Virtuo Mediation 4.0

Lucent UMTS OMCCN LMRS Fix Pack v1.0.0.0 Release Notes

DOCUMENT CONTROL

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OWNERSHIP & CONFIDENTIALITY

Contents

1 About this Documentation

1.1 About this guide

This guide provides the technical specifications and fixes for Lucent UMTS OMCCN LMRS 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-Lucent_UMTS_OMCCN_LMRS_R18-FP0001.tar
```

This mediation pack is made up of the following files:

1. The Mediation Pack Workflow

   ```
   1.0.0.0-TIV-VM-Lucent_UMTS_OMCCN_LMRS_R18-FP0001.zip
   ```

2. The grouping script

   ```
   remote_Lucent_UMTS_LMRS_grp.sh
   ```

2.2 New Features

The Lucent UMTS vendor mediation package support the Lucent UMTS OMCCN LMRS data type.

2.3 Defects Fixed

None.

3 Known Problems

3.1.1 Error message is shown twice for SFTP Distribution agents (SEAde62417).

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.

3.1.2 Restriction on the length of file and directory name in Archiving Forwarding Agent (SEAde62832).

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.

3.1.3 Incorrect percentage calculation for file distribution is produced in the reporting html (SEAde67441).

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.

4 Installation

4.1 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. Archive Profiles

    a.   Cingular.Archive_Lucent_UMTS_Files

4. Wrapper script

    a.   wrapper.sh

4.2 Installation Privileges Required

Privilege	Required
Virtuo Mediation mzadmin user password	Yes
Unix mzadmin user password	No
Oracle mzadmin user password	No

4.3 Installing the Package

4.3.1 Pre Installation

Preparing grouping 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, and duplicate the wrapper.sh and name it as Lucent_UMTS_LMRS_grp.sh.
   $ cd /home/mzadmin/scripts
   $ cp wrapper.sh Lucent_UMTS_LMRS_grp.sh
3. Copy the remote_Lucent_UMTS_LMRS_grp.sh into Virtuo Mediation Execution Context Server's scripts path.
4. Change file permission. I.e: chmod 774 remote_Lucent_UMTS_LMRS_grp.sh
5. Configure the following settings accordingly and make sure that the directories specified exist:

BASE_DIR	:	Base directory where the OMCCN LMRS data is processed. e.g.
		/home/mzadmin/spool/Lucent_UMTS/LMRS
OSS_DIR	:	Directory of the OSS. e.g:
		OSS_DIR="$BASE_DIR/$1"
INPUT_DIR	:	Directory where input files are going to be placed. e.g.
		$OSS_DIR/in
		where $OSS_DIR consists of $BASE_DIR/$1 ($1 is a parameter passed to the script, to identify the unique instance ID, which is normally the IP of the OSS) Therefore, the full path name should be :
		/home/mzadmin/spool/Lucent_UMTS/LMRS/10.110.10.10/in
OUTPUT_DIR	:	Directory where output files are going to be placed. e.g.
		$OSS_DIR/out
		where $OSS_DIR consists of $BASE_DIR/$1 ($1 is a parameter passed to the script, to identify the unique instance ID, which is normally the IP of the OSS) Therefore, the full path name should be :
		/home/mzadmin/spool/Lucent_UMTS/LMRS/10.110.10.10/out
TEMP_DIR	:	Temporary directory for internal script processing
LOG_DIR	:	Directory where all log files are going to be placed

4.3.2 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-Lucent_UMTS_OMCCN_LMRS_R18-FP0001.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-Lucent_UMTS_OMCCN_LMRS_R18-FP0001.zip` un-tarred from step 2a.

    d. Select Open → OK

    e. Select 'Import'

    f. Select 'View Log' button to view the result of the import.

4.3.3 Post Installation

There are 2 workflow templates and 1 Collection Strategy Profile.

The Templates are:

♦ Templates.Lucent_UMTS_LMRS_COLL_Template
♦ Templates.Lucent_UMTS_LMRS_FWD_Template

The Collection Strategy Profile is:

♦ Cingular.Lucent_UMTS_LMRS

Lucent UMTS OMCCN LMRS (Collection WF) New Instance Configurations

This section specifies the steps required to configure the workflow required to process Lucent UMTS OMCCN LMRS data.

To create a new processing workflow instance for the Lucent UMTS OMCCN LMRS, 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_LMRS_COLL_Template'. Click 'OK'.

4. Double click and configure the Input ESFTP Collection Agent according to the specification of your environment. The default configuration values can be referred in Appendix A.

5. Double click on the InstanceData processing agent. Modify these values to match your environment.

    a. OSS_ID (normally the IP of the OSS)

    b. Market

    c. Region

    d. MIN_FILE_SIZE (default value is 10 KB)

    e. MAX_FILE_SIZE (default value is 1GB)

    f. MAX_FILE_AGE (default value is 4 days)

6. Double click on the Disk_in disk forwarding agent and change the configuration to reflect your environment.

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.

    I.e: **Lucent_UMTS_LMRS**

9. Go to Inspection → Workflow Manager, select the WF you just scheduled → Edit → Activate.

Lucent UMTS OMC CN Grouping Script New Task Configurations

This section specifies the steps required to configure the workflow required to extract Lucent UMTS OMCCN LMRS data.

1. Log in to Virtuo Mediation Desktop as mzadmin user.

2. Go to Tools → Task Manager → Add….

3. Populate the 'Task Name' with appropriate name.

4. At Configuration Tab, specify the 'Script Name' as the full path to the Lucent_UMTS_LMRS_grp.sh created during Pre Installation. The 'Parameters' should be set to the OSS_DIR without the BASE_DIR portion (e.g. 10.10.10.10).

5. At Schedule Tab, choose 'Event Triggers' Tab and click on 'Add' icon. At Add Event Chain Trigger, click 'Add' icon. At Add Event Selection, choose 'Workflow State Event' as event type.

6. Double click the 'WorkflowName' to add a match value; for this case, it should be the name of the Lucent UMTS OMCCN LMRS (Collection WF) instance that was created during previous steps.

7. Double click 'WorkflowState' to add a match value as 'Stopped'.

Lucent UMTS OMCCN LMRS FWD (Forwarding WF) New Instance Configurations

This section specifies the steps required to configure the workflow required to forward Lucent UMTS OMCCN LMRS data to Prospect.

To create a new forwarding workflow instance for the Lucent UMTS OMCCN LMRS, 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_LMRS_FWD_Template'. Click 'OK'.

4. Double click and configure the Input 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. I.e:
   .*.LMRS_pm.tar

6. 'After Collection' should be set to 'Remove'. Click OK when you are done.

7. Double click on the InstanceData processing agent. Modify these values to match your environment.

   a. OSS_ID (normally the IP of the OSS)

   b. Market

   c. Region

8. Double click on the 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. 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 'Event Triggers' tab under the 'Schedule Criteria' area and click on the 'Add' icon.

   c. At Add Event Chain Trigger, click 'Add' icon. At Add Event Selection, choose 'Task State Event' as event type.

   d. Double click the 'TaskName' to add a match value; for this case, it should be the name of the Lucent UMTS OMCCN LMRS Grouping Script Task that was created during previous steps.

   e. Double click 'TaskState' to add a match value as 'Stopped'.

   f. Click on the 'OK' button, save and exit the workflow preference.

10. Click on the 'Save As' button and enter the correct workflow name together with the folder location, as in step 8 in *Collection WF New Instance Configurations*

11. 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, and SFTP_Vallent Forwarding Agents. Take not 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
>
> - '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_LMRS
>
> 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.

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 Overwriting.

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