

Hitachi Tiered Storage Manager for Mainframe v8.1.4-00 Release Notes

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About this document

This document (MK-92HC208-04, April 2015) provides late-breaking information about Hitachi Tiered Storage Manager for Mainframe v8.1.4-00. 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 Tiered Storage Manager for Mainframe.

Getting help

The Hitachi Data Systems customer support staff is available 24 hours a day, seven days a week. To reach us, please visit the support website at

<https://portal.hds.com> 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 |
|-----------|---|---------------|
| Software | Hitachi Tiered Storage Manager for Mainframe | 8.1.4-00 |
| Documents | Hitachi Command Suite Tiered Storage Manager for Mainframe User Guide | MK-92HC207-03 |
| | Hitachi Command Suite Tiered Storage Manager for Mainframe Messages | MK-92HC210-03 |

New features and important enhancements

| # | Item | New Features and Enhancements |
|---|----------------------|---|
| 1 | Function enhancement | The BYPASS parameter was added to the KTIMPORT command. Specifying the parameter creates successfully a Tiering policy group definition file excluding non-Hitachi Dynamic Tiering volumes or volumes which do not exist in the disk configuration definition file. |

System requirements

Operating system requirements

Refer to "Prerequisites for HTSM for Mainframe" in the Hitachi Tiered Storage Manager for Mainframe User Guide.

| # | Operating System |
|---|-------------------|
| 1 | z/OS V1R10 - V2R1 |

Firmware levels

| # | Storage system | Required microcode version | Storage System Support Function |
|---|--|----------------------------|---------------------------------|
| 1 | Hitachi Virtual Storage Platform G1000 | 80-02-01 or later | 0x41 or later |
| 2 | Hitachi Virtual Storage Platform | 70-06-01-00/00 or later | 0x34 or later |

Prerequisite programs

Refer to "Prerequisites for HTSM for Mainframe" in the Hitachi Tiered Storage Manager for Mainframe User Guide.

| # | Program name | Notes |
|---|--|--|
| 1 | DFSMS™ | Standard OS component |
| 2 | ISPF | Standard OS component |
| 3 | TSO/E | Standard OS component |
| 4 | TSO/E REXX | Standard OS component |
| 5 | Security Server | To use the resource access control facility (RACF™) |
| 6 | IBM™ Library for REXX on zSeries™ Release 4 (FMID HWJ9140) or IBM Library for REXX on zSeries Alternate Library (FMID HWJ9143) | The REXX Alternate Library is included in standard OS component. |

Memory and disk space requirements

Refer to "Preparations before using HTSM for Mainframe" in the Hitachi Command Suite Tiered Storage Manager for Mainframe User Guide.

- Virtual memory requirements

The followings indicate the necessary user regions to run HTSM for Mainframe.

- For the user region of 16 MB or less
1,024 KB
- For the extended user region of 16 MB or more
 $4,000 \text{ KB} + (4 \times \text{number of volumes}) \text{ KB}$

- Disk space requirements

| Files to be installed | Required space (track) | Number of Directories |
|-----------------------|------------------------|-----------------------|
| HDSKSAMT | 15 tracks | 5 |
| HDSKLNKT | 45 tracks | 20 |
| HDSKLPAT | 1 track | 1 |
| HDSKPRCT | 1 track | 10 |
| HDSKEXET | 5 tracks | 10 |
| HDSKEXVT | 5 tracks | 10 |
| HDSKPNLT | 15 tracks | 200 |
| HDSKMSGT | 1 track | 5 |
| HDSKTABT | 1 track | 5 |

System requirements have been integrated into the document "Hitachi Command Suite System Requirements" (MK-92HC209). In this document, system requirements are presented in the form of requirements for each type of server, rather than the requirements for individual Hitachi Command Suite products.

Resolved problems

None

Known problems

| # | Problems |
|---|---|
| 1 | <p>Specify SMS storage group name without single quotation marks.</p> <p>The KTLOAD or the KTGETHDA command fails if the target disk configuration definition file has SMS storage group name enclosed in single quotation marks. The file can be created by the following three methods:</p> <ul style="list-style-type: none">- Execute the KTIMPORT command with the SCAN parameter specifying SMS storage group name enclosed in single quotation marks in a tiering policy CSV file.- Execute the KTSCAN command with the STORGRP parameter specifying SMS storage group name enclosed in single quotation marks, and execute the KTSTORE command.- Execute the KTDEMO00 sample script specifying SMS storage group name enclosed in single quotation marks in a dataset allocated to DD name for KTSCAN |

| | |
|---|--|
| 2 | <p>The value of the total used capacity shown in HTSM for MF excludes the reserved capacity for a DP pool with Full Allocation enabled volumes. For this reason, note when checking the following values:</p> <p>REXX variables</p> <ul style="list-style-type: none"> - <stem1>.LOCAL.SNnnnnn.CUxx.CCAxx.Used <p>ISPF panels</p> <ul style="list-style-type: none"> - Total field on the Tiering Policy Group Summary panel. - Total field on the Tiering Policy Group Volume List panel - %Used field or Total field on the Tiering Policy Group Pool List panel. - Total field on the Tiering Policy Group Storage Group List panel. - Total field on the Volume Status Detail panel. - Total field in the Current Relocation Information area on the Pool Status Detail panel. - Total field on the Tiering Policy Group Volume Status Detail panel. - Total field in the Current Relocation Information area on the Tiering Policy Group Pool Status Detail panel. <p>The following value is also evaluated without including Reserved Capacity in overall Capacity for a DP pool with Full Allocation enabled volumes.</p> <ul style="list-style-type: none"> - Pools exceeding threshold field on the Tiering Policy Group Summary panel. <p>You can check the used capacity and the reserved capacity on the Storage Navigator as follows.</p> <ul style="list-style-type: none"> - DP pool unit: Used and Reserved field on the Pools tab in the Pools window. - DP volume unit: Used and Reserved field on the Virtual Volumes tab of the target pool. <p>You can check if the Full Allocation is enabled as follows.</p> <ul style="list-style-type: none"> - Full Allocation field on the Virtual Volumes tab of the target pool. |
|---|--|

Installation precautions

Refer to "Installation and Setup" in the Hitachi Command Suite Tiered Storage Manager for Mainframe User Guide for full details on the installation of HTSM for Mainframe.

- Before the installation, ensure the required dataset capacity, the number of the directories in the distribution libraries and the target libraries.
- If HTSM for Mainframe and BC Manager exist in the same system, the User SVC in the newer version of either should be registered.

Version description

The main panel displays a version number of this product as follows:

- Version 8.1.4-00

A version displayed in the KTA400I message on the KTDSPENV command is as follows:

- Version 8.1.4-00

A version displayed on the KTENV command is as follows:

- Version 8.1.4-00(00)

A version displayed in the ISPF Setting Information panel and in the YKK001I on the KTINSCHK command is as follows:

- Version 8.1.4-00 (00)

In the "Hitachi Command Suite Tiered Storage Manager for Mainframe User Guide", replace CHKTnnn and Vnnnnnn as follows:

| # | In the manual | Replace with |
|---|---------------|--------------|
| 1 | CHKTnnn | CHKT809 |
| 2 | Vnnnnnn | V081400 |

User SVC version that corresponds to this product version

The User SVC version that corresponds to this product version is as follows:

- Version 7.5.0-00(00) or later

Usage precautions

HTSM for MF and BCM share the same SVC:

- You must compare the version of the currently enabled user SVC registered by Business Continuity Manager and the version of the prerequisite user SVC for Tiered Storage Manager for Mainframe, and then you must use the user SVC of the later version.
 - The prerequisite SVC is 7.5.0 or later.

- To confirm the version of the currently enabled user SVC, use the YKINSCHK command of Business Continuity Manager.
- If the confirmed user SVC version is old and does not satisfy conditions for the prerequisite user SVC version:
 - Use Business Continuity Manager to delete the user SVC, and then use Tiered Storage Manager for Mainframe to register it again.
- If the confirmed user SVC version satisfies conditions for the prerequisite user SVC version:
 - You can use the currently enabled user SVC.

Documentation

Available documents

| Document name | Document number | Issue date |
|---|-----------------|----------------|
| Hitachi Command Suite Tiered Storage Manager for Mainframe User Guide | MK-92HC207-03 | February, 2015 |
| Hitachi Command Suite Tiered Storage Manager for Mainframe Messages | MK-92HC210-03 | February, 2015 |

Documentation errata

| No | Guide Name | Location to be updated | Updates | |
|----|------------|---|---------|--|
| 1 | User Guide | 6 CLI commands REXX external routine details KTIMPORT Syntax | Before | KTIMPORT MSG(<i>stem-name-1</i>) PREFIX(<i>prefix</i>) POLICY(<i>policy-ID</i>) [SCAN] |
| | | | After | KTIMPORT MSG(<i>stem-name-1</i>) PREFIX(<i>prefix</i>) POLICY(<i>policy-ID</i>) [SCAN] [BYPASS] |
| 2 | | 6 CLI commands REXX external routine details KTIMPORT Parameters BYPASS | Before | None |
| | | | After | Specifying the parameter creates successfully a Tiering policy group definition file excluding non-Hitachi Dynamic Tiering volumes or the volumes which do not exist in the disk configuration definition file. |
| 3 | | 6 CLI commands REXX external routine details KTIMPORT Tip | Before | None |
| | | | After | For the storage group having non-Hitachi Dynamic Tiering volumes and Hitachi Dynamic Tiering volumes, specify the BYPASS parameter to create a Tiering policy group definition file. If not, the KTIMPORT command will fail without creating the file. |
| 4 | | | Before | None |

| | | | | |
|---|--|--|--------|---|
| | | | After | <p>KTZ032I message:</p> <p>When specified SCAN parameter, the number of discovered Hitachi storage-system devices is displayed after the range specified volumes in a tiering policy information CSV file are scanned.</p> <p>When specified BYPASS parameter, the number of devices includes non-Hitachi Dynamic Tiering volumes, but the number of devices in the tiering policy group definition file excludes non-Hitachi Dynamic Tiering devices.</p> |
| 5 | | | Before | None |
| | | | After | <p>When the following conditions are met and the KTIMPORT command fails in reading SMS storage group information, an error message will be displayed but processing will continue. When the command succeeds in creating the tiering policy group definition file, the return code will be 0 or 4, not 36.</p> <ul style="list-style-type: none"> - SCAN parameter was specified. - Name of the SMS storage group by using a wildcard character was specified. - There are both a storage group that defines volumes and a storage group that defines no volumes in the specified range. |
| 6 | | <p>6 CLI commands</p> <p>REXX external routine details</p> <p>KTIMPORT</p> <p>Return codes</p> <p>Table 6-8</p> <p>ROW: Return codes</p> <p>4</p> <p>COLUMN: Meaning</p> | Before | <ul style="list-style-type: none"> • No records were defined in the tiering policy information CSV file. <p>Writing to the tiering policy group definition file was not performed.</p> <ul style="list-style-type: none"> • A tiering policy group definition file was generated. In the file, the relocation priority for unsupported volumes was disabled. |
| | | | After | <ul style="list-style-type: none"> • No records were defined in the tiering policy information CSV file. <p>Writing to the tiering policy group definition file was not performed.</p> <ul style="list-style-type: none"> • A tiering policy group definition file was generated. In the file, the relocation priority for unsupported volumes was disabled. • The specified CSV file has non-Hitachi Dynamic Tiering volume, or a volume does not exist in the disk configuration definition file. The volume was skipped to continue processing. |

| | | | | |
|---|----------|---|--------|--|
| 7 | Messages | 1.Messages Messages starting with KT Description of KTD203E | Before | <p>Message ID KTD203E MSG SC=4 RC=4 (file rec# device)</p> <p>Message text No Tiering Policy Group is defined in the specified the tiering policy information CSV file.</p> <p>Description No tiering policy group is defined in the tiering policy information CSV file. A tiering policy group definition file was not created.</p> <p>file Name of the tiering policy information</p> |
| | | | After | <p>Message ID KTD203I MSG SC=4 RC=4 (file rec# device)</p> <p>Message text No Tiering Policy Group is defined in the specified the tiering policy information CSV file.</p> <p>Description No tiering policy group is defined in the tiering policy information CSV file. The tiering policy group definition file was not created as no effective record was found.</p> <p>File Name of the tiering policy information</p> |
| 8 | Messages | 1.Messages Messages starting with KT Description of KTD216W | Before | None |
| | | | After | <p>Message ID KTD216W MSG SC=4 RC=4 (file rec# device)</p> <p>Message text The specified volume does not exist in the disk configuration definition file.</p> <p>Description The specified volume is not in the disk configuration definition file. The volume was skipped to continue processing.</p> <p><file> The CSV file name where the warning was detected.</p> <p><rec#> Line number in the file <i>file</i> where the error was detected.</p> <p><device> One of the following is displayed.</p> <ul style="list-style-type: none"> - Device number - Volume serial number - Name of the SMS storage group |

| | | | | |
|----|----------|---|--------|--|
| 9 | Messages | 1.Messages Messages starting with KT Description of KTD217W | Before | None |
| | | | After | <p>Message ID KTD217W MSG SC=4 RC=4 (file rec# device)</p> <p>Message text The specified volume is not a tiering volume.</p> <p>Description The specified volume is not Hitachi Dynamic Tiering volume for Mainframe, or non-Hitachi Dynamic Tiering volume for Mainframe exists in the specified storage group. Non-Hitachi Dynamic Tiering volume for Mainframe was skipped to continue processing.</p> <p><file> Name of the tiering policy information CSV file where the error was detected.</p> <p><rec#> Number of the line in file <i>file</i> where the error was detected.</p> <p><device> One of the following is displayed.</p> <ul style="list-style-type: none"> - Device number - Volume serial number - Name of the SMS storage group |
| 10 | Messages | 1.Messages Messages starting with KT Description of KTD218W | Before | None |
| | | | After | <p>Message ID KTD218W MSG SC=4 RC=4 (file rec# storage-group-name)</p> <p>Message text No volumes belong to the specified storage group <storage-group-name>.</p> <p>Description No volume belongs to the specified storage group <i>storage-group-name</i>. The storage group was skipped to continue processing.</p> <p><file> Name of the tiering policy information CSV file where the error was detected.</p> <p><rec#> Number of the line in file <i>file</i> where the error was detected.</p> <p><storage-group-name> Name of the SMS storage group</p> |
| 11 | Messages | 1.Messages | Before | None |

| | | | | |
|----|----------|--|--------|--|
| | | <p>Messages starting with KT</p> <p>Description of KTD219W</p> | After | <p>Message ID</p> <p>KTD219W MSG SC=4 RC=4 (file rec# device)</p> <p>Message text</p> <p>The tiering volumes specified by the record do not exist.</p> <p>Description</p> <p>No volume of Hitachi Dynamic Tiering for Mainframe exists in the range specified record <i>rec#</i>. The target volume does not exist, or the target volume is not a volume of Hitachi Dynamic Tiering for Mainframe. The record <i>rec#</i> was skipped to continue processing.</p> <p><file></p> <p>Name of the tiering policy information CSV file where the error was detected.</p> <p><rec#></p> <p>Line number in the file <i>file</i> where the error was detected.</p> <p><device></p> <p>One of the following is displayed.</p> <ul style="list-style-type: none"> - Device number specified by using range specification. - Volume serial number specified by using wildcard characters. - Name of the SMS storage group specified by using wildcard characters. |
| 12 | Messages | 1.Messages | Before | None |

| | | | | |
|--|--|--|-------|---|
| | | <p>Messages starting with KT</p> <p>Description of KTD220W</p> | After | <p>Message ID</p> <p>KTD220W MSG SC=4 RC=4 (file rec# storage-group-name)</p> <p>Message text</p> <p>No volumes belong to the wildcard-designated storage group <storage-group-name>.</p> <p>Description</p> <p>No volume belongs to the specified storage group <i>storage-group-name</i> with wildcard characters. The storage group does not match the specified wildcard characters, or a volume is not defined in the matched storage group.</p> <p><storage-group-name></p> <p>The SMS storage group name specified by using wildcard characters.</p> <p><file></p> <p>The tiering policy information CSV file name in which the error was detected.</p> <p><rec#></p> <p>Line number in the file <i>file</i> where the error was detected.</p> |
|--|--|--|-------|---|

Abbreviations

| Abbreviation | Full Name |
|--------------------|--|
| HTSM for Mainframe | Hitachi Tiered Storage Manager for Mainframe |
| BC Manager | Hitachi Business Continuity Manager |
| VSP G1000 | Hitachi Virtual Storage Platform G1000 |
| VSP | Hitachi Virtual Storage Platform |

Conventions: KB and MB

This document uses the following conventions unless otherwise specified:

1 KB (kilobyte) is 1,024 bytes.

1 MB (megabyte) is 1,024² bytes.

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