

Virtuo Mediation 4.0

Lucent IMS HSS Fix Pack v1.0.0.0 Release Notes

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1 About this Documentation

1.1 About this guide

This guide provides the technical specifications and fixes for Lucent IMS HSS version v1.0.0.0 mediation package.

1.2 Audience

This guide contains information that is useful to workflow developers and administrator of the Lucent IMS vendor mediation packages.

1.3 Required Skills and Knowledge

This guide assumes you are familiar with the following:

- Sun Microsystems Solaris operating system
- Oracle database software
- Microsoft Windows operating systems

This guide also assumes that you are familiar with your company's network and with procedures for configuring, monitoring, and solving problems on your network.

2 Product Information

2.1 Package Contents

This mediation pack has the following name:

```
1.0.0.0-TIV-VM-LucentIMSHSS_IF0001.tar
```

This mediation pack is made up of the following files:

1. The Mediation Pack Workflow

```
1.0.0.0-TIV-VM-LucentIMSHSS_IF0001.zip
```

2. The uncompress script

```
Lucent_IMS_HSS_uncompress.sh
```

2.2 New Features

The Lucent IMS vendor mediation package support the HSS (cpio bundled HCF and HDF A-type XML) data type.

2.3 Defects Fixed

None.

2.4 Known Problems

2.4.1 Error message is shown twice for SFTP Distribution agents (SEAd62417).

Description : If the SFTP Distribution Agent encounters situation where it cannot connect to the target server, it will abort the workflow execution and the error message will be shown twice. This error can only be seen in Workflow Monitoring Mode.

Impact : Virtuo Mediation administrators might get confusing error message.

Workaround: None.

2.4.2 Restriction on the length of file and directory name in Archiving Forwarding Agent (SEAd62832).

Description : If the combination of the file name and the directory name (as defined in an Archive Profile) exceeds 256 characters in length, the Archiving Forwarding Agent of an instance workflow will be aborted during execution.

Impact : Workflow instance will abort and files will fail to be transferred.

Workaround: Decrease the Base Directory length of the Archive profile or increase the size of the FINAL_FILENAME column of the ARCHIVE_ENTRIES table in the database.

2.4.3 Incorrect percentage calculation for file distribution is produced in the reporting html (SEAd67441).

Description : The file distribution percentage is wrongly calculated in the report generation script. Currently, files with status codes 0 and 4 are categorized as 'Files Successfully Distributed to Destination' while files with status codes 1, 2, 3, 5 and 6 are categorized as 'Files Unsuccessfully Distributed to Destination'.

The correct categorization is supposed to be; 0, 2, 3 = 'Successfully Distributed' and 1, 4, 5 and 6 = 'Unsuccessfully Distributed'.

The list of status codes can be viewed here:

CODE DESCRIPTION

0	Successful collection and distribution
1	Missing expected file
2	Filesize exceeds expected filesize limits
3	Filesize less then expected filesize limits
4	Filesize is ZERO
5	Invalid filename or unresolved file identifier
6	Collected file too old to be distributed (MAX_AGE)

Impact : The html report will produce incorrect percentage values.

Workaround: None.

3 Installation

3.1 Pre-requisite Requirements

Prior to the installation of this mediation package, the following must be installed on the system:

1. APL Code
 - a. `apl.Cingular.CW_Generic_Constants`
 - b. `apl.Cingular.CW_Generic_Helper`
 - c. `apl.Cingular.CW_Audit_Lucent_UMTS_Helper`
2. Audit Profiles
 - a. `Cingular.Lucent_UMTS_TRX`
3. Collection Strategy
 - a. `Cingular.Lucent_IMS`
4. Archive Profiles
 - a. `Cingular.Archive_Lucent_UMTS_Files`

3.2 Installing the Package

3.2.1 Pre Installation

Preparing uncompress script

1. Login into the Virtuo Mediation Platform server as `mzadmin` user.
2. Change the directory to the Virtuo Mediation Platform Server's scripts path;
`$ cd /home/mzadmin/scripts`
3. Copy the `Lucent_IMS_HSS_uncompress.sh` into Virtuo Mediation Execution Context Server's scripts path. Configure the following settings accordingly and make sure that the directories specified exist:

Parameter	Description
<code>BASE_DIR</code>	Base directory of the spool area where all the Lucent IMS HSS files are going to be processed. e.g <code>/home/mzadmin/spool/Lucent_IMS/HSS</code>
<code>INPUT_DIR</code>	A spool directory specific to each implementation of workflow instances. Normally in the form of the

	<p>OSS/OMCH Name or IP, and is constructed using the combination of the BASE_DIR. (\$1 is a parameter passed to the script, to identify the unique instance ID, which is normally the IP of the OSS/OMCH)</p> <p>Therefore, the full path name should be : /home/mzadmin/spool/Lucent_IMS/HSS/10.110.10.10/in e.g \$BASE_DIR/\$1</p>
--	---

3.2.2 Installation

Installing Mediation Pack

1. Ensure that the Virtuo Mediation platform is up and running. Otherwise, run the following:
 - a. Logon to the server where Virtuo Mediation 4.0 is installed.
 - b. Issue the command `mzsh startup platform` to start the platform.
 - c. Issue the command `mzsh desktop` to start the GUI.
 - d. Log into the GUI as mzadmin.
2. Import workflow template.
 - a. Untar the mediation pack, run;

```
tar -xvf 1.0.0.0-TIV-VM-LucentIMSHSS_IF0001.tar
```

Note: If you're using X Windows client, untar it onto VM server. If you're using Windows client, untar it onto your Windows desktop.
 - b. Select Tool → System Importer
 - c. Select 'Browse' and locate the file 1.0.0.0-TIV-VM-LucentIMSHSS_IF0001.zip un-tarred from step 3a.
 - d. Select Open → OK
 - e. Select 'Import'
 - f. Select 'View Log' button to view the result of the import.

3.2.3 Post Installation

There are 2 workflow templates, 1 Collection Strategy Profile, 1 Archive Profile and 1 Audit Profile.

The Templates are:

- ◆ Templates.Lucent_IMS_HSS_Collection
- ◆ Templates.Lucent_IMS_HDF_HCF_Template

Lucent IMS HSS (Collection WF) New Instance Configurations

This section specifies the steps required to configure the workflow required to process Lucent IMS HSS data.

To create a new processing workflow instance for the Lucent IMS HSS, follow these steps

1. Log in to Virtuo Mediation Desktop as mzadmin user.
2. Go to Configuration → Workflow → File → New Template Instance.
3. On the 'Workflow Selection' screen, click on the 'Templates' tree listing. Select 'Templates.Lucent_IMS_HSS_Collection'. Click 'OK'.
4. Double click and configure the Input Collection Agent according to the specification of your environment. Please refer to Appendix A, ESFTP Collection Agent for default configurations. Click OK when you are done. If error occurs at this point, the steps in Appendix A, ESFTP Collection Agent (Collection Strategy Correction) section should be followed.
5. Double click on the MZ disk forwarding agent and change the configuration to reflect your environment. Please refer to Appendix A, Disk Forwarding Agent for default configurations. Click OK when you are done.
6. In order to schedule the WF, please follow these steps:
 - a. Open the instance workflow that you have just created and click on the 'Preferences' icon.
 - b. Go to the 'Day Plans' tab under the 'Schedule Criteria' area and click on the 'Add' icon.
 - c. Schedule the workflow instance accordingly.
 - d. Click on the 'OK' button, save and exit the workflow preferences.
7. Click on the 'Save As' button and enter the correct workflow name together with the folder location.
8. Go to Inspection → Workflow Manager, select the WF you just scheduled → Edit → Activate.

Lucent IMS HSS Uncompress Script New Task Configurations

Not required as the script will be executed as an After Treatment in the Collection WF.

Lucent IMS HSS (Forwarding WF) New Instance Configurations

This section specifies the steps required to configure the workflow required to forward Lucent IMS HSS data to Prospect.

To create a new forwarding workflow instance for the Lucent IMS HSS, follow these steps

1. Log in to Virtuo Mediation Desktop as mzadmin user.
2. Go to Configuration → Workflow → File → New Template Instance.
3. On the 'Workflow Selection' screen, click on the 'Templates' tree listing. Select 'Templates.Lucent_IMS_HDF_HCF_Template'. Click 'OK'.
4. Double click and configure the Coll_1 collection agent according to the specification of your environment.
5. Make sure that the Filename regular expression is defined correctly to match your input file.
6. The forwarding workflow can collect data either directly from the origin server (OMCH) or from the INPUT_DIR where it contains the uncompressed data, processed from the Collection WF. (Forwarding WF only process

uncompressed HSS files) Depending whether the HSS data files are compressed or not, the files are collected correspondingly.

- a. Collect data directly from OMCH server;
 - i. Set the Coll_1 Collection Agent to follow the default settings in Appendix A, ESFTP Collection Agents.
 - ii. Follow step 6 in the Collection WF, stated in previous step, for scheduling the WF.
- b. Collect data from local MZ directory (INPUT_DIR).
 - i. In 'Advance' tab, set the Collection Strategy to "None".
 - ii. 'Advanced Settings' should follow the default settings in Appendix A, ESFTP Collection Agents.
 - iii. In 'Source' tab, set the Directory to suit your environment and set the Filename as step 5.
 - iv. 'After Collection' should be set to 'Remove'. Click OK when you are done.
 - v. In order to schedule the WF, please follow these steps:
 1. Open the instance workflow that you have just created and click on the 'Preferences' icon.
 2. Go to the 'Event Triggers' tab under the 'Schedule Criteria' area and click on the 'Add' icon.
 3. Add new 'Event Chain Trigger'.
 4. In the 'Event Type', select the 'Workflow State Event'. Set the "workflowName" variable to the collection workflow instance and "workflowState" variable to 'Stopped'.
 5. Click on the 'OK' button, save and exit the workflow preferences.
7. Double click on the InstanceData processing agent. Modify these values to match your environment.
 - a. OSSID
 - b. OMCHName
 - c. market
 - d. region
8. Double click on the Dist_1 (Prospect) forwarding agent and change the configuration to reflect your environment. Please refer to Appendix A, SFTP_Vallent Forwarding Agent for default configurations. Click OK when you are done.
9. Click on the 'Save As' button and enter the correct workflow name together with the folder location.
10. Go to Inspection → Workflow Manager, select the WF you just scheduled → Edit → Activate.

Appendix A

This section explains about the default configuration values for ESFTP Collection Agents, ESFTP Collection Agents (Collection Strategy Correction), Disk Forwarding Agent, and SFTP_Vallent Forwarding Agents. Take note that these are default values and should be configured accordingly if they do not suit your environment.

ESFTP Collection Agents

‘Source’ tab

Duplicate Collection Filter

- Window Size should be set to 600.
- ‘Block Older’ check box is ticked.

New File Check

- ‘Timeout (minutes)’ text area should be populated with value 1

‘Advanced’ tab

Collection Strategy set to Cingular.Lucent_IMS

Advanced Settings

- ‘Port’ text area should be populated with value 22
- ‘Time out (secs)’ text area should be populated with value 600
- ‘Accept New Host Keys’ check box is ticked.

ESFTP Collection Agents (Collection Strategy Correction)

‘Advanced’ tab

Collection Strategy set to Cingular.Lucent_IMS

Advanced Settings

- ‘Port’ text area should be populated with value 22
- ‘Time out (secs)’ text area should be populated with value 600
- ‘Accept New Host Keys’ check box is ticked.

‘Source’ tab

File Information

- Set the ‘Directory’ to suit your environment.
- Add ‘Regular Expression’ as;

^D[0-9]{8}.[0-9]{4}-([0-9]{8})?[0-9]{4}_H.SubNetwork=.*

- Tick the 'Enabled' checkbox.

Duplicate Collection Filter

- Window Size should be set to 600.
- 'Block Older' check box is ticked.

New File Check

- 'Timeout (minutes)' text area should be populated with value 1

Disk Forwarding Agents

'Disk' tab

File Information

- 'Directory' should direct to the INPUT_DIR
- No Compression is selected

After Treatment

- 'Command' should contain the path to the uncompress script.
- 'Arguments' should contains the INPUT_DIR

Produce Empty Files

- The 'Produce Empty Files' checkbox should be ticked.

'Filename Template' tab

Value should be set to 'Input.Source Filename'

SFTP_Vallent Forwarding Agents

'Advanced' tab

- 'Port' text area should be populated with value 22
- 'Timeout (sec)' text area should be populated with value 600 (secs)
- 'Accept New Host Keys' check box is ticked.

'Backlog tab

- 'Enable Backlog' check box is ticked
- 'Max Size'; 'Type' is set to Files; 'Size' text area populated with value 10000.

- 'Processing Order' is set to FIFO
- Duplicate File Handling is set to 'Overwrite'.

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