

Hitachi Global Link Manager

8.1.2-00 Release Notes

Contents

About this document.....	1
Intended audience.....	1
Getting help	1
About this release	2
Product package contents.....	2
New features and important enhancements.....	2
System requirements.....	3
Resolved problems	3
Known problems	4
Installation precautions	4
Usage precautions.....	4
Appendix	6
Copyrights and licenses.....	8

About this document

This document (RN-00HS239-27, February 2015) provides late-breaking information about Hitachi Global Link Manager 8.1.2-00. It includes information that was not available at the time the technical documentation for this product was published, as well as a list of known problems and solutions.

Intended audience

This document is intended for customers and Hitachi Data Systems partners who license and use Hitachi Global Link Manager.

Getting help

The Hitachi Data Systems Support Center staff is available 24 hours a day, seven days a week. To reach us, please visit the support website at <http://www.hds.com/services/support/> for current telephone numbers and other contact information. If you purchased this product from an authorized HDS reseller, contact that reseller for support.

About this release

This release is a major release that adds new features.

Product package contents

Medium	CD-ROM	Revision	Release Type
Software	Hitachi Global Link Manager	8.1.2-00	Full Package
Documents	Release Notes (this document)		
	Hitachi Command Suite Global Link Manager Installation and Configuration Guide	MK-95HC107-18	
	Hitachi Command Suite Global Link Manager Messages	MK-95HC108-17	
	Hitachi Command Suite Global Link Manager User Guide	MK-92HC214-00	
	Statement of Delivery and Usage Consent Form		

New features and important enhancements

For 8.1.2-00

#	New Features and Enhancements	Applicable Products	Applicable OS
1.	The number of times the same path can be used for extended load balancing (random I/O), which is now supported in HDLM v8.1.2, can be set from the Global Link Manager GUI.	-	-
2.	Icons are now displayed in the lists of CHA and HBA ports. The icons change to error icons when an error path is included, or when a valid path does not exist.	-	-
3.	Global Link Manager server now supports commands to easily and quickly perform the following steps in a cluster environment: (1) hcnds64clustersrvupdate - Register Hitachi Command Suite services into a resource group, or remove them from a resource group in a cluster environment. (2) hcnds64clustersrvstate - Bring Hitachi Command Suite services online, and enable failover. - Take Hitachi Command Suite services offline, and suppress failover.	Global Link Manager server	-

System requirements

#	New Features and Enhancements	Applicable Products	Applicable OS
4.	HGLM can now manage HDLM instances running on any of the platforms listed in the Applicable OS column.	-	<ul style="list-style-type: none"> - Red Hat Enterprise Linux 5.11 - Solaris 11.2 - VMware ESXi5.1 update3

System requirements

System requirements have been moved into a separate document, Hitachi Command Suite System Requirements (MK-92HC209). The document is presented in HTML format to be read in a browser. Open the ZIP file, and read ReadMe.txt for information about how to access the document.

Resolved problems

[8.1.2-00 Modifications]

The following problem has been corrected:

(1) Online help have Cross-Site Scripting vulnerabilities.

[Conditions]

The problem occurs when a malicious user sends an improper script to the Global Link Manager.

[Case ID]

n/a

(2) Alert notifications from the host fail to be sent via email.

[Conditions]

This problem occurs when one of the following combinations of settings for HGLM and the SMTP server are set.

O: True -: False

HGLM settings	The SMTP server reception port was changed to a value other than the default value of 25.	O	-	O	O
	The setting to use SMTP authentication was enabled.	-	O	O	O
SMTP server settings	The port number for the SMTP server is not 25.	O	-	O	O
	SMTP server authentication is required.	-	O	-	O

[Case ID]
HDS01489632

Known problems

None.

Installation precautions

Refer to the following manual:

Hitachi Command Suite Global Link Manager Installation and Configuration Guide Section 2.1 Types of Global Link Manager Installations - Preparing to Install Global Link Manager

Hitachi Command Suite Global Link Manager Installation and Configuration Guide Section 2.1 Types of Global Link Manager Installations - Installing Global Link Manager for the First Time

Hitachi Command Suite Global Link Manager Installation and Configuration Guide Section 2.1 Types of Global Link Manager Installations - Reinstalling Global Link Manager

Hitachi Command Suite Global Link Manager Installation and Configuration Guide Section 4.2 Types of Global Link Manager Cluster Installations - Installing a Global Link Manager Cluster with other Hitachi Storage Command Suite Clusters Installed

Usage precautions

Refer to the following manual:

Hitachi Command Suite Global Link Manager Installation and Configuration Guide Section 1.4 Operating in an IPv6 Environment

Hitachi Command Suite Global Link Manager Installation and Configuration Guide Section 3.1 Notes When Executing Commands

Hitachi Command Suite Global Link Manager Installation and Configuration Guide Section 3.2 Starting and Stopping Global Link Manager - Stopping Global Link Manager

Hitachi Command Suite Global Link Manager Installation and Configuration Guide Section 3.3 Changing the Time of the Machine on which Global Link Manager Is Installed

Hitachi Command Suite Global Link Manager Installation and Configuration Guide Section 3.4 Maintaining the Global Link Manager Database - Restoring the Global Link Manager Database

Hitachi Command Suite Global Link Manager Installation and Configuration Guide Section 3.4 Maintaining the Global Link Manager Database - Migrating the Global Link Manager Database

Hitachi Command Suite Global Link Manager Installation and Configuration Guide Section 3.4 Maintaining the Global Link Manager Database - Changing the Storage Location of the Global Link Manager Database(non-cluster)

Hitachi Command Suite Global Link Manager Installation and Configuration Guide Section 3.4 Maintaining the Global Link Manager Database - Changing the Storage Location of the Global Link Manager Database(for a cluster environment)

Hitachi Command Suite Global Link Manager Installation and Configuration Guide Section 3.5 Changing Global Link Manager Environment Settings

Hitachi Command Suite Global Link Manager Installation and Configuration Guide Section 3.5 Changing Global Link Manager Environment Settings - Changing Global Link Manager Server Settings

Hitachi Command Suite Global Link Manager Installation and Configuration Guide Section 3.10 Security Settings for User Accounts

Hitachi Command Suite Global Link Manager Installation and Configuration Guide Section 3.11 Setting a Warning Banner - Editing Message

Hitachi Command Suite Global Link Manager Installation and Configuration Guide Section 3.11 Setting a Warning Banner - Registering Message

Hitachi Command Suite Global Link Manager Installation and Configuration Guide Section 3.12 Generating Audit Logs - Editing the Environment Settings File for Audit Logs

Hitachi Command Suite Global Link Manager Installation and Configuration Guide Section 3.15 Setup for Linking with an External Authentication Server - Linking to the LDAP Directory Server

Hitachi Command Suite Global Link Manager Installation and Configuration Guide Section 3.15 Setup for Linking with an External Authentication Server - Linking to the RADIUS Server

Hitachi Command Suite Global Link Manager Installation and Configuration Guide Section 5.2 Security Settings for Communication between a Server and an LDAP Directory Server

Hitachi Command Suite Global Link Manager Installation and Configuration Guide Section 5.2 Security Settings for Communication between a Server and an LDAP Directory Server - Obtaining a Certificate for the LDAP Directory Server

Hitachi Command Suite Global Link Manager Installation and Configuration Guide Section 5.2 Security Settings for Communication between a Server and an LDAP Directory Server - Importing the Certificate to the Truststore File

Hitachi Command Suite Global Link Manager Installation and Configuration Guide Section 6.1 Overview of Hitachi Storage Command Suite Single Sign-On and User Integration Management

Hitachi Command Suite Global Link Manager Installation and Configuration Guide Appendix A. Notes on Using HDLM Version 5.8 or Later

Documentation

Available documents

Document name	Document number	Issue date
Hitachi Command Suite Global Link Manager Installation and Configuration Guide	MK-95HC107-18	February, 2015
Hitachi Command Suite Global Link Manager Messages	MK-95HC108-17	February, 2015
Hitachi Command Suite Global Link Manager User Guide	MK-92HC214-00	February, 2015
Hitachi Command Suite System Requirements	MK-92HC209-16	February, 2015

Note: The Hitachi Command Suite Global Link Manager User Guide replaces the Help files that were delivered as part of the Hitachi Command Suite Global Link Manager Help (MK-08HCH156-810). You can continue to access the help content from within the product GUI.

Documentation errata

None.

Appendix

Storage Systems that can be managed by Global Link Manager when DMP or HP-UX multipathing is used as multipath management software

An external storage device connected to hosts. The storage systems whose paths are managed by the multipath management software are subject to Global Link Manager management. When DMP or HP-UX multipathing is used as multipath management software, the storage systems that can be managed by Global Link Manager are as follows:

#	Applicable OS	MultiPath Management Software	Storage System Name
1	Windows Server 2003 R2(x86/x64) SP2, Windows Server 2008(IPF) noSP, Windows Server 2008 (x86/x64) noSP	DMP 5.1 (no AP), DMP 5.1 (AP1), DMP 5.1 (SP1)	AMS/WMS series, USP/NSC series, USPV/USPVM, HP XP10000/12000, HP XP20000/24000
2	HP-UX 11i v3 (IPF) (*) HP-UX running on a	HP-UX multipathing	Hitachi Universal Storage Platform,

Appendix

#	Applicable OS	MultiPath Management Software	Storage System Name
	virtual machine is not supported.		Hitachi Universal Storage Platform V, Hitachi Universal Storage Platform VM, Hitachi Virtual Storage Platform, Hitachi Virtual Storage Platform G1000, Hitachi Network Storage Controller NSC55, Hitachi Adaptable Modular Storage AMS200, Hitachi Adaptable Modular Storage AMS500, Hitachi Adaptable Modular Storage AMS1000, Hitachi Adaptable Modular Storage AMS2100, Hitachi Adaptable Modular Storage AMS2300, Hitachi Adaptable Modular Storage AMS2500, Hitachi Workgroup Modular Storage WMS100, SMS, HP StorageWorks XP10000 Disk Array, HP StorageWorks XP12000 Disk Array, HP StorageWorks XP20000 Disk Array, HP StorageWorks

Copyrights and licenses

#	Applicable OS	MultiPath Management Software	Storage System Name
			XP24000 Disk Array, HP StorageWorks P9500 Disk Array, HP XP7 Storage, SVS, Hitachi Unified Storage 110, Hitachi Unified Storage 130, Hitachi Unified Storage 150, Hitachi Unified Storage VM

Copyrights and licenses

© 2015 Hitachi, Ltd. All rights reserved.

No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying and recording, or stored in a database or retrieval system for any purpose without the express written permission of Hitachi, Ltd.

Hitachi, Ltd., reserves the right to make changes to this document at any time without notice and assumes no responsibility for its use. This document contains the most current information available at the time of publication. When new or revised information becomes available, this entire document will be updated and distributed to all registered users.

Some of the features described in this document might not be currently available. Refer to the most recent product announcement for information about feature and product availability, or contact Hitachi, Ltd., at <https://portal.hds.com>.

Notice: Hitachi, Ltd., products and services can be ordered only under the terms and conditions of the applicable Hitachi Data Systems Corporation agreements. The use of Hitachi, Ltd., products is governed by the terms of your agreements with Hitachi Data Systems Corporation.

Hitachi is a registered trademark of Hitachi, Ltd., in the United States and other countries. Hitachi Data Systems is a registered trademark and service mark of Hitachi, Ltd., in the United States and other countries.

Archivas, BlueArc, Essential NAS Platform, HiCommand, Hi-Track, ShadowImage, Tagmaserve, Tagmasoft, Tagmasolve, Tagmastore, TrueCopy, Universal Star Network, and Universal Storage Platform are registered trademarks of Hitachi Data Systems Corporation.

AIX, AS/400, DB2, Domino, DS8000, Enterprise Storage Server, ESCON, FICON, FlashCopy, IBM, Lotus, OS/390, RS6000, S/390, System z9, System z10, Tivoli, VM/ESA, z/OS, z9, zSeries, z/VM, z/VSE are registered trademarks and DS6000, MVS, and z10 are trademarks of International Business Machines Corporation.

All other trademarks, service marks, and company names in this document or website are properties of their respective owners.

Microsoft product screen shots are reprinted with permission from Microsoft Corporation.

Firefox is a registered trademark of the Mozilla Foundation.

HP-UX is a product name of Hewlett-Packard Company.

Itanium is a trademark of Intel Corporation in the United States and other countries.

Java is a registered trademark of Oracle and/or its affiliates.

Linux® is the registered trademark of Linus Torvalds in the U.S. and other countries.

Microsoft, Windows, Windows Server, Windows Vista, Windows XP and Windows 7 are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

Internet Explorer is either a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries.

Microsoft and Hyper-V are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

Kerberos is a name of network authentication protocol created by Massachusetts Institute of Technology.

Red Hat is a trademark or a registered trademark of Red Hat Inc. in the United States and other countries.

Solaris is either a registered trademark or a trademark of Oracle and/or its affiliates.

All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc., in the United States and other countries. Products bearing SPARC trademarks are based upon an architecture developed by Sun Microsystems, Inc.

Sun Microsystems is either a registered trademark or a trademark of Oracle and/or its affiliates.

SUSE is a registered trademark of Novell, Inc. in the United States and other countries.

UNIX is a registered trademark of The Open Group in the United States and other countries.

VERITAS is a trademark or registered trademark of Symantec Corporation in the U.S. and other countries.

VMware and ESX are registered trademarks or trademarks of VMware, Inc. in the United States and/or other jurisdictions.

Hitachi Global Link Manager includes the RSA BSAFE software of EMC Corporation.

This product includes software developed by the Apache Software Foundation (<http://www.apache.org/>).

This product includes software developed by Ben Laurie for use in the Apache-SSL HTTP server project.

This product includes software developed by Ralf S. Engelschall <rse@engelschall.com> for use in the mod_ssl project (<http://www.modssl.org/>).

This product includes software developed by Greg Stein <gstein@lyra.org> for use in the mod_dav module for Apache (http://www.webdav.org/mod_dav/).

This product includes software developed by the JDOM Project (<http://www.jdom.org/>).

This product includes software developed by IAIK of Graz University of Technology.

This product includes software developed by Daisuke Okajima and Kohsuke Kawaguchi (<http://relaxngcc.sf.net/>).

This product includes software developed by the Java Apache Project for use in the Apache JServ servlet engine project (<http://java.apache.org/>).

This product includes software developed by Andy Clark.

RSA is a registered trademark or a trademark of EMC Corporation in the United States and/or other countries.

BSAFE is a registered trademark or a trademark of EMC Corporation in the United States and/or other countries.