

Hitachi File Services Manager 6.4.6-02 Release Notes

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About this document

This document (RN-90HDI013-60, March 2019) provides late-breaking information about Hitachi File Services Manager 6.4.6-02. 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 Vantara partners who license and use Hitachi File Services Manager.

Getting help

[Hitachi Vantara Support Connect](#) is the destination for technical support of products and solutions sold by Hitachi Vantara. To contact technical support, log on to Hitachi Vantara Support Connect for contact information: https://support.hitachivantara.com/en_us/contact-us.html.

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About this release

This release resolves multiple known problems.

Product Package Contents

Table 1. Product Package Contents

Medium	Product Name	Revision
DVD-R	Hitachi File Services Manager	6.4.6-02

New Features and Enhancements

None.

Manual Corrections

None.

Restrictions

- On the page of Task Management dialog, some keyboard operations may not be available. For example, choosing items from pull-down menu cannot be done from keyboard.
- In case user set the migration interval for 4 weeks with either of `arcmigset` or `arcmigedit` command, the operation you have done through [Task Edit] in migration task window will not be reflected to the settings.
- User cannot specify a character which consists of 4 bytes code in UTF-8 to following field.
 - [Task Comment] field in [Add Task] and [Edit Task]
 - [File name] field and [Directory path] field in policy information
 - Arguments of `arcmigset` and `arcmigedit` commands
- When combining with HCP, do not use symbols (other than alphabets and numbers) for a user name or password of HCP tenant administrator.
- By using HFSM 6.1.1 or later, you cannot manage HDI 5.4.1 and update from HDI 5.4.1 to any version. Please use HFSM 5.4.1 for updating to and managing HDI 5.4.1. In case you want to manage HDI nodes with HFSM 6.1.1 or later, please update to HDI 6.1.1 or later and do not update to HDI 5.4.1.
- When updating the node software from HFSM using Firefox, the screen may be frozen during the update. In this case, click [Refresh Tree] to update the information on the window, and then verify that the system version of both nodes is installed software version.
- When an HFSM is newly installed, if the path name of installation location contains a parenthesis and does not contain a space, an error with KAQM30012-E occurs and the installation fails. Install it to a folder that does not meet the above conditions.

Software Requirements

None.

Operating System Requirements

Table 2. Supported platforms for Hitachi File Services Manager management server

Operating Systems
Windows Server 2008 R2 Service Pack 1 <ul style="list-style-type: none">• Windows Server 2008 R2, Standard Edition• Windows Server 2008 R2, Enterprise Edition• Windows Server 2008 R2, Datacenter Edition

<p>Windows Server 2012</p> <ul style="list-style-type: none"> • Windows Server 2012 Datacenter • Windows Server 2012 Standard
<p>Windows Server 2012 R2</p> <ul style="list-style-type: none"> • Windows Server 2012 R2 Datacenter • Windows Server 2012 R2 Standard
<p>Windows Server 2016</p> <ul style="list-style-type: none"> • Windows Server 2016 Datacenter • Windows Server 2016 Standard

Table 3. Supported platforms for Hitachi File Services Manager management console

Operating Systems
<p>Windows 7 Service Pack 1</p> <ul style="list-style-type: none"> • Windows 7 Professional • Windows 7 Ultimate • Windows 7 Enterprise
<p>Windows 7 x64 Editions Service Pack 1</p> <ul style="list-style-type: none"> • Windows 7 Professional • Windows 7 Ultimate • Windows 7 Enterprise
<p>Windows 8.1</p> <ul style="list-style-type: none"> • Windows 8.1 • Windows 8.1 Enterprise • Windows 8.1 Pro
<p>Windows 8.1 x64 Editions</p> <ul style="list-style-type: none"> • Windows 8.1 • Windows 8.1 Enterprise • Windows 8.1 Pro

<p>Windows Server 2008 x64 Editions Service Pack 2 ^{#1}</p> <ul style="list-style-type: none"> • Windows Server 2008, Standard x64 Edition • Windows Server 2008, Enterprise x64 Edition • Windows Server 2008, Datacenter x64 Edition
<p>Windows Server 2008 Service Pack 2 ^{#1}</p> <ul style="list-style-type: none"> • Windows Server 2008, Standard Edition • Windows Server 2008, Enterprise Edition • Windows Server 2008, Datacenter Edition
<p>Windows Server 2008 R2 Service Pack 1</p> <ul style="list-style-type: none"> • Windows Server 2008 R2, Standard Edition • Windows Server 2008 R2, Enterprise Edition • Windows Server 2008 R2, Datacenter Edition
<p>Windows Server 2012</p> <ul style="list-style-type: none"> • Windows Server 2012, Datacenter • Windows Server 2012, Standard
<p>Windows Server 2012 R2</p> <ul style="list-style-type: none"> • Windows Server 2012 R2, Datacenter • Windows Server 2012 R2, Standard
<p>Windows 10</p> <ul style="list-style-type: none"> • Windows 10 Home • Windows 10 Enterprise • Windows 10 Pro • Windows 10 Education
<p>Windows 10 x64 Edition</p> <ul style="list-style-type: none"> • Windows 10 Home • Windows 10 Enterprise • Windows 10 Pro • Windows 10 Education
<p>Windows Server 2016</p>

- Windows Server 2016 Datacenter
- Windows Server 2016 Standard

#1: OS that does not support TLS1.1 and TLS1.2.

Required Web browser

Table 4. Supported Web browser for Hitachi File Services Manager management console

Web browser	Remark
Internet Explorer 10.0 #1, #4	32-bit, Desktop version
Internet Explorer 11.0 #2, #3	32-bit, Desktop version
Mozilla Firefox ESR 45.x #5	x86 version
Mozilla Firefox ESR 52.x #5	x86 version

#1: The version of the target management node should be Hitachi Data Ingestor 4.1.0-00 or later.

#2: The version of the target management node should be Hitachi Data Ingestor 4.2.0-00 or later.

#3: If an operation to open a different window or tab is performed, an unnecessary window may be opened concurrently. For the case, see the usage precaution.

#4: By changing the option setting of browser, TLS1.1 and TLS1.2 can be supported.

#5: The version of Hitachi File Services Manager should be 6.1.2-00 or later.

Required Programs for Processing Node

Hitachi Data Ingestor is required on the network node controllers.

Memory and Disk Space Requirements

The following table lists memory and disk space requirements for Hitachi File Services Manager:

Table 5. Hitachi File Services Manager Requirements

Program Name	Memory	Disk Space
Hitachi File Services Manager	2 GB	4 GB

Precautions

- 1) Hitachi File Services Manager version 6.4.2-00 and later cannot manage nodes with the software earlier than 6.4.2-00 installed. For the procedure to upgrade the node software, refer to "Updating software" in Hitachi Data Ingestor Cluster Administrator's Guide.
- 2) Precaution of install the related programs in the same computer as Hitachi File Services Manager

When installing the following programs into the same computer as Hitachi File Services Manager, upgrading is required to the following version:

- a) Hitachi Device Manager 8.5.2 or later.
 - b) Hitachi Compute Systems Manager 7.5.1-00 or later.
 - c) JP1/Automatic Operation 10-10 or later.
 - d) SVP software for VSP Gx00 series which can coexist with HFSM is version 83-03-01-XX/XX or later
- 1) When installing the following programs into the same computer as Hitachi File Services Manager, upgrading is required to the following version:

'Automatic LU creation' functionality is used to create an LU easily without considering the RAID group. Note the following points when you use this functionality:

- a) Do not share the storage subsystem with another HDI or SAN.
 - b) 'Automatic LU creation' cannot choose RAID group and disk drive to create an LU. Therefore, the following may occur:
 - i. A RAID group may unintentionally be created on the disk drive.
 - ii. An LU may unintentionally be created at the RAID group.
 - c) If you want to operate the system in a high performance or high load environment, use Storage Navigator Modular 2 to create RAID group and LU.
- 2) Precaution of update installation on that plugged into the Device Manager GUI environment

When the update installation is done to the environment that plugged into the Device Manager GUI, the plugged into the Device Manager GUI is released.

Therefore, please set the administrator authentication of Hitachi File Services Manager after installation has been done, if necessary.

- 3) Precaution of Migration Management

The management method of the HCP was changed to improve operability of the tenant management. When the migrating data to HCP has been used, either of the following setting is necessary.

- a) Register the tenant administrator account on HCP that the same name and same password as the data access account.
- b) Settings of the tenant administrator is required by using HCP Settings of Configuration Wizard.

4) Precaution of HCP Settings in Configuration Wizard

The namespace named system-backup-data is allocated automatically for Backups of the system construction information, and the information is backed up.

5) Precaution of update installation for Hitachi Data Ingestor earlier than 4.0.0-00

One tenant becomes available to use from several systems. When the migrating data to HCP had been used before update, please confirm to the HCP administrator that the namespace named system-backup-data is already created.

6) Usage precaution for Internet Explorer 11.0 as Management console

An operation to open different window or tab by a click of anchor or button on the window may cause an unnecessary window (such as blank or in transition window) to be opened concurrently. In this case, close the unnecessary window. If this problem persists, create a new Windows user account and then operate the browser with the new user. In addition, when the operating system of the management console is Windows Server 2012 R2, Windows 8.1 or Windows 10, white line under tab in dialogue, black line under the tab in the main console might be displayed, however those lines do not affect the operation of the management console.

7) Precaution when update installation

When a character string consisting of 65 or more characters is specified for --key-passwd as a password of private key for public key certificate prepared by administrator, access from a browser is disabled at update installation. For this, run the certctl command with --reset option specified to initialize the set certificate before the update installation to a version 6.1.1-00 or later.

During the course of update installation, below anomalies occur on HDI Single node and Cluster model in case the certificate is NOT initialized. After the completion of node0 update installation, node restart fails then HFSM access to the nodes becomes unavailable with spitting out KAQM20046-E message on HFSM screen. Please perform below procedure for the recovery.

1. Login to node1 via ssh and execute following steps.

- 1) Confirm the cluster node and resource group status as below by clstatus command.
 - a) Node status: node 0 is "INACTIVE", node1 is "UP"
 - b) Resource Group status: Resource groups of both nodes are running on node1 and show status "Online"
- 2) Confirm the HDI version is NOT updated, by versionlist command.
- 3) Initialize certificate by certctl command with reset option (--reset).

2. Login to node0 via ssh and execute following steps.
 - 1) Confirm the HDI version is updated, by versionlist command.
 - 2) Initialize certificate by certctl command with reset option (--reset).
 - 3) Start node0 by ndstart command.
 - 4) Confirm node0 status is "UP" by clstatus command.
3. Login to HFSM to perform following steps.
 - 1) Execute "Refresh Processing Node" to check connection error doesn't occur.
 - 2) Failover both resource groups to node0 from "Cluster Management" screen.
 - 3) Execute "Refresh Processing Node" to refresh the HFSM information.
 - 4) Execute "Update Software" from "System Software" pane to update node1.
 - 5) After the completion of update install, confirm HDI version of both nodes are up to date
 - 6) Both resource groups are running on node0. Failback one of the resource group whose default host node is node1.
- 8) Caution for WWW browser security setting

On the security setting in the Advanced tab on WWW browser connected to HDI or management server, clear check boxes for Use SSL2.0 and Use SSL3.0.

- 9) Caution for software update on HDI node version 6.1.0 or earlier

Default TLS version for the communication between the management server and the HDI is TLSv1.2 from HFSM 6.2.0. Therefore HFSM cannot communicate with a HDI 6.1.0 or earlier by default.

To perform software update on a HDI node whose version is 6.1.0 or earlier, first set the TLS version for the communication between the management server and the node in accordance with the procedure below. When the update installation for all nodes is complete, turn the TLS setting back to the previous one.

1. If user.conf exists in *Hitachi-Command-Suite-Common-Component-installation-folder*\conf folder of the management server, add a row. If it does not exist, newly create it with the content below.

```
ssl.protocol=TLSv1
```

2. Select **Stop - HFSM** from File Services Manager of Hitachi Command Suite in the **Start** menu of the management server to stop HFSM.
3. Select **Start - HFSM** from File Services Manager of Hitachi Command Suite in the **Start** menu of the management server to start HFSM.
4. Click **Refresh Processing Node** of HFSM to refresh the node.

5. Perform software update on node with HFSM. For the procedure to update the software, refer to "Updating software" page on 14-3 in Hitachi Data Ingestor Cluster Administrator's Guide.
6. When the software update is complete, turn back Hitachi-Command-Suite-Common-Component-installation-folder\conf\user.conf of the management server as it was before step 1. (If a row is added, delete the row. If a file is newly created, delete the file)
7. Select **Stop - HFSM** from File Services Manager of Hitachi Command Suite in the **Start** menu of the management server to stop HFSM.
If other Hitachi Command Suite products are installed, stop all HCS products.
8. Select **Start - HFSM** from File Services Manager of Hitachi Command Suite in the **Start** menu of the management server to start HFSM.
If other Hitachi Command Suite products are installed, start all HCS products.
9. Click **Refresh Processing Node** of HFSM to refresh the node.
- 10) Caution for creating a file system when On (Read/Write) is selected for Content sharing

The list of namespaces to select as a migration target HCP system in the **Create File System** dialog box includes namespaces that do not allow read/write access (the scenario is not applicable if you are creating a new namespace).
Make sure that the namespace you select allows read/write access.
Use the **Test Connection** button on the screen to ensure connection to the HCP system before creating a file system.

Known Problems

Not Applicable for this release.

Fixed Problems

- 1) Following defect has been fixed by Hitachi File Services Manager 6.4.6-02

Affected version: 02-01-00-00

The phenomenon: HFSM is not available.

The condition: This problem might occur when database reorganization is performed while starting or executing HFSM startup process.

The evasion plan: None.

The recovery plan: Please follow the steps below. If an error occurs when stopping or starting HFSM, restart the management server.

(a) Stop HFSM from the Start Menu.

(b) Start HFSM from the Start Menu.

2) Following defect has been fixed by Hitachi File Services Manager 6.4.6-02

Affected version: 02-01-00-00

The phenomenon: When HFSM installation fails due to the existence of a specific file on the OS drive of the management server, the cause of the failure cannot be determined.

The condition: It occurs when conditions below are all combined.

(1) Run the HFSM Installer.

(2) The following files exists.

OS-installation-drive:\Program

OS-installation-drive:\Program.exe

OS-installation-drive:\Program Files

OS-installation-drive:\Program Files.exe

OS-installation-drive:\Program Files\Common

OS-installation-drive:\Program Files\Common.exe

OS-installation-drive:\Program Files (x86)\Common

OS-installation-drive:\Program Files (x86)\Common.exe

The evasion plan: Rename or delete files described in "The condition".

The recovery plan: Rename or delete files described in "The condition".

3) Following defect has been fixed by Hitachi File Services Manager 6.4.6-02

Affected version: 6.2.0-00

The phenomenon: The operating information of J2EE server monotonically increases depending on the time-zone.

The condition: It occurs when conditions below are all combined.

- (a) Due to one of the following reasons, HFSM runs during the period of daylight-saving time.
 - (a-1) HFSM is started during the period of daylight-saving time.
 - (a-2) While HFSM is running, the time to utilize daylight-saving-time comes.
 - (a-3) While HFSM is running, the time-zone of a machine where HFSM is installed is changed to the one where the time to utilize daylight-saving time has come.
- (b) Settings below are changed by a factory instruction.

File: Hitachi-Command-Suite-Common-Component-installation-folder\uCPSB\CC\server\sysconf\sysconf.properties

Setting value: 8 or greater specified for ejbserver.management.stats_file.num

* The problem does not occur with the default setting.

The evasion plan: Change the setting back to the factory specified one.

The recovery plan: Stop the HFSM service, delete the CVS file created in the folder below, and then start HFSM.

Hitachi-Command-Suite-Common-Component-installation-folder\uCPSB\CC\server\public\ejb\FileServicesManager\stats

4) Following defect has been fixed by Hitachi File Services Manager 6.4.6-02

Affected version: 02-02-01-00

The phenomenon: The common vulnerability with identifiers below may cause adverse impact.

CVE-2018-2633/CVE-2018-2582/CVE-2018-2618/
CVE-2018-2629/CVE-2018-2657/CVE-2018-2599/
CVE-2018-2678/CVE-2018-2663/CVE-2018-2579/
CVE-2017-3736

The condition: It may occur when a request from a malicious user is received.

The evasion plan: None.

The recovery plan: None.

Documents

In addition to the help system, Hitachi File Services Manager ships with the following:

- Hitachi Data Ingestor Installation and Configuration Guide
- Hitachi Data Ingestor Cluster Administrator's Guide
- Hitachi Data Ingestor CLI Administrator's Guide
- Hitachi Data Ingestor Error Codes
- Hitachi Data Ingestor Cluster Troubleshooting Guide
- Hitachi Data Ingestor Cluster Getting Started Guide

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