

Release Notes

Virtuo Mediation 4.0 for Lucent UMTS Call Server Fix Pack v1.0.0.0

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Summary of Changes:

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- editorial, formatting and spelling
- clarification
- document structure

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Changes to this document are summarized in the following table in chronological order.

Version	Date	Short Description
0.1	31-Dec-2008	Initial Version, Draft

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1 About this Documentation

1.1 About this guide

This guide provides the technical specifications and fixes for Lucent UMTS Call Server 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 UMTS 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-LucentUMTSCallServer-IF0001.tar
```

This mediation pack is made up of the following files:

1. The Mediation Pack Workflow

```
1.0.0.0-TIV-VM-LucentUMTSCallServer-IF0001.zip
```

2.2 New Features

The Lucent UMTS vendor mediation package support the collection of three types of Call Server 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 Backup

This section specifies the steps required to perform backup for Lucent UMTS Call Server package. To create an export file, follow these steps;

1. Log in to Virtuo Mediation Desktop as user *mzadmin*.
2. Go to Inspection → Workflow Manager.
3. Look for template 'Templates.Lucent_UMTS_CALL_SERVER'.
4. Deactivate all available workflows listed under this template by using the 'Deactivate' icon and close the Workflow Manager window.
5. Go to Tool → System Exporter
6. In the 'System Exporter' window, select drop-down menu 'Edit' and uncheck option 'Select Dependencies'.
7. In the 'Output Target' section, click on the 'Browse' button and specify a file name.
8. In the 'Available Entries' section, double click on Workflow → Workflow until you see the list of all the workflows available.
9. Check on 'Templates.Lucent_UMTS_CALL_SERVER'.
10. Click on 'Export' button. Click on the 'Close' button when you get the 'Export finished' notification.
11. Click on the 'View Log' button to view the result of the export.

3.2 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_Helpers
 - c. apl.Cingular.CW_Audit_Lucent_UMTS_Helpers
2. Audit Profiles
 - a. Cingular.Lucent_UMTS_TRX
3. Collection Strategy
 - a. Cingular.Lucent_UMTS_Call_Server

4. Archive Profiles
 - a. Cingular.Archive_Files

3.3 Installing the Package

3.3.1 Pre Installation

None

3.3.2 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-LucentUMTSCallServer-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-LucentUMTSCallServer-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.

3.3.3 Post Installation

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

The Template is:

- ◆ Templates.Lucent_UMTS_CALL_SERVER

Lucent UMTS CALL SERVER (Processing WF) New Instance Configurations

This section specifies the steps required to configure the workflow required to process Lucent UMTS Call Server data.

To create a new processing workflow instance for the Lucent UMTS Call Server, 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_UMTS_CALL_SERVER'. Click 'OK'.
4. Double click and configure the ESFTP_1 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 Prospect disk forwarding agent and change the configuration to reflect your environment. Please refer to Appendix A, SFTP_Vallent Forwarding Agents for default configurations. Click OK when you are done.
6. Double click on the Vision disk forwarding agent and change the configuration to reflect your environment. Please refer to Appendix A, SFTP_Vallent Forwarding Agents for default configurations. Click OK when you are done.
7. 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.
8. Click on the 'Save As' button and enter the correct workflow name together with the folder location.
9. Go to Inspection → Workflow Manager, select the WF you just scheduled → Edit → Activate.

4 Un-installation

4.1 Restoring the package

Steps 1 – 7 specified in this section can only be performed if steps 1 – 11 in section 3.1 have been completed. For complete deletion of the package, go straight to section 4.2.

1. Login to Virtuo Mediation Desktop as user “mzadmin”.
2. Go to Inspection → Workflow Manager and deactivate all workflows for template ‘Templates.Lucent_UMTS_CALL_SERVER’
3. Go to Tools → System Importer.
4. Click on the browse button, select the filename under the directory that you have specified in section 3.3, step 7 and click Open.
5. Click OK on the pop-up Information screen.
6. Click Import and view the log for any errors.
7. Go to Inspection → Workflow and reactivate all workflow instances that have been deactivated in step 2.

4.2 Removing the package

This section specifies the steps required to remove the Lucent UMTS Call Server package.

To remove the Lucent UMTS Call Server, follow these steps;

8. Log in to Virtuo Mediation Desktop as mzadmin user.
9. Go to Inspection → Workflow Manager.
10. Look for template ‘Templates.Lucent_UMTS_CALL_SERVER’.
11. Deactivate all available workflows listed under this template by using the ‘Deactivate’ icon and close the Workflow Manager window.
12. Go to Inspection → Configuration Browser
13. Select Lucent_UMTS_Call_Server folder. Select all instances.
14. Right click and choose ‘Delete’ from the menu, or press ‘Delete’ button on the keyboard.
15. Select Templates → Lucent_UMTS_CALL_SERVER.
16. Repeat step 7 to remove the template.

Appendix A

This section explains about the default configuration values for ESFTP Collection Agents, ESFTP Collection Agents (Collection Strategy Correction), 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 2000.
- ‘Block Older’ check box is ticked.

New File Check

- ‘Timeout (minutes)’ text area should be populated with value 5.

‘Advanced’ tab

Collection Strategy set to Cingular.Lucent_UMTS_Call_Server

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_UMTS_Call_Server

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’ (Regex) for file collection. For example;

Regex 1	<code>^A[0-9]{8}.[0-9]{4}[+-][0-9]{4}-[0-9]{4}[+-][0-9]{4}_cn\w*SubNetwork\w*ManagedElementces-.*</code>
Regex 2	<code>^A[0-9]{8}.[0-9]{4}[+-][0-9]{4}-[0-9]{4}[+-][0-9]{4}_SubNetwork=\w*,ManagedElement=ces-.*</code>
Regex 3	<code>^A[0-9]{8}.[0-9]{4}[+-][0-9]{4}-[0-9]{4}[+-][0-9]{4}_SubNetwork=\w*,SubNetwork=\w*,ManagedElement=ces-.*</code>
Regex 4	<code>^A[0-9]{8}.[0-9]{4}[+-][0-9]{4}-[0-9]{8}.[0-9]{4}[+-][0-9]{4}_cn\w*SubNetwork\w*ManagedElementces-.*</code>
Regex 5	<code>^A[0-9]{8}.[0-9]{4}[+-][0-9]{4}-[0-9]{8}.[0-9]{4}[+-][0-9]{4}_SubNetwork=\w*,ManagedElement=ces-.*</code>
Regex 6	<code>^A[0-9]{8}.[0-9]{4}[+-][0-9]{4}-[0-9]{8}.[0-9]{4}[+-][0-9]{4}_SubNetwork=\w*,SubNetwork=\w*,ManagedElement=ces-.*</code>

- Tick the 'Enabled' checkbox for any regex as required.

Duplicate Collection Filter

- Window Size should be set to 2000.
- 'Block Older' check box is ticked.

New File Check

- 'Timeout (minutes)' text area should be populated with value 5.

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'.

'FilenameTemplate' tab

- Ensure the 'Filter_Files.Target Filename' MIM defined value is selected.
- Add '.gz' User Defined value if 'Gzip' Compression in 'Target' tab is selected.

- If 'No Compression' is selected in the 'Target' tab, remove '.gz' from the entry.
- Refer Figure 1 below;

SFTP_Vallent		Filename Template			
	Value	Size	Padding	Alignment	Separator
	Filter_Files.Target Filename			Left	
	.gz			Left	

Figure 1: Filename Template settings

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