blade server. ◁

- ▷*HP ProLiant BL460c Gen8 Server Blade User Guide* describes the ProLiant BL460c Gen8 blade server.◁
- ▷*HP ProLiant BL460c Gen9 Server Blade User Guide* describes the ProLiant BL460c Gen9 blade server.◁
- ▷*HP ProLiant BL620c G7 Server Blade User Guide* describes the ProLiant BL620c blade server. ◁
- ▷*HP ProLiant DL360 G6 Server User Guide* describes the HP ProLiant DL360 G6 Server system features and components. ◁
- ▷*HP ProLiant DL360p Gen8 Server User Guide* describes the HP ProLiant DL360p Gen8 Server system features and components. ◁
- ▷*HP ProLiant DL380 G6 Server User Guide* describes the HP ProLiant DL380 G6 Server system features and components. ◁
- ▷*HP ProLiant DL380p Gen8 Server User Guide* describes the HP ProLiant DL380p Gen8 Server system features and components. ◁
- ▷*HP ProLiant DL360 Gen9 Server User Guide* describes the HP ProLiant DL360 Gen9 Server system features and components.◁
- ▷*HP ProLiant DL380 Gen9 Server User Guide* describes the HP ProLiant DL380 Gen9 Server system features and components◁
- *Oracle X5 Series Servers Administration Guide* describes the Oracle X5-2 Server system features and components.
- *Cisco Catalyst Blade Switch 3020 for HP Hardware Installation Guide* describes the Catalyst 3020 switch, as well as system features and components.
- ▷*ProCurve Series 6120 Blade Switches Installation and Getting Started Guide* describes the HP ProCurve 6120XG switch, as well as system features and components. ◁
- *Cisco Catalyst 3560 Switch Hardware Installation Guide* describes the Catalyst 3560 switch, as well as system features and components.
- *Catalyst 4900 Series Switch Installation Guide* describes the Cisco Catalyst 4900 series switches, as well as system features and components.
- *Catalyst 4948E and Catalyst 4948E-F Switch Installation Guide* describes the Cisco Catalyst 4948E and 4948E-F switches, as well as system features and components.
- *Panduit Air Duct Installation Guide* describes the Panduit Air Duct necessary for the Catalyst 4948E-F Switch
- ▷*Brocade 8Gb SAN Switch for HP BladeSystem c-Class* describes the Brocade SAN switch, as well as system features and components. ◁
- ▷*HP 6125G/XG Ethernet Blade Switch* describes the HP 6125G/XG Ethernet Blade switch, as well as system features and components. ◁
- ▷*HP 6125XLG Ethernet Blade Switch* describes the HP 6125XLG Ethernet Blade switch, as well as system features and components.◁

- ▷*HP StorageWorks D2600/D2700 Disk Enclosure User Guide* describes the HP D2700 storage array. ◁

- ▷*HP StorageWorks 2012i Modular Smart Array User Guide* describes the HP MSA2012 storage array. ◁

- ▷*HP StorageWorks P2000 G3 MSA System FC/iSCSI User Guide* describes the HP P2000 storage array. ◁

- ▷*1Gb Ethernet Pass-Thru Module* describes the 1Gb Ethernet Pass-Thru Module. ◁

- ▷*HP Integrated Lights-Out 2 User Guide* describes the HP iLO 2 for ProLiant G6 Servers setup. ◁

- ▷*HP Integrated Lights-Out 3 User Guide* describes the HP iLO 3 for ProLiant G7 Servers setup. ◁

- ▷*HP Integrated Lights-Out 4 User Guide* describes the HP iLO 4 for ProLiant Gen8 / Gen9 Servers setup. ◁

- *Oracle Integrated Lights Out Manager (ILOM) 3.1 User's Guide* describes the Oracle ILOM.

- *Westell 07005-PDP-M3* describes the DC Power Distribution Panel.

- *Telect 125A 8-Position Demarcation panel ±24V/-48V* describes the Telect 125A 8-Position Demarcation panel, ±24V/-48V

- *Telect 150A Dual-feed 4/4 TPA/GMT, -48V* describes the Telect 150A Dual-feed 4/4 TPA/GMT, -48V.

- ▷*HP 252663 Modular Power Distribution Unit* describes the AC Power Distribution Unit. ◁

User Operations - LEDs

This category directs you to specific sections of the manufacturer online documentation on LED indicators for the specified equipment.

⚠ WARNING **Warning:** Customers do not perform installation procedures; these procedures are performed by authorized personnel. Contact *My Oracle Support (MOS)* for assistance with any procedure.

⚠ WARNING **Warning:** Performing any procedure not authorized or approved by Oracle may void any or all Oracle warranties. Contact *My Oracle Support (MOS)* for assistance with any procedure.

- ▷The section *Interpreting LED activity in the Brocade 8Gb SAN Switch for HP BladeSystem c-Class* provides information describing LED functions of the Brocade SAN switch. ◁

- Information describing LED functions of the 3020 switch can be found in this document: *Cisco Catalyst Blade Switch 3020 for HP Hardware Installation Guide*.

- See the section *LEDs in the Cisco Catalyst 3560 Switch Hardware Installation Guide* for information describing LED functions of the 3560 switch.

- The LED functions of the Cisco Catalyst 4900 Series Switch can be found in this document: *Catalyst 4900 Series Switch Installation Guide*.

- The LED functions of the Cisco Catalyst 4948E/4948E-F Switches can be found in this document: *Catalyst 4948E and Catalyst 4948E-F Switch Installation Guide*.

- ▷The LED functions of the HP ProCurve 6120XG switch can be found in this document: *ProCurve Series 6120 Blade Switches Installation and Getting Started Guide.*◁

- ▷*HP 6125G/XG Ethernet Blade Switch* describes the HP 6125G/XG Ethernet Blade switch, as well as system features and components.◁

- ▷*HP 6125XLG Ethernet Blade Switch* describes the HP 6125XLG Ethernet Blade switch, as well as system features and components.◁

- *Panduit Air Duct Installation Guide* describes the Panduit Air Duct necessary for the Catalyst 4948E-F Switch

- ▷*HP ProLiant DL360 G6 Server User Guide* provides information describing LED functions of the DL 360 G6 server.◁

- ▷*HP ProLiant DL360p Gen8 Server User Guide* provides information describing LED functions of the DL 360p Gen8 server.◁

- ▷*HP ProLiant DL380 G6 Server User Guide* provides information describing LED functions of the DL 380 G6 server.◁

- ▷*Hp ProLiant DL380 Gen8 Server User Guide* provides information describing LED functions of the DL 380p Gen8 server.◁

- ▷*HP ProLiant DL360 Gen9 Server User Guide* provides information describing LED functions of the DL360 Gen9 Server system features and components.◁

- ▷*HP ProLiant DL380 Gen9 Server User Guide* provides information describing LED functions of the DL 380p Gen9 server.◁

- ▷See the *HP ProLiant BL460c G6 Server Blade User Guide* for information describing LED functions of the BL460c G6 server.◁

- ▷See the *HP ProLiant BL460c Gen8 Server Blade User Guide* for information describing LED functions of the BL460c Gen8 server.◁

- ▷See the *HP ProLiant BL460c Gen9 Server Blade User Guide* for information describing LED functions of the BL460c Gen9 server.◁

- ▷*HP ProLiant DL320e Generation 8 v2 User Guide* describes the HP ProLiant DL320e Gen8 v2 Server system features and components.◁

- *Oracle X5 Series Servers Administration Guide* describes the Oracle Server X5-2 system features and components.

- *Oracle Server X5-2 Installation Guide* provides information describing LED Functions on the Oracle Server X5-2.

- ▷The *HP Integrated Lights-Out 2 User Guide* provides information describing LED functions of the HP iLO 2 for ProLiant G6 Servers. ◁

- ▷The *HP Integrated Lights-Out 3 User Guide* provides information describing LED functions of the HP iLO 3 for ProLiant G7 Servers.◁

- ▷The *HP Integrated Lights-Out 4 User Guide* provides information describing LED functions of the HP iLO 4 for ProLiant Gen8 / Gen9 Servers.◁
- The *Oracle Integrated Lights Out Manager (ILOM) 3.1 User's Guide* describes the Oracle ILOM.
- ▷The section *Front status and UID module in the HP StorageWorks D2600/D2700 Disk Enclosure User Guide* provides information describing LED functions of the HP D2700 storage array. ◁
- ▷See the section *Controller Components and LEDs in the HP StorageWorks 2012i Modular Smart Array User Guide* for information describing LED functions of the HP MSA2012 storage array. ◁
- ▷The section *LED descriptions in the HP StorageWorks P2000 G3 MSA System FC/iSCSI User Guide* provides information describing LED functions of the HP P2000 storage array.◁
- *Telect 125A 8-Position Demarcation panel ±24V/-48V* describes the Telect 125A 8-Position Demarcation panel, ±24V/-48V
- *Telect 150A Dual-feed 4/4 TPA/GMT, -48V* describes the Telect 150A Dual-feed 4/4 TPA/GMT, -48V.

FRU Procedures

Caution: The procedures presented are for informational purposes only. Contact the appropriate hardware vendor for replacement of any FRUs.

CAUTION

Warning: FRU procedures should only be performed by authorized personnel. Performing any procedure not authorized or approved by Oracle may void any or all Oracle warranties.

WARNING

- ▷ *Hot-plug SAS hard drive removal and replacement of the HP ProLiant DL360 G6 Server Maintenance and Service Guide* ◁
- ▷ *Hot-plug SAS hard drive removal and replacement of the HP ProLiant DL380 G6 Server Maintenance and Service Guide* ◁
- ▷ *Hot-plug power supply removal and replacement of the HP ProLiant DL360 G6 Server Maintenance and Service Guide* ◁
- ▷ *Hot-plug power supply removal and replacement of the HP ProLiant DL380 G6 Server Maintenance and Service Guide* ◁
- ▷*Hot-plug power supply removal and replacement of the HP BladeSystem c7000 Enclosure Maintenance and Service Guide*◁
- ▷*Hot-plug SAS hard drive removal and replacement of the HP ProLiant DL360p Gen8 Server Maintenance and Service Guide*◁
- ▷*Hot-plug SAS hard drive removal and replacement of the HP ProLiant DL380p Gen8 Server Maintenance and Service Guide*◁

- ▷*Hot-plug power supply removal and replacement of the HP ProLiant DL360p Gen8 Server Maintenance and Service Guide*◁
- ▷*Hot-plug power supply removal and replacement of the HP ProLiant DL380p Gen8 Server Maintenance and Service Guide*◁
- ▷*Hot-plug SAS hard drive removal and replacement of the HP ProLiant DL360 Gen9 Server Maintenance and Service Guide*◁
- ▷*Hot-plug SAS hard drive removal and replacement of the HP ProLiant DL380 Gen9 Server Maintenance and Service Guide*◁
- ▷*Hot-plug power supply removal and replacement of the HP ProLiant DL360 Gen9 Server Maintenance and Service Guide*◁
- ▷*Hot-plug power supply removal and replacement of the HP ProLiant DL380 Gen9 Server Maintenance and Service Guide*◁
- ▷To remove the ProLiant DL360 G6 Server from the rack, use *HP ProLiant DL360 G6 Server Maintenance and Service Guide*.◁
- ▷To remove the ProLiant DL380 G6 Server from the rack, use *HP ProLiant DL380 G6 Server Maintenance and Service Guide*.◁
- ▷To remove the ProLiant DL360 Gen8 Server from the rack, use of *HP ProLiant DL360 Gen8 Server Maintenance and Service Guide*.◁
- ▷To remove the ProLiant DL380 G8 Server from the rack, use *HP ProLiant DL380 Gen8 Server Maintenance and Service Guide*.◁
- ▷To remove the ProLiant DL360 Gen9 Server from the rack, use *HP ProLiant DL360 Gen9 Server Maintenance and Service Guide*◁
- ▷To remove the ProLiant DL380 Gen9 Server from the rack, use *HP ProLiant DL380 Gen9 Server Maintenance and Service Guide*.◁
- ▷To remove servers from the HP BladeSystem c7000, use *HP BladeSystem c7000 Enclosure Maintenance and Service Guide*.◁
- ▷To remove the HP 6125G/XG, use *HP 6125G & 6125G/XG Blade Switches Installation Guide*.◁
- ▷To remove the HP 6125XLG, use *HP 6125XLG Blade Switch Installation Guide*.◁
- ▷To remove the AC Power Distribution Unit (*HP 252663-D72 or 252663-B31 Modular Power Distribution Unit*)

  - ▷To remove the AC PDU extension bar (*Extension Bars, HP 252663-D72 or 252663-B31 Modular Power Distribution Unit*) ◁

  ◁
- To remove the X5-2 Server, use *Oracle Server X5-2 Service Manual*
- To remove the Catalyst 4900 Series Switch from the rack, use *Catalyst 4900 Series Switch Installation Guide*.

- To remove the Catalyst 3020 Blade Switch, use *Catalyst Blade Switch 3020 for HP Hardware Installation Guide*.
- To remove the DC Power Distribution Panel from the TMM rack, use *Westell 07005-PDP-M3*.
  - To remove or configure the PDP Alarm Card, use *Westell 07005-PDP-M3* for removing, configuring and replacing the PDP Alarm Card (an integral part of the *Westell 07005-PDP-M3*).