

Hitachi Tiered Storage Manager Software

7.0.1-02 Release Notes

Table of 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
Fixed Problems	3
Known Problems	4
Installation Precautions.....	4
Usage Precautions.....	4
Documentation	9
Copyrights and Licenses.....	9
System Requirements.....	12

About This Document

This document (RN-00HS279W March 29, 2011) provides late-breaking information about the Hitachi Tiered Storage Manager Software 7.0.1-02. 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 the Hitachi Tiered Storage Manager Software.

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 Web site for current telephone numbers and other contact information:

<http://www.hds.com/services/support/>. If you purchased this product from an authorized HDS reseller, contact that reseller for support.

About This Release

- This release fixes a variety of bugs.

Note:

When the full package of Device Manager 7.0.1-02 is applied, Tiered Storage Manager 7.0.1-02 is also applied automatically.

If the Service Pack of Tiered Storage Manager 7.0.1-02 is applied, be sure to apply the Service Pack of Device Manager 7.0.1-02. (in no particular order)

Product Package Contents

Medium	DVD-ROM	Revision	Release Type
Software	Hitachi Tiered Storage Manager Software	7.0.1-02	Full Package
Documents	Hitachi Command Suite Software User Guide	MK-90HC172-02	
	Hitachi Command Suite Software Configuration Reference Guide	MK-90HC175-02	
	Hitachi Command Suite Software Messages Guide	MK-90HC178-02	
	Hitachi Command Suite Software Installation and Configuration Guide	MK-90HC173-02	
	Hitachi Command Suite Software Tiered Storage Manager CLI Reference Guide	MK-90HC177-02	
	Hitachi Command Suite Software Help	MK-90HC179-02	

New Features and Important Enhancements

For 7.0.1-02

None.

For 7.0.1-01

None.

For 7.0.1-00

#	New Features and Enhancements	Applied products	Applied OS
---	-------------------------------	------------------	------------

Fixed Problems

1	Tiered Storage Manager corresponded to Device Manager 7.0.1-00.	Tiered Storage Manager server Tiered Storage Manager Web Client Tiered Storage Manager CLI	All (Note)
---	---	--	------------

Note: See System Requirements in the Hitachi Device Manager Software Release Notes for detail.

Fixed Problems

From 7.0.1-01 to 7.0.1-02

None.

From 7.0.1-00 to 7.0.1-01

#	Corrected Problems	Applied products	Applied OS
1	The following problem has been corrected: If any of the following operations are performed from the GUI, the window may does not finish displaying, and operations cannot be performed: (1) The Login window is displayed. (2) The Licenses dialog box is displayed. (3) The Version dialog box is displayed. (4) A license is registered.	Tiered Storage Manager GUI SER-70	All (Note)
2	The following problem has been corrected: If any of the following conditions is met, a Copy-on-Write Snapshot P-VOL cannot be set for a migration source volume, even when the pair status is PAIR: - ShadowImage pair volume - TrueCopy pair volume - Universal Replicator pair volume	Tiered Storage Manager server SER-71	All (Note)
3	The following problem has been corrected: After setting a Tuning Manager license, the KAIC15050-E message may be output, and the program cannot be logged into.	Tiered Storage Manager GUI SER-72	Windows

Note: See System Requirements in the Hitachi Device Manager Software Release Notes for detail.

From 7.0.0-01 to 7.0.1-00

#	Corrected Problems	Applied products	Applied OS
1	The following problem has been corrected:	Tiered	All (Note)

Known Problems

	In the GUI, an error occurs with the error message "The license key is not valid or is for a product that is not installed." when a license is registered, even if a license key for a product that is installed is specified.	Storage Manager GUI GUI-64	
2	The following problem has been corrected: Even though valid licenses are registered, the message "No license is registered. Register valid license keys or license key files." is displayed in the license registration dialog box of the GUI.	Tiered Storage Manager GUI GUI-65	All (Note)
3	The following problem has been corrected: In the license registration dialog box of the GUI, the displayed current capacity did not include the capacity of LDEVs that were not mainframe volumes or LUSE representative LDEVs.	Tiered Storage Manager GUI GUI-66	All (Note)

Note: See System Requirements in the Hitachi Device Manager Software Release Notes for detail.

Known Problems

- Restrictions on Migration:
When you search for USP V volumes by using *P-VOL's Migration Group* or *P-VOL's MU Number* as filter conditions, UNKNOWN might be shown as the volume type of Mainframe ShadowImage LDEVs in the search result. See the USP V manual *Hitachi Storage Navigator User's Guide* for details.

Installation Precautions

Refer to the following manual for installation prerequisites:

- Hitachi Command Suite Software Installation and Configuration Guide.*

Usage Precautions

Notes on environments in which Tuning Manager is installed

If either of the following is performed, the error message KATS20041-E may be displayed on the screen in which the Tuning Manager historical report dialog box can be displayed:

- In an environment in which a version of Tuning Manager server from 4.0 to earlier than 6.0 is installed, after the hcndsrep command is executed and the Tuning Manager server startup information is registered, Tuning Manager server is upgraded to version 6.0 or later.
- In an environment in which a version of Tuning Manager server from 6.0 to earlier than 6.2 is installed, the Tuning Manager server startup information is registered by executing the hcndsrep command.

Perform the procedure described below to delete all the Tuning Manager server startup information. This procedure can be performed only on the Tuning Manager server host.

Note that if the Device Manager that the Tuning Manager server is connecting to (the connection-target) and the Tuning Manager server itself are installed on different hosts, step 3 must be performed on the Device Manager host:

- 1) Start all the services of the Hitachi Command Suite products.
- 2) Stop the Tuning Manager server service by executing the following command.

In Windows:

```
cd <Common-Component-installation-folder>\bin
hcmdssrv /stop /server TuningManager
```

In Solaris:

```
cd /opt/HiCommand/Base/bin
hcmdssrv -stop -server TuningManager
```

- 3) Start the Device Manager service. For details on how to start the service, refer to the Device Manager manual.
- 4) Execute the following command, and then check the command result to see whether there is any row whose Display Name column contains no value. For the rows that have values in their Display Name columns, also check the values in each column.

In Windows:

```
cd <Common-Component-installation-folder>\bin
hcmdsrep /print /type TuningManager
/user <user-account-with-administrator-privileges> (*1)
/pass <password-for-the-user-account-with-administrator-privileges>
```

In Solaris:

```
cd /opt/HiCommand/Base/bin
hcmdsrep -print -type TuningManager
-user <user-account-with-administrator-privileges> (*1)
```

`-pass <password-for-the-user-account-with-administrator-privileges>`

(*1) Specify a user account for the Hitachi Command Suite products.

<Example of the hcmdsrep command for a Windows environment>

```
D:\> cd "D:\Program Files\HiCommand\Base\bin"
```

```
D:\Program Files\HiCommand\Base\bin> hcmdsrep /print /type TuningManager /user
system /pass ?????
```

Type	Display Name	URL
TuningManager	HTnM	http://htm-server:23015/TuningManager/login.do

When the connection target Device Manager and the Tuning Manager server are installed on different hosts, and no Tuning Manager server startup information is displayed when the hcmdsrep command is executed, perform the following procedure:

- a) Execute the following command to switch the server for managing the user accounts from the host where Device Manager is installed to another one where the Tuning Manager server is installed.

For Tuning Manager 6.1.0-00 or later

In Windows:

```
cd <Common-Component-installation-folder>\bin
hcmdsprmset /host 127.0.0.1
/port <port-number-of-the-Tuning Manager server> (*2)
```

In Solaris:

```
cd /opt/HiCommand/Base/bin
hcmdsprmset -host 127.0.0.1
-port <port-number-of-the-Tuning Manager server> (*2)
```

For Tuning Manager 6.0.0-00 to earlier than 6.1.0-00

In Windows:

```
cd <Common-Component-installation-folder>\bin
hcmdssup /host 127.0.0.1
/port <port-number-of-the-Tuning Manager server> (*2)
```

In Solaris:

```
cd /opt/HiCommand/Base/bin
hcmdssup -host 127.0.0.1
-port <port-number-of-the-Tuning Manager server> (*2)
```

(*2) The default value for the port number is 23015.

- b) Execute the hcmdsrep command again as described in 4) above to display and check the Tuning Manager server startup information.
- 5) Delete all the Tuning Manager server startup information by executing the hcmdsrep command as follows. Execute the hcmdsrep command once without the /displayname option, when there is any row whose Display Name column contains no value in the command execution result mentioned in 4). When there is any row that has a value in the Display Name column, specify that value for the /displayname option and execute the hcmdsrep command. When there are multiple rows that have values in their Display Name columns, execute the hcmdsrep command repeatedly for each row.

In Windows:

```
cd <Common-Component-installation-folder>\bin
hcmdsrep /delete /type TuningManager
[/displayname <displayname-column-value-displayed-in-step-4>]>
/user <user-account-with-administrator-privileges> (*3)
/pass <password-for-the-user-account-with-administrator-privileges>
```

In Solaris:

```
cd /opt/HiCommand/Base/bin
hcmdsrep -delete -type TuningManager
[-displayname <displayname-column-value-displayed-in-step-4>]>
-user <user-account-with-administrator-privileges> (*3)
-pass <password-for-the-user-account-with-administrator-privileges>
```

(*3) Specify a user account for Hitachi Command Suite products.

- 6) When the server that manages user accounts has been switched in 4), execute the following command to switch the account management server back to the host where the Device Manager is installed after the Tuning Manager server startup information is deleted.

For Tuning Manager 6.1.0-00 or later

In Windows:

```
cd <Common-Component-installation-folder>\bin
hcmdsprmset /host <host-name-or-IP-address-of-the-Device Manager-host>
/port <port-number-of-the-Device Manager > (*4)
```

In Solaris:

```
cd /opt/HiCommand/Base/bin
hcmdsprmset -host <host-name-or-IP-address-of-the-Device Manager-host>
-port <port-number-of-the-Device Manager> (*4)
```

For Tuning Manager 6.0.0-00 to earlier than 6.1.0-00

In Windows:

```
cd <Common-Component-installation-folder>\bin
hcmdssup /host <host-name-or-IP-address-of-the-Device Manager-host>
/port <port-number-of-the-Device Manager> (*4)
```

In Solaris:

```
cd /opt/HiCommand/Base/bin
hcmdssup -host <host-name-or-IP-address-of-the-Device Manager-host>
-port <port-number-of-the-Device Manager> (*4)
```

(*4) The default value for the port number is 23015.

7) Restart all the services of the Hitachi Command Suite products.

Documentation

Available Documents

Manual Name	Manual No.	Issue Date
Hitachi Command Suite Software User Guide	MK-90HC172-02	December. 2010
Hitachi Command Suite Software Configuration Reference Guide	MK-90HC175-02	December. 2010
Hitachi Command Suite Software Messages Guide	MK-90HC178-02	December. 2010
Hitachi Command Suite Software Installation and Configuration Guide	MK-90HC173-02	December. 2010
Hitachi Command Suite Software Tiered Storage Manager CLI Reference Guide	MK-90HC177-02	December. 2010
Hitachi Command Suite Software Help	MK-90HC179-02	December. 2010

Documentation Errata

Manual Name: *Hitachi Command Suite Software User Guide*

The description in "Prerequisites for migrating volumes" has been revised.

#	Before	After
1	<p>If the source volume is LUSE volume:</p> <ul style="list-style-type: none"> • Target volumes must be either all internal or all external volumes. • When the target volume is external, the volume must be in the same external storage system. • When the target volumes are external, the attributes of all the external volumes must be the same. • The RAID levels and drive types (SATA/non-SATA) of all the target volumes must be the same. 	<p>If the source volume is LUSE volume:</p> <ul style="list-style-type: none"> • Target volumes must be either all internal or all external volumes. - The emulation type, drive type, I/O suppression mode, cache mode and CLPR of all the target volumes must be the same. <p>To have Tiered Storage Manager automatically choose target volumes, the following conditions must be met:</p> <ul style="list-style-type: none"> - If the target volumes are external volumes, they must all be in the same external storage system. - The RAID level and SLPR of all the target volumes must be the same.

Copyrights and Licenses

Copyright © 2011 Hitachi Data Systems Corporation, ALL RIGHTS RESERVED

Notice: 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 Data Systems Corporation (hereinafter referred to as "Hitachi Data Systems").

Hitachi Data Systems reserves the right to make changes to this document at any time without notice and assumes no responsibility for its use. Hitachi Data Systems products and services can only be ordered under the terms and conditions of Hitachi Data Systems' applicable agreements. All of the features described in this document may not be currently available. Refer to the most recent product announcement or contact your local Hitachi Data Systems sales office for information on feature and product availability.

This document contains the most current information available at the time of publication. When new and/or revised information becomes available, this entire document will be updated and distributed to all registered users.

Hitachi Data Systems is a registered trademark and service mark of Hitachi, Ltd., and the Hitachi Data Systems design mark is a trademark and service mark of Hitachi, Ltd. All other brand or product names are or may be trademarks or service marks of and are used to identify products or services of their respective owners.

BSAFE is a registered trademark or trademark of RSA Security Inc. in the United States and/or other countries.

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

Java and JDK are registered trademarks of Oracle and/or its affiliates.

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

Microsoft Internet Explorer is a product name of Microsoft Corp.

Microsoft is a registered trademark of Microsoft Corp. in the United States and other countries.

Microsoft and Windows Server are registered trademarks or trademarks of Microsoft Corp. in the United States and other countries.

Mozilla is a trademark of the Mozilla Foundation in the United States and other countries.

RC2 is a registered trademark or trademark of RSA Security Inc. in the United States and/or other countries.

RC4 is a registered trademark or trademark of RSA Security Inc. in the United States and/or other countries.

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

Solaris is a registered 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 and Sun Microsystems are registered trademarks of Oracle and/or its affiliates.

ORACLE is either a registered trademark or a trademark of Oracle Corporation and/or its affiliates in the United States and/or other countries.

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

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

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

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

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/).

Portions of this software were developed at the National Center for Supercomputing Applications (NCSA) at the University of Illinois at Urbana-Champaign.

This product includes software developed by the University of California, Berkeley and its contributors.

This software contains code derived from the RSA Data Security Inc. MD5 Message-Digest Algorithm, including various modifications by Spyglass Inc., Carnegie Mellon University, and Bell Communications Research, Inc (Bellcore).

This product includes altered versions of software originally developed by Henry Spencer.

EMC and CLARiiON are registered trademarks of EMC Corporation

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

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

Other product and company names mentioned in this document may be the trademarks of their respective owners. Throughout this document Hitachi has attempted to distinguish trademarks from descriptive terms by writing the name with the capitalization used by the manufacturer, or by writing the name with initial capital letters. Hitachi cannot attest to the accuracy of this information. Use

of a trademark in this document should not be regarded as affecting the validity of the trademark.

System Requirements

See System Requirements in the *Hitachi Device Manager Software Release Notes*.