



Installing and Maintaining the HP DL360 G7 Server for Message Networking

April 2011

Notice

Every effort was made to ensure that the information in this book was complete and accurate at the time of printing. However, information is subject to change.

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<http://www.avaya.com/support>

Preventing Toll Fraud

Toll Fraud is the unauthorized use of your telecommunications system by an unauthorized party (for example, a person who is not a corporate employee, agent, subcontractor, or working on your company's behalf). Be aware that there is a risk of toll fraud associated with your system and that, if toll fraud occurs, it can result in substantial additional charges for your telecommunications services.

Avaya Fraud Intervention

If you *suspect that you are being victimized* by toll fraud and you need technical assistance or support, call the Technical Service Center Toll Fraud Intervention Hotline at 1.800.643.2353.

Providing Telecommunications Security

Telecommunications security of voice, data, and/or video communications is the prevention of any type of intrusion to, that is, either unauthorized or malicious access to or use of, your company's telecommunications equipment by some party.

Your company's "telecommunications equipment" includes both this Avaya product and any other voice/data/video equipment that could be accessed via this Avaya product (that is, "networked equipment").

An "outside party" is anyone who is not a corporate employee, agent, subcontractor, or working on your company's behalf. Whereas, a "malicious party" is Anyone, including someone who may be otherwise authorized, who accesses your telecommunications equipment with either malicious or mischievous intent.

Such intrusions may be either to/through synchronous (time-multiplexed and/or circuit-based) or asynchronous (character-, message-, or packet-based) equipment or interfaces for reasons of:

- Utilization (of capabilities special to the accessed equipment)
- Theft (such as, of intellectual property, financial assets, or toll-facility access)
- Eavesdropping (privacy invasions to humans)
- Mischief (troubling, but apparently innocuous, tampering)
- Harm (such as harmful tampering, data loss or alteration, regardless of motive or intent)

Be aware that there may be a risk of unauthorized intrusions associated with your system and/or its networked equipment. Also realize that, if such an intrusion should occur, it could result in a variety of losses to your company, including but not limited to, human/data privacy, intellectual property, material assets, financial resources, labor costs, and/or legal costs).

Your Responsibility for Your Company's Telecommunications Security

The final responsibility for securing both this system and its networked equipment rests with you – an Avaya customer's system administrator, your telecommunications peers, and your managers. Base the fulfillment of your responsibility on acquired knowledge and resources from a variety of sources including but not limited to:

- Installation documents
- System administration documents
- Security documents and anti-virus patches
- Hardware-/software-based security tools
- Shared information between you and your peers
- Telecommunications security experts

To prevent intrusions to your telecommunications equipment, you and your peers should carefully program and configure your:

- Avaya provided telecommunications systems and their interfaces

- Avaya provided software applications, as well as their underlying hardware/software platforms and interfaces
- Any other equipment networked to your Avaya products

Avaya does not warrant that this product is immune from or will prevent unauthorized use of telecommunication services or facilities accessed through or connected to it. Avaya is not responsible for any damages or charges that result from either unauthorized uses or from incorrect installations of the security patches that are made available from time to time.

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Industry Canada (IC) Interference Information

This digital apparatus does not exceed the Class A limits for radio noise emissions set out in the radio interference regulations of Industry Canada.

Le Présent Appareil Numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la class A prescrites dans le règlement sur le brouillage radioélectrique édicté par le Industrie Canada.

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Write: GlobalWare Solutions
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Haverhill, MA 01835 USA
Attn: Avaya Account Management

Email: totalware@gwsmail.com

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European Union Declaration of Conformity

The "CE" mark affixed to the equipment means that it conforms to the referenced European Union (EU) Directives listed below:

EMC Directive 89/336/EEC

Low-Voltage Directive 73/23/EEC

For more information on standards compliance, contact your local distributor.

Warranty

Avaya Inc. provides a limited warranty on this product. Refer to your sales agreement to establish the terms of the limited warranty. In addition, Avaya's standard warranty language as well as information regarding support for this product, while under warranty, is available through the following Web site: www.avaya.com/support.

Your comments are welcome. They can assist us in improving our documentation. Please address your comments to infodev@avaya.com.

Installing and Maintaining the HP DL360 G7 Server for Message Networking

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Chapter 1. Introduction to the HP DL360 G7 Server

Introduction

The **Avaya Common Servers** category includes the **HP ProLiant DL360 G7 1U server** which supports several Avaya software solutions, some requiring additional hardware and memory requirements beyond the standard configuration.

Purpose of this Guide

This Guide covers **Message Networking** specific installation and maintenance information for the HP DL360 G7 server. **Message Networking** uses the HP DL360 G7 Server.

Reference documentation

This guide refers to the following two guides:

- *Installing the HP DL360 G7 Server.*
- *Maintaining and Troubleshooting the HP ProLiant DL360 G7 Server*

Both these guides contain detailed information on the HP DL360 G7 Server hardware specifications as well as

installation and maintenance procedures. Read both these guides before reading this guide.

They are available on the Avaya Support Web site at <http://www.avaya.com/support>

Chapter 2. Installing the HP DL360 G7 Server

Introduction

This chapter describes Message Networking specific installation procedures and checklists.

Memory Requirements for Message Networking

The DL360 G7 server must have a minimum of 4 GB of RAM in order to setup Message Networking.

Note: Message Networking does not support any custom hardware.

Installation checklist

This installation checklist refers to the following documents that are available on the HP Web site:

- **SI** - Important Safety Information for Server Storage, Power, Networking, and Rack Products.
- **MSG** - HP ProLiant DL360 G7 Server Maintenance and Service Guide.
- **TS** - HP ProLiant Servers Troubleshooting Guide.

■ **UG** - HP ProLiant DL360 G7 Server User Guide.

No.	Task	Refers to	Avaya recommendation	✓
1	Observe safety warnings.	SI UG: <i>Rack warnings</i>		
2	Examine contents of shipping container (Avaya provided equipment)	UG: <i>Contents of the server shipping carton</i>	Ensure that the 6-digit material code on the order matches the 6-digit material code on the shipping container.	
3	Verify that the rack is installed according to the manufacturer's instructions and in accordance with all local codes and laws.			
4	Examine installation environment (customer provided equipment)	UG: <i>Optimum environment</i>		
5	Verify that the rack is grounded in accordance with local electrical code.	UG: <i>Electrical grounding requirements</i>		
6	Remove the cabinet doors, if necessary			
7	Attach the rails to the rack.		The rails included with the server will accommodate most square-hole racks. If these rails do not fit the rack, the customer must provide rails or a shelf for rack installation. Also, the rails included with the server might not work with roundhole racks, in which case the customer can obtain rails and/or a shelf from any distributor, for example http://www.racksolutions.com/. The customer provided rails and rack must be on site prior to the first day of installation. Note: The customer is responsible for any rack screws.	

No.	Task	Refers to	Avaya recommendation	✓
8	Attach the server to the rack.	UG: <i>Installing the server into the rack</i>		
9	(Optional) Install the cable management arm.			
10	Connect the power cord(s).	SP: <i>Connecting the power cord to the power supply</i> UG: <i>Powering up and configuring the server</i>		
11	Power up the server.	UG: <i>Powering up and configuring the server</i>		

Chapter 3. Maintaining the HP DL360 G7 Server

Introduction

This chapter provides Message Networking specific information about maintaining the HP DL360 G7 Server.

Shutting down the Message Networking server

Prerequisites: Before you disconnect the server from the power source, make a note of which LEDs are lit, including the LEDs that are lit on the operation information panel, on the light path diagnostics panel, and LEDs inside the server on the system board.

If the server is already in operation, you must take it out of service to work inside the chassis. Schedule and publicize a time when the server will be out of operation.

1. Remove any disk from the **DVD drive**.
2. On the **Messaging Administration Interface**, select **Utilities > Shutdown Server**.
3. On the **Shutdown Server** page, click **Shutdown**.
4. At the shutdown warning message, click **OK**.
The server shuts down automatically. The shutdown process takes approximately 3 - 5 minutes.

5. Unplug all AC power cords from the back of the server.

Caution:

Physically unplug all AC power cords to completely remove power to the DL360 G7 server. Do not open the server without first unplugging AC power.

Turning on the Message Networking server

After the server is installed in the rack, turn it on to make sure that it works. Once you determine that it works, turn it off before you start any software installation procedure.

1. Plug one end of the power cord into the back of the power supply and the other end into a UPS or non switched outlet.
2. Press the power button on the front of the server. After you press the power button, the server takes approximately five minutes to initialize

Important: Avaya recommends that users not change the default uEFI/BIOS settings.

Connecting a modem

Connect a modem to a (RS-232 Serial) COM1 port or to any available, unused USB port. See the topic *Back of Server* in the *Installing the HP DL360 G7 Server* for the actual physical location of these ports.

Connecting to the LAN

Message Networking requires only one LAN connection. Connect the DL 360 G7 Server to the corporate LAN with a standard Ethernet cable to the **NIC 1 Connector Port**. See the topic *Back of Server* in the *Installing the HP DL360 G7 Server* for the actual physical location of this port.

Configuring a Dialogic analog port board

About the Dialogic analog port boards

Message Networking supports the following Dialogic analog port boards, one board per system:

- **D120JCTLSEW 12-port analog board.**
- **D41JCTLSEW 4-port analog board.**

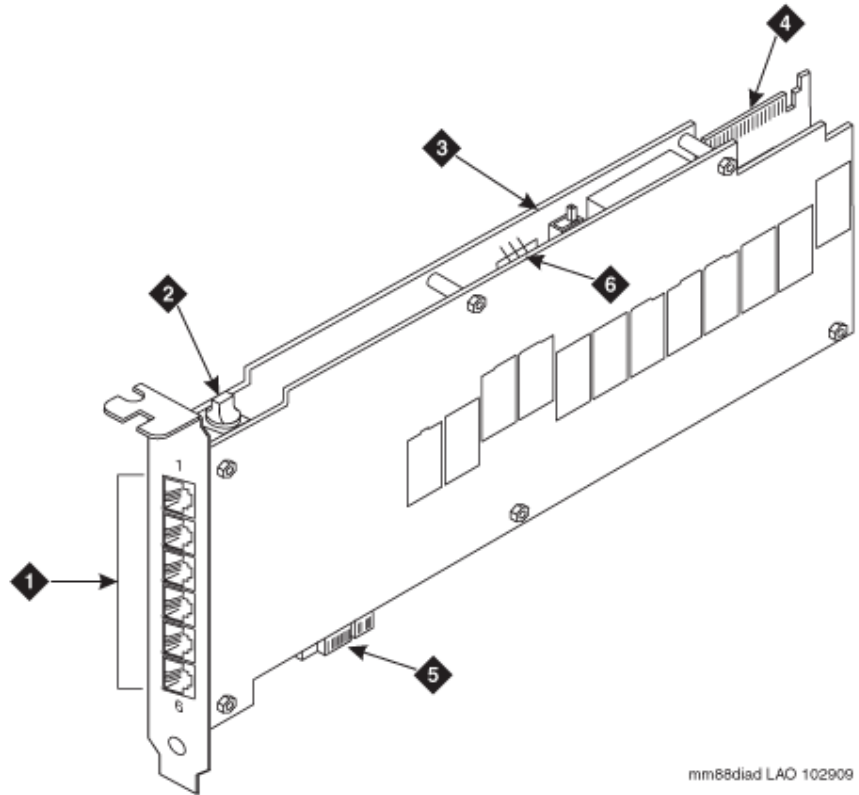
The **DL360 G7 server** supports PCIe Dialogic boards only. Some earlier platforms supported older PCIx Dialogic boards. Do not move Dialogic boards from any old server if they are not PCIe boards.

Note: Refer to the topic *Replacing internal components* (specifically PCIe riser boards) in the *Maintaining and Troubleshooting the HP ProLiant DL360 G7 Server Guide* for more information on replacing a PCIe board.

Important: If you are replacing a 4-port analog port board with a 12-port board, contact Avaya technical support.

Setting up the D120JCTLSEW 12-port analog board

D120JCTLSEW analog port board diagram



mm88diad LAO 102909

1	RJ14 connectors
2	SW 100
3	SW1
4	CT Bus Connector
5	PCI Bus Connector
6	Slot retainer bracket

Settings for D120JCTLSEW 12-port analog boards

To set the jumpers and switches for a new or replacement D120JCTLSEW 12-port analog board in the DL360 G7 server:

1. Set the unique board ID for the new board. Turn the SW100 rotary switch, located on the top of the board, to set the board ID according to the slot in which you are installing it. See the following table.

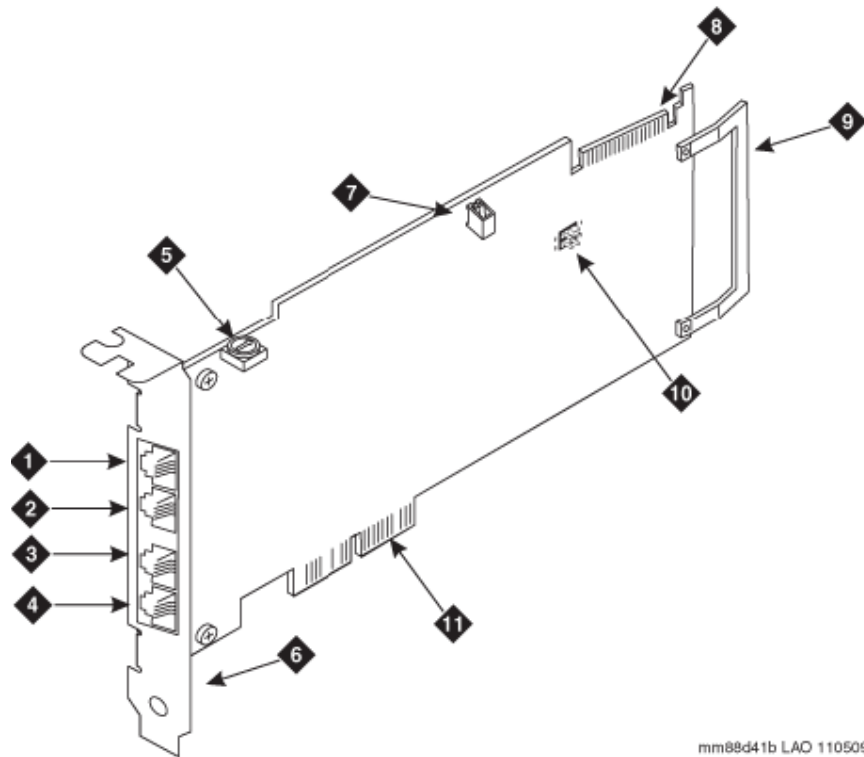
Board ID Number	PCIe slot number for a DL360 G7 server
0	1

Note: If you are replacing an existing board, verify that the ID of the new board matches the ID of the board that you removed by comparing the old board with the new board. Insert Dialogic port boards in the PCI slots starting from the outer edge of the chassis. For more information, see *Message Networking Maintenance guide*.

2. Set the hook-switch state of the new board to ON so that callers hear a busy signal when the board is not initialized. Use the SW1 switch, located at the top of the board, to set the hook-switch state. For more information on how to set the on-hook switch, see *Message Networking Maintenance guide*.

Setting up the D41JCTLSEW 4-port analog board

D41JCTLSEW analog port board diagram



mm88d41b LAO 110509

1	J1
2	J2
3	J3
4	J4
5	SW30
6	Rear bracket
7	SW4
8	CT Bus connector
9	Slot retainer bracket
10	JP2
11	PCIe bus connector

Settings for D41JCTLSEW 4-port analog board

To set the jumpers and switches for a new or replacement D41JCTLSEW 4-port analog board in the DL360 G7 server:

1. Set the unique board ID of the new board. Turn the SW30 rotary switch, located on the top of the board, to set the board ID according to the slot in which you are installing it. See the following table.

Board ID Number	PCIe slot number for a DL360 G7 server
0	1

Note: If you are replacing an existing board, verify that the ID of the new board matches the ID of the board that you removed by comparing the old board with the new board.

2. Set the hook-switch state of the new board to ON so that callers hear a busy signal when the board is not initialized. Use the red SW4 switch, located near the top of the board, to set the hook-switch state. For more information on how to set the onhook switch, see *Message Networking Maintenance guide*.

Replaceable Parts list

You can order these parts from Avaya for the HP DL360 G7:

Avnet SKU/ Quote#.	Material ID	SAP Material Desc	Description
503296-B21	700501182	DL360G7 SRVR PWR SUP 460W HE	Optional 460W Power Supply for HP DL360/DL380
507125-B21	700501248	DL360G7 SRVR 146GB 10K SAS 2.5" HDD	Optional 146GB 10K SAS HDD
512547-B21	700501249	DL360G7 SRVR 146GB 15K SAS 2.5" HDD	Optional 146GB 15K SAS HDD
462969-B21	700501324	DL360G7 650MAH RAID BATTERY	
500656-B21	700501318	DL360G7 SRVR 2GB MEM-ORY DIMM	
507127-B21	700501314	DL360G7 SRVR 300GB 10K SAS 2.5" HDD	

Avnet SKU/ Quote#.	Material ID	SAP Material Desc	Description
500658-B21	700501319	DL360G7 SRVR 4GB MEM- ORY DIMM	
512327-B21	700501312	DL360G7 SRVR AC PWR SUP 750W	
437573-B21	700501313	DL360G7 SRVR DC PWR SUP 1000W	
458492-B21	700501322	DL360G7 SRVR DUAL PORT 1GB NIC	
532068-B21	700501424	DL360G7 SRVR DVD-RW DRIVE W/BRKT	DVD-RW Drive Option (Include Bracket)
532149-001	700501425	DL360G7 SRVR FAN FRU	Replacement Fan