Oracle Communications ASAP™ Cartridge 1.0 for Comverse MMS 3.5.X

Comverse MMS 3.5.X Cartridge Guide

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Cartridge Overview

ASAP cartridges are discrete software components that are developed for the ASAP product. An ASAP cartridge offers specific domain behavior on top of the core ASAP software, and provides the configuration that supports a set of services on a network element (NE).

An ASAP cartridge is not a stand-alone component, but operates in conjunction with the ASAP core product. ASAP cartridges offer the following benefits:

◆ **Reduced Time to Market** - time to market of new services is reduced through simplified development, implementation, and extension of cartridges on customer sites.

◆ **Extendable** - cartridges can be extended to include additional services and components that deliver business value, without requiring changes to the original cartridge.

◆ **Simplified Effort** - the effort and technical knowledge that is required to perform customizations is reduced.

◆ **Ease of Installation** - cartridges can be installed into an ASAP environment without interfering with the existing install base.

An ASAP cartridge can be used to configure ASAP to provision the following:

◆ NEs from a specific vendor, such as Nortel or Lucent.

◆ Technologies, such as Asynchronous Transfer Mode (ATM) and Frame Relay switches, or Internet Protocol (IP) routers.

◆ Services that are supported on the NE, such as ATM, IP Virtual Private Networks (VPN), Wireless, or Optical.

Cartridges are designed for a specific technology, software load, and service.

An ASAP cartridge supports a particular set of services on an NE. These services are independent of customer-specific service definitions. Professional Services or systems integrators can perform extensions to the cartridge to support customer-specific requirements.

Cartridge content

An ASAP cartridge contains the following:

◆ Sample NE configuration

◆ A set of scripts, such as State Tables or Java methods

- ◆ A set of atomic actions in the form of Atomic Service Description Layer (ASDL) commands
- ◆ A set of Common Service Description Layer (CSDL) commands that form meaningful services
- ◆ Sample work orders
- ◆ Installation scripts

Prerequisites

System integrators such as managers, designers, programmers, and testers who are responsible for the adaptation and integration of ASAP-based solutions should use this manual as a reference. It assumes that readers possess the following skills:

- ◆ A knowledge of ASAP programming concepts
- ◆ A good working knowledge of the UNIX operating system
- ◆ A thorough understanding of service and network provisioning
- ◆ Familiarity with telecommunications

About this guide

This guide provides a detailed description of the Comverse MMS cartridge. It contains overview and technical information to assist with extending and integrating the cartridge into a customer environment.

The scope of this guide includes ASAP as it pertains to the use of this cartridge. It is not intended to be a complete ASAP reference guide.

For additional information when using this cartridge, refer to the following supporting documentation:

- ◆ **Activation documentation set**—for detailed information on the ASAP component.

The Comverse MMS cartridge provides the ASAP service configuration and network element (NE) interface to activate provisioning services on T_CMVT-MMS_3-5-X_HOST NEs.

Services, features, and options

This cartridge supports the following services:

Table 1: Supported services

Service	Description
Create an MMS Subscriber	Creates a new MMS subscriber on the Comverse Provisioning Application Server (ComPAS).
Delete an MMS Subscriber	Deletes an existing MMS subscriber from the Comverse Provisioning Application Server (ComPAS).
Modify an MMS Subscriber	Modifies an existing MMS subscriber on the Comverse Provisioning Application Server (ComPAS).
Retrieve an MMS Subscriber	Retrieves MMS subscriber details from the Comverse Provisioning Application Server (ComPAS).
Add or Modify an MMS Subscriber	Adds or modifies an MMS subscriber on the Comverse Provisioning Application Server (ComPAS).

Hardware and software requirements

The following sections contain the high-level software and hardware environment requirements for provisioning provisioning services on authentication center including:

◆ Network element (NE) interface

◆ ASAP version

Network element (NE) interface

The following database tables in SARM are configured to support the NE configuration:

◆ tbl_host_clli

◆ tbl_clli_route

◆ tbl_comm_param

◆ tbl_resource_pool

◆ tbl_ne_config

ASAP version

This cartridge was developed and tested using ASAP version 5.2.3.

For more information on the operating environment of this ASAP version, refer to the ASAP version 5.2.3 Release Record.

Connecting to the NE

This cartridge uses HTTPS/HTTP to connect to the NE.

This cartridge supports the XML commands over HTTPS/HTTP protocol.

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Installing and Testing the Cartridge

This chapter describes the following procedures related to installing and testing the cartridge:

◆ Downloading the cartridge
◆ Installing the cartridge using scripts
◆ Uninstalling the cartridge using scripts
◆ Testing the cartridge installation
◆ Deployment of the cartridge using Studio
◆ Uninstallation and Undeployment of the cartridge using Studio

Downloading the cartridge

Before you can install the cartridge, you must use the internet to download the cartridge's TAR file from Oracle's Customer Portal.

Use the following instructions to download, then unTAR the TAR file.

To download the TAR file

1. Login to Oracle MetaLink internet home page (http://www.metalink.oracle.com).

2. Download the cartridge patch to your workstation.

To unTAR the TAR file

1. On your workstation, create a repository directory—the naming of which is your choice.

   ```
   mkdir <repository dir>
   ```

2. Copy the TAR file to the repository directory.

3. Untar `ComverseMMS_3_5_X_R1_0_0.<buildID>`.tar.

   ```
   tar xvf ComverseMMS_3_5_X_R1_0_0.<buildID>.tar
   ```

The directory structure in the repository directory should look like the following illustration. (this illustration describes the minimum required structure; you can enhance this directory structure with additional directories based on your requirements and deliverables).

```
<repository_directory>
      /README
      /installCartridge
      /uninstallCartridge
```

```
/COMVERSE_MMS_3_5_X_R1_0_0.sar
```

Starting ASAP

Before installing the cartridge, ensure that ASAP is running.

To start ASAP

1. To start ASAP, execute the following script:

    ```
    start_asap_sys
    ```

2. Ensure the ASAP Daemon (DAM_$ENV_ID) is running by checking the ASAP status using the ASAP script "status".

3. Check whether the WebLogic instance for this ASAP environment is running. If not, start the WebLogic instance.

The *ASAP Administration Guide* contains more information on starting ASAP, the ASAP Daemon, and WebLogic.

Installing the cartridge using scripts

Run the installation script *installCartridge* to install the cartridge. The script executes the following tasks:

◆ Configures the Comverse MMS-specific NE using the SACT.

◆ Deploys the Comverse MMS cartridge service model (only if the Comverse MMS service model is not yet deployed) using the Service Activation Deployment Tool (SADT).

◆ Copies the Comverse MMS-specific jar files to the ASAP environment.

◆ Loads the sample work orders to the SRP database.

For information on the SACT and the SADT, refer to the *ASAP Administration Guide*.

To install the cartridge

1. Run the installCartridge script. At the prompt, type:

   ```
   installCartridge COMVERSE_MMS_3_5_X_R1_0_0.sar
   ```

2. The script prompts you for the values of the following WebLogic login parameters:

   ◆ WebLogic Hostname
   ◆ WebLogic HTTP Port
   ◆ WebLogic Login User ID
   ◆ WebLogic Login Password

   The script loads the NEP-NE configuration and the CSDL-ASDL configuration to the SARM database, and loads sample work orders to the SRP database. The script also copies the cartridge-specific jar files to the ASAP environment.

3. Copy studio_2_6_0.jar file to the $ASAP_BASE/lib directory.

4. Add ${ASAP_BASE}/lib/studio_2_6_0.jar to the CLASSPATH in the JInterpreter file under $ASAP_BASE/programs directory.

5. Restart ASAP to upload the cartridge configuration into ASAP.

Uninstalling the cartridge using scripts

Run the uninstallation script *uninstallCartridge* to uninstall the Comverse MMS cartridge. The script executes the following tasks:

◆ Unconfigures Comverse MMS-specific NEs using the SACT.

◆ Undeploys the Comverse MMS cartridge service model (only if the Comverse MMS service model is already deployed) using the Service Activation Deployment Tool (SADT).

◆ Removes the Comverse MMS-specific jar files from the ASAP environment.

For more information on the SACT and the SADT, refer to the *ASAP Administration Guide*.

To uninstall the cartridge

1. Run the *uninstallCartridge* script. At the prompt, type:

   ```
   uninstallCartridge COMVERSE_MMS_3_5_X_R1_0_0.<timestamp>.sar
   ```

2. The script prompts you for the values of the following parameters:

   ◆ WebLogic Hostname
   ◆ WebLogic HTTP Port
   ◆ WebLogic Login User ID
   ◆ WebLogic Login Password

The script unloads the NEP-NE configuration and CSDL-ASDL configuration from SARM database. It also removes the cartridge specific jar files from the ASAP environment.

Testing the cartridge installation

To test this cartridge installation, you need to know about the network element (NE), services, and basic Activation configuration. You may need to perform adjustments to provision a service for a specific NE, network, or connectivity configuration.

You can test the cartridge installation using one of the following methods:

◆ **Loopback mode**—does not actually connect to or send commands to the NE.
◆ **Live mode**—connects to and sends commands to a live NE.

Configuring loopback and live mode parameters

Set the following variables to test the cartridge in loopback or live testing modes.

Loopback mode

Set the following parameter to test the cartridge in loopback mode.

Table 2: Loopback Mode Parameter Settings

Configuration Variable	Parameter Settings	Location
LOOPBACK_ON	1 (default setting)	ASAP.cfg

Live mode

Set the following parameter to test the cartridge in live mode.

Table 3: Live Mode Parameter Settings

Configuration Variable	Parameter Settings	Location
LOOPBACK_ON	0	ASAP.cfg

Communication parameters

The following are the list of parameters for the sample NE configuration XML used by SACT.

Table 4: Communication Parameters

Parameter Label	Parameter Value	Parameter Description
HOST_IPADDR	pitt-prov.msg.in.telstra.com.au	The host name or IP Address of the remote NE.
PORT	51449	Port number to connect on remote NE host.
OPEN_TIMEOUT	20	Connection timeout in seconds.
READ_TIMEOUT	30000	Read timeout in seconds.
RESPONSELOG	TRUE	Flag to turn On or Off Response logging.
SERVLET_URL	/compas/ProvisionServlet	URL of the web server.
READ_ONLY_FIELDS	MAILSEARCHENABLED, COMPOSESMSENABLED ,MAILACCOUNT.SERVER TYPE,MAILACCOUNT.OP ERATOREMS,MNSMAIL ACCMAILEMAILADDR, CNSRECVSFNOTIFICATI ON,CNSACCEPTSFLINK, VOICEMAILENABLED, TUIACCESSENABLED	The Read only parameters.
PROTOCOL	https	Protocol Name.
AUTHORIZATION_UID	spm_app_user	Basic Authorization user name.
AUTHORIZATION_PWD	J5_W18fk	Basic Authorization password.

Table 4: Communication Parameters

Parameter Label	Parameter Value	Parameter Description
REALM	CompasRealm	The database of usernames and passwords that identify valid users of a web application.
DISABLE_PORT_ON_LOGIN	1	To support round robin connection policy, this parameter determines whether the port should be disabled if login to the NE fails and ASAP should try to establish connection with next available device. If the value of this parameter is set to zero, then the port is not disabled and ASAP keeps trying the same device.
STATUS_SERVLET_URL	/compas/ compasstatusservlet	URL to verify the connection to server.

Modifying T_CMVT-MMS_3-5-X_HOST.xml

Use the following procedure to modify T_CMVT-MMS_3-5-X_HOST.xml.

To modify T_CMVT-MMS_3-5-X_HOST.xml

1. Create a new source directory. You can give this directory any appropriate, meaningful name you want to.

   ```
   mkdir <new_source_directory>
   ```

2. Copy COMVERSE_MMS_3_5_X_R1_0_0.sar to this new source directory.

   ```
   cp COMVERSE_MMS_3_5_X_R1_0_0.sar ./<new_source_directory>
   ```

3. Change directory to <new_source_directory>.

   ```
   cd <new_source_directory>
   ```

4. Un-jar COMVERSE_MMS_3_5_X_R1_0_0.sar. This extracts the contents of the sar file.

   ```
   jar xvf COMVERSE_MMS_3_5_X_R1_0_0.sar
   ```

5. Edit <new_source_directory>T_CMVT-MMS_3-5-X_HOST.xml in with the appropriate changes.

6. Create a new sar file at the <new_source_directory> level.

   ```
   CreateSar $PWD
   ```

7. Uninstall the cartridge using COMVERSE_MMS_3_5_X_R1_0_0.sar. (That is, use the original sar file that you copied in Step 2 above—see "Uninstalling the cartridge using scripts" on page 7 for uninstallation instructions).

8. After you uninstall the cartridge, rename the sar file, so you have a backup copy of it.

9. Copy the new sar file from <new_source_directory>.

10. Reinstall the cartridge (see "Installing the cartridge using scripts" on page 7 for installation instructions).

Testing the installation

The following procedure describes the steps required to test the cartridge installation in loopback mode. We recommend that you perform the initial cartridge installation test in loopback mode.

To test in loopback mode

1. Stop ASAP by typing the following command at the UNIX prompt:

   ```
   stop_asap_sys
   ```

2. Ensure loop back mode is on. See "Loopback mode" on page 8 for a description of how to set the loop back parameter to "On".

3. Start ASAP by typing:

   ```
   start_asap_sys
   ```

4. Send the sample work orders through the SRP Emulator by typing:

   ```
   run_suite $SRP <ctrl_password> <suite name>
   ```

   You can locate the suite names by typing:

   ```
   grep SUITE * | grep -v END
   ```

   A list of all available suites appears.

   For more information on the SRP Emulator, refer to the *ASAP Administration Guide*.

5. Verify the status of the sample work orders by typing:

   ```
   asap_utils l
   ```

   All successful work orders returns to the 104 state.

   To view the sample work orders provided with this cartridge, refer to the Comverse MMS cartridge source.

Viewing the sample work orders

You find the sample work orders under the **SampleWorkOrders** directory in the sar file. The following procedure describes how to view the sample work orders.

To view the sample work orders

1. Create a repository directory, copy the sar file to the new directory and un-jar the sar file, as described by Step 1 through Step 4 in "Modifying T_CMVT-MMS_3-5-X_HOST.xml" on page 10.

2. Locate and view the sample work order files.

Deployment of the cartridge using Studio

Before installing the cartridge, ensure weblogic and ASAP are started and running.

The following are the steps involved:

1. Open Studio in design perspective. Choose **Import** from the **File** menu and select **Activation Archive (SAR)** under **Studio Wizards** to import the sar file. Browse for the path to the sar file and click **Finish**.

2. Create a new **Service Activation Project**.

3. Define a new **NE Entity**, based on the **NE Template** contained in the cartridge provided by Oracle.

4. Ensure that the primary pool of the newly created NE is different from the NE template primary pool. You can modify it, if necessary.

5. Ensure that the test work order provided with the cartridge targets the newly defined NE. If not, then modify the test work orders file(s).

6. Create a new **Activation Environment Project** from the **Studio** menu. (Use Studio help for more information).

7. Create **Activation Environment** inside the **Activation Environment Project** and configure the **Connection Details** tab with your Environment ID, Activation version and weblogic data.

8. Connect to your environment using the **Connect** button.

9. Select the **Cartridge** tab of the **Activation Environment** and click **Add** to add your projects to the environment. The cartridge and the newly created **Service Activation** should appear in the **Cartridges** list.

10. Deploy the **NetworkActivation** (NA) cartridge provided by Oracle. (No NE information is to be deployed with this cartridge, therefore it isn't necessary to deploy the **NEP map** info).

11. Deploy the **Service Activation** (SA) project as follows:

- On the **Cartridge** tab, select the necessary SA cartridge and press the **Deploy** button.
- Select the **NEP Map** tab of the **Activation Environment**. Choose the necessary **NEP** server from the drop-down box of the **Network Element Processors**.(Use Studio help for more information).
- Select the SA cartridge from the **Network Element Processor Map** and click the **Deploy** button.

12. Verify the **SADT** console to confirm the installation.

13. Go to ASAP environment.

14. Copy studio_2_6_0.jar file to the $ASAP_BASE/lib directory.

15. Add ${ASAP_BASE}/lib/studio_2_6_0.jar to the CLASSPATH in the JInterpreter file under $ASAP_BASE/programs directory.

16. Restart **ASAP** in order to start working with the cartridge.

Uninstallation and Undeployment of the cartridge using Studio

The following are the steps involved:

1. Connect to your environment using the **Connect** button.

2. Select the necessary cartridge from the **Environment Cartridge** list in Studio 2.6 and click the **Undeploy** button.

3. Verify the **Environment Cartridge** list. The check box with the name of the cartridge that is disabled should be unchecked.

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Atomic Service Description Layer (ASDL) Commands

ASDL commands represent a set of atomic actions that ASAP can perform on a network element (NE). ASAP can combine ASDLs to create meaningful services (CSDLs) within a cartridge.

This chapter presents detailed information on the ASDL parameters that we provide with this cartridge. The following table lists and describes the type of parameter information that is included.

Table 5: ASDL parameter information

Item	Description
Parameter Name	Identifies the parameter that is configured for the stated service.
Description	Describes the parameter.
Range	Describes or lists the range of values that can be used to satisfy this parameter.
Default Value	Configures a default value for the parameter so that it is not mandatory for the upstream system to provide a value.

Table 5: ASDL parameter information

Item	Description
Type	Indicates one of the following parameter types: ◆ S—Scalar, specifies the parameter label transmitted on the ASDL command. Scalar parameters are conventional name-value pair parameters. ◆ C—Compound, specifies the base name of the compound parameter transmitted on the ASDL command. A compound parameter contains structures or arrays of information that are represented by a particular structure name or compound parameter name. Each compound parameter can contain a large number of elements. If you use compound parameters, you only require a single entry in the ASAP translation tables to call the compound parameter and all its associated parameter elements. ◆ I—Indexed, identifies a parameter that contains a sequential numerical index value to tell the SARM that it should execute the same operation (for example, an ASDL command) for all occurrences of that index. Consequently, if there are several options on a particular CSDL command (OPT1, OPT2, OPT3, etc.), you can specify the OPT parameter as an indexed parameter. When you specify the OPT parameter as an indexed parameter, the SARM generates several occurrences of that same ASDL command and each command has a different value for the option being transmitted to the NEP. For more information on parameter types, refer to the *ASAP Developer Reference*.
Class	Indicates one of the following parameter classifications: ◆ R—Required scalar parameter ◆ O—Optional scalar parameter ◆ C—Required compound parameter ◆ N—Optional compound parameter ◆ M—Mandatory indexed parameter ◆ I—Optional indexed parameter ◆ S—Parameter count

For a detailed description of the Required and Optional parameter classifications, refer to the *ASAP Administration Guide.*

ASDL commands

This cartridge provides the following ASDL commands:

◆ A_CMVT-MMS_3-5-X_ADD-OR-MOD_SUBSCRIBER

◆ A_CMVT-MMS_3-5-X_ADD-OR-MOD_SUBSCRIBER-RB

◆ A_CMVT-MMS_3-5-X_ADD_SUBSCRIBER

◆ A_CMVT-MMS_3-5-X_DEL_SUBSCRIBER

◆ A_CMVT-MMS_3-5-X_MOD_SUBSCRIBER

◆ A_CMVT-MMS_3-5-X_MOD_SUBSCRIBER-RB

◆ A_CMVT-MMS_3-5-X_QRY_SUBSCRIBER

◆ A_CMVT-MMS_3-5-X_QRY_SUBSCRIBER-RB

A_CMVT-MMS_3-5-X_ADD-OR-MOD_SUBSCRIBER

Add or Modify a MMS Subscriber. It is implemented by the Java method
**com.metasolv.cartridge.oss.cmvt_mms_3_5_x.prov.SubscriberProvisioning.addOrModif
ySubscriber.**

Table 6: A_CMVT-MMS_3-5-X_ADD-OR-MOD_SUBSCRIBER

Parameter Name	Description	Range	Default Value	Type	Class
MCLI	The remote network element name.			S	R
PROVISIONINGKEY	Subscriber Id.			S	R
PLMNNAME	The name of the subscriber cellular company.	50 char string.		S	O
PROVISIONINGKEY TYPE	Provisioning Key Type.			S	O
PROVISIONINGENTI TYNAME	Provisioning Entity Name			S	O
HOSTREFERENCE	Host Reference.			S	O
MMSENABLED	Determines if the MMS Service is enabled for this subscriber.	The possible values are true/false or 1/0.		S	O

Table 6: A_CMVT-MMS_3-5-X_ADD-OR-MOD_SUBSCRIBER

Parameter Name	Description	Range	Default Value	Type	Class
VOICEMAILENABLED	Voice Mail Enabled.	The possible values are true/false or 1/0.		S	O
TUIACCESSENABLED	TUI Access Enabled.	The possible values are true/false or 1/0.		S	O
HANDSETTYPE	Defines the terminal type.	30 char string.		S	O
COUNTRYCODE	Specifies the Country Code.	3 char string.		S	R
MMSADDRESS	Defines the full MMS address of the subscriber in RFC822 format.	325 char string.		S	R
OPERATORCODE	Specifies the operator's area code.	3 char string.		S	R
TELEPHONENUMBER	Defines the subscriber main telephone number (MSISDN).	16 char string.		S	O
SUBSCRIBERSERVICEPACKAGEID	Determines the subscriber COS ID for all services.	5 digit integer.		S	O
ISPREPAID	Defines if the subscriber is a prepaid subscriber.	The possible values are true/false or 1/0.		S	O
MMSCOPYTOSENTITEMS	Determines if the subscriber wants to send a copy of each sent message to their sent items folder.	The possible values are true/false or 1/0.		S	O
MMSBWLISTINUSE	The values of BW List type in use.	The possible values are None, Black and White.		S	O
MMSBWLISTENABLED	Determines if the subscriber is allowed to use a BW list.	The possible values are true/false or 1/0.		S	O

Table 6: A_CMVT-MMS_3-5-X_ADD-OR-MOD_SUBSCRIBER

Parameter Name	Description	Range	Default Value	Type	Class
MMSMSGDELIVERYREPENABLED	Specifies if user allows sending delivery report.	The possible values are true/false or 1/0.		S	O
DEFAULTREADREPLYREQUEST	Specifies if the user wants to request read-reply by default (without any special action from the user during compose).	The possible values are true/false or 1/0.		S	O
DEFAULTMMSMSGDELIVERYREP	Defines if the user wants to request a delivery report by default (without any special action from the user during compose).	The possible values are true/false or 1/0.		S	O
USERDATA	Text to be reflected in CDRs.	20 char string.		S	O
FAXDOMAIN	FaxDomain is used for Region.	Valid values 1 to 9 or 0 if unknown.		S	O
PAGER	Pager is used for Tax.	Valid values 10 or 15.		S	O
SUBSCRIBERNAME	Defines the subscribers full name.	100 char string.		S	O
FACSIMILETELEPHONENUMBER	Defines the Fax number	60 char string.		S	O
INTERNETUSERNAME	Defines the WEB login user name.	50 char string.		S	O
INTERNETPASSWORD	Defines the WEB login password.	6-128 char string.		S	O
EXTERNALSUBSCRIBERID	Subscriber Identification Number	13 char string.		S	O
GLOBALLANGUAGEID	Indicates the default language for all the applications.	10 char string.		S	O

Table 6: A_CMVT-MMS_3-5-X_ADD-OR-MOD_SUBSCRIBER

Parameter Name	Description	Range	Default Value	Type	Class
DEFAULTREPLYMEDIA	Determines the default media for replying to incoming messages.	The possible values are ◆ 1 = voice, ◆ 2 = fax, ◆ 3 = text, ◆ 4 = same, ◆ 5 = video.		S	O
FOLDERREVIEWSORTORDERDEFAULT	Defines the sort order of messages.	1 char string.		S	O
FOLDERREVIEWSORTFIELDDEFAULT	Defines the default sort field for the folder message-list page.	2 digit integer.		S	O
MNSMAILACCMAILEMAILADDR	Defines the main Email Address.	String.		S	O
DEFAULTFROMADDRESS	Defines the Default From address for the subscriber.	325 char string.		S	O
SENDSHAREDFOLDERNOTIF	Determines the type of activity performed on shared folders that sends an MMS or SMS notification	The possible values are ◆ A = Adding to a shared folder, ◆ M = Modifying a shared folder, ◆ R = Removing from a shared folder.		S	O
RCVANONYMOUSENABLED	Determines if the anonymous messages are allowed to be received	The possible values are true/false or 1/0.		S	O
SENDMAXMMSMSGSIZE	Defines the maximum size for sending a message in KB.	10 digit integer.		S	O

Table 6: A_CMVT-MMS_3-5-X_ADD-OR-MOD_SUBSCRIBER

Parameter Name	Description	Range	Default Value	Type	Class
RCVMAXMMSMSGSIZE	Defines the maximum size for recieving a message in kB	10 digit integer.		S	O
CNSRECVSFNOTIFICATION	Determines whether the subscriber receives notifications when actions are performed on shared folders.	String.		S	O
CNSACCEPTSFLINK	Determine whether the subscriber accepts links to a shared folder by other subscribers.	The possible values are true/false or 1/0.		S	O
SENDMMSENABLED	Determines if the user is allowed to send messages.	The possible values are true/false or 1/0.		S	O
RECEIVEMMSENABLED	Determines if the user is allowed to receive messages.	The possible values are true/false or 1/0.		S	O
MAXNUMMMSSENDATTACH	Defines the maximum number of attachments per message.	2 digit integer.		S	O
MAXNUMMMSSENDRECIPIENTS	Determines the maximum number of recipients per message.	3 digit integer.		S	O
SENDTOOTHERRELAYENABLED	Determines if messages can be sent to another relay.	The possible values are true/false or 1/0.		S	O
SENDMMSTOEMAILENABLED	Determines if messages can be sent to email.	The possible values are true/false or 1/0.		S	O
SENDMMSMSGTYPESRESTRICTIONS	List of message types the user is allowed/forbidden to send.	150 char string.		S	O

Table 6: A_CMVT-MMS_3-5-X_ADD-OR-MOD_SUBSCRIBER

Parameter Name	Description	Range	Default Value	Type	Class
SHAREDFOLDERENABLED	Determines whether the subscriber can convert his/her folders into shared folders.	The possible values are true/false or 1/0.		S	O
RCVMMSMSGTYPESRESTRICTIONS	List of message types the user is allowed/ forbidden to receive.	150 char string.		S	O
RCVMMSMSGCLASSRESTRICTIONS	List of message classes the user is allowed/ forbidden to receive.	150 char string.		S	O
SECURITYLEVEL	Defines the user's security level. This specifies if additional username/password authentication is required for WAP.	5 char string.		S	O
SENDTOMMA	Enables the subscriber to download the contents of an MMS message to the MMA.	The possible values are true/false or 1/0.		S	O
SENDANONYMOUSENABLED	Determines if the user is allowed to send anonymous messages.	The possible values are true/false or 1/0.		S	O
LOCALMMAENABLED	Determines whether the subscriber has a private local MMA.	The possible values are true/false or 1/0.		S	O
FORWARDENABLED	Enables the forwarding for users who do not have a mailbox.	The possible values are true/false or 1/0.		S	O
MMSFWTOALTADDRESS	Defines the alternative address to which messages are forwarded in case the user is not provisioned in the Mbox service.	325 char string.		S	O

Table 6: A_CMVT-MMS_3-5-X_ADD-OR-MOD_SUBSCRIBER

Parameter Name	Description	Range	Default Value	Type	Class
MMSSENDTOMBX	Determines how to handle the message that the subscriber received.	The possible values are ◆ 0 for handset only, ◆ 1 for MMBox only, and ◆ 2 for both handset and MMBox.		S	O
MMSREPLYCHARGETYPE	Indicates the type of reply charging permissions.	◆ 0 = Not_ Allowed, ◆ 1 = Text_Only, ◆ 2 = Allow_All.		S	O
MMSBWLISTTYPE	The types of list.	The possible values are ◆ 1 = black, ◆ 2 = white, 1|2 = both black and white.		S	O
MMSCOMPOSEENABLED	Defines if the subscriber is allowed to compose/forward messages using the MMBox.			S	O
MMSREPLYENABLED	Defines which subscriber is allowed to reply to messages from the MMBox (Web interface).	The possible values are ◆ 0 = not allowed, ◆ 1 = allow all, ◆ 2 = allow senders only.		S	O
MULTIMEDIAMESSAGEENABLED	Creates a subscriber with a mailbox account on the MIPS.	The possible values are true/false or 1/0.		S	O
MAILACCOUNT	Defines the mail account.			C	O
MMSBWLISTFILTER	An address filter for a black/white list.			C	O
COMPOSESMSENABLED	Enables the sending of short messages to SMS.			S	O

Table 6: A_CMVT-MMS_3-5-X_ADD-OR-MOD_SUBSCRIBER

Parameter Name	Description	Range	Default Value	Type	Class
MAILSEARCHENAB LED	Enables the message search feature of the MMBox.			S	O
OPERINDICATION	Defines the operator.	String values.		S	O
MAILBOXBLOCKED	Determines if the subscriber mailbox is blocked.	0 = Mailbox is not unblocked 1 = Mailbox is blocked		S	O
MMBOXACCOUNTE NABLED	Determines if the subscriber MMBox account is enabled.	0 = MMBox account is disabled 1 = MMBox account is enable		S	O

MML Commands

```
This method is used to Create a new subscriber, if not already exists for the
given subscriber ID or

Modify the subscriber's data if it already exists.

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</Filter>

</Filters>

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</MmsBWLists>

</Subscriber>

</Data>

</CompasRequest>

</ComPAS>
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Output Parameters

Return as CSDL parameter

A_CMVT-MMS_2-9_ADD-OR-MOD_SUBSCRIBER_UDET = <user defined exit type>

Return as Info Parameter

A_CMVT-MMS_2-9_ADD-OR-MOD_SUBSCRIBER_RETURNINFO = <ErrorText>

A_CMVT-MMS_3-5-X_ADD-OR-MOD_SUBSCRIBER-RB

Rollback service for Add or Modify a MMS Subscriber. It is implemented by the Java method **com.metasolv.cartridge.oss.cmvt_mms_3_5_x.prov.SubscriberProvisioning.addOrModifySubscriberRB.**

Table 7: A_CMVT-MMS_3-5-X_ADD-OR-MOD_SUBSCRIBER-RB

Parameter Name	Description	Range	Default Value	Type	Class
MCLI	The remote network element name.			S	R
OLD_PROVISIONINGKEY	Subscriber Id.			S	O
OLD_PLMNNAME	The name of the subscriber cellular company.	50 char string.		S	O
OLD_PROVISIONINGKEYTYPE	Provisioning Key Type.			S	O
OLD_PROVISIONINGENTITYNAME	Provisioning Entity Name			S	O
OLD_HOSTREFERENCE	Host Reference.			S	O
OLD_MMSENABLED	Determines if the MMS Service is enabled for this subscriber.	The possible values are true/false or 1/0.		S	O
OLD_VOICEMAILENABLED	Voice Mail Enabled.	The possible values are true/false or 1/0.		S	O
OLD_TUIACCESSENABLED	TUI Access Enabled.	The possible values are true/false or 1/0.		S	O
OLD_HANDSETTYPE	Defines the terminal type.	30 char string.		S	O
OLD_COUNTRYCODE	Specifies the Country Code.	3 char string.		S	O

Table 7: A_CMVT-MMS_3-5-X_ADD-OR-MOD_SUBSCRIBER-RB

Parameter Name	Description	Range	Default Value	Type	Class
OLD_MMSADDRESS	Defines the full MMS address of the subscriber in RFC822 format.	325 char string.		S	O
OLD_OPERATORCODE	Specifies the operators area code.	3 char string.		S	O
OLD_TELEPHONENUMBER	Defines the subscriber main telephone number (MSISDN).	16 char string.		S	O
OLD_SUBSCRIBERSERVICEPACKAGEID	Defines the subscriber main telephone number (MSISDN).	5 digit integer.		S	O
OLD_ISPREPAID	Defines if the subscriber is a prepaid subscriber.	The possible values are true/false or 1/0.		S	O
OLD_MMSCOPYTOSENTITEMS	Determines if the subscriber wants to send a copy of each sent message to their sent items folder.	The possible values are true/false or 1/0.		S	O
OLD_MMSBWLISTINUSE	BW List type in use.	The possible values are None, Black and White.		S	O
OLD_MMSBWLISTENABLED	Determines if the subscriber is allowed to use a BW list.	The possible values are true/false or 1/0.		S	O
OLD_MMSMSGDELIVERYREPENABLED	Specifies if user allows sending delivery report.	The possible values are true/false or 1/0.		S	O
OLD_DEFAULTREADREPLYREQUEST	Specifies if the user wants to request read-reply by default (without any special action from the user during compose).	The possible values are true/false or 1/0.		S	O

Table 7: A_CMVT-MMS_3-5-X_ADD-OR-MOD_SUBSCRIBER-RB

Parameter Name	Description	Range	Default Value	Type	Class
OLD_DEFAULTMMS MSGDELIVERYREP	Defines if the user wants to request a delivery report by default (without any special action from the user during compose).	The possible values are true/false or 1/0.		S	O
OLD_USERDATA	Text to be reflected in CDRs.	20 char string.		S	O
OLD_FAXDOMAIN	FaxDomain is used for Region.	Valid values 1 to 9 or 0 if unknown.		S	O
OLD_PAGER	Pager is used for Tax.	Valid values 10 or 15.		S	O
OLD_SUBSCRIBERN AME	Defines the subscribers full name.	100 char string.		S	O
OLD_FACSIMILETEL EPHONENUMBER	Defines the Fax number	60 char string.		S	O
OLD_INTERNETUSE RNAME	Defines the WEB login user name.	50 char string.		S	O
OLD_INTERNETPAS SWORD	Defines the WEB login password.	6-128 char string.		S	O
OLD_EXTERNALSU BSCRIBERID	Subscriber Identification Number	13 char string.		S	O
OLD_GLOBALLANG UAGEID	Indicates the default language for all the applications.	10 char string		S	O
OLD_DEFAULTREPL YMEDIA	Determines the default media for replying to incoming messages.	The possible values are ◆ 1 = voice, ◆ 2 = fax, ◆ 3 = text, ◆ 4 = same, ◆ 5 = video.		S	O

Table 7: A_CMVT-MMS_3-5-X_ADD-OR-MOD_SUBSCRIBER-RB

Parameter Name	Description	Range	Default Value	Type	Class
OLD_FOLDERREVIEWSORTORDERDEFAULT	Defines the sort order of messages.	1 char string.		S	O
OLD_FOLDERREVIEWSORTFIELDDEFAULT	Defines the default sort field for the folder message-list page.	2 digit integer.		S	O
OLD_MNSMAILACCMAILEMAILADDR	Defines the main Email Address.	String.		S	O
OLD_DEFAULTFROMADDRESS	Defines the Default From address for the subscriber.	325 char string.		S	O
OLD_SENDSHAREDFOLDERNOTIF	Determines the type of activity performed on shared folders that sends an MMS or SMS notification.	The possible values are ◆ A = Adding to a shared folder, ◆ M = Modifying a shared folder, ◆ R = Removing from a shared folder.		S	O
OLD_RCVANONYMOUSENABLED	Determines if the anonymous messages are allowed to be received	The possible values are true/false or 1/0.		S	O
OLD_SENDMAXMMSMSGSIZE	Defines the maximum size for sending a message in KB.	10 digit integer.		S	O
OLD_RCVMAXMMSMSGSIZE	Defines the maximum size for recieving a message in kB	10 digit integer.		S	O
OLD_CNSRECVSFNOTIFICATION	Determines whether the subscriber receives notifications when actions are performed on shared folders.	String.		S	O

Table 7: A_CMVT-MMS_3-5-X_ADD-OR-MOD_SUBSCRIBER-RB

Parameter Name	Description	Range	Default Value	Type	Class
OLD_CNSACCEPTSF LINK	Determine whether the subscriber accepts links to a shared folder by other subscribers.	The possible values are true/false or 1/0.		S	O
OLD_SENDMMSENA BLED	Determines if the user is allowed to send messages.	The possible values are true/false or 1/0.		S	O
OLD_RECEIVEMMS ENABLED	Determines if the user is allowed to receive messages.	The possible values are true/false or 1/0.		S	O
OLD_MAXNUMMMS SENDATTACH	Defines the maximum number of attachments per message.	2 digit integer.		S	O
OLD_MAXNUMMMS SENDRECIPIENTS	Determines the maximum number of recipients per message.	3 digit integer.		S	O
OLD_SENDTOOTHE RRELAYENABLED	Determines if messages can be sent to another relay.	The possible values are true/false or 1/0.		S	O
OLD_SENDMMSTOE MAILENABLED	Determines if messages can be sent to email.	The possible values are true/false or 1/0.		S	O
OLD_SENDMMSMS GTYPESRESTRICTIO NS	List of message types the user is allowed/ forbidden to send.	150 char string.		S	O
OLD_SHAREDFOLD ERENABLED	Determines whether the subscriber can convert his/her folders into shared folders.	The possible values are true/false or 1/0.		S	O
OLD_RCVMMSMSG TYPESRESTRICTION S	List of message types the user is allowed/ forbidden to receive.	150 char string.		S	O
OLD_RCVMMSMSG CLASSRESTRICTIO NS	List of message classes the user is allowed/ forbidden to receive.	150 char string.		S	O

Table 7: A_CMVT-MMS_3-5-X_ADD-OR-MOD_SUBSCRIBER-RB

Parameter Name	Description	Range	Default Value	Type	Class
OLD_SECURITYLEVEL	Defines the user's security level. This specifies if additional username/password authentication is required for WAP.	5 char string.		S	O
OLD_SENDTOMMA	Enables the subscriber to download the contents of an MMS message to the MMA.	The possible values are true/false or 1/0.		S	O
OLD_SENDANONYMOUSENABLED	Determines if the user is allowed to send anonymous messages	The possible values are true/false or 1/0.		S	O
OLD_LOCALMMAENABLED	Determines whether the subscriber has a private local MMA.	The possible values are true/false or 1/0.		S	O
OLD_FORWARDENABLED	Enables the forwarding for users who do not have a mailbox.	The possible values are true/false or 1/0.		S	O
OLD_MMSFWTOALTADDRESS	Defines the alternative address to which messages are forwarded in case the user is not provisioned in the Mbox service.	325 char string.		S	O
OLD_MMSSENDTOMBX	Determines how to handle the message that the subscriber received.	The possible values are ◆ 0 for handset only, ◆ 1 for MMBox only, and ◆ 2 for both handset and MMBox.		S	O
OLD_MMSREPLYCHARGETYPE	Indicates the type of reply charging permissions.	◆ 0 = Not_ Allowed, ◆ 1 = Text_Only, ◆ 2 = Allow_All.		S	O

Table 7: A_CMVT-MMS_3-5-X_ADD-OR-MOD_SUBSCRIBER-RB

Parameter Name	Description	Range	Default Value	Type	Class
OLD_MMSBWLISTTYPE	The types of list.	The possible values are ◆ 1 = black, ◆ 2 = white, 1|2 = both black and white.		S	O
OLD_MMSCOMPOSEENABLED	Defines if the subscriber is allowed to compose/forward messages using the MMBox.	The possible values are true/false or 1/0.		S	O
OLD_MMSREPLYENABLED	Defines which subscriber is allowed to reply to messages from the MMBox (Web interface).	The possible values are ◆ 0 = not allowed, ◆ 1 = allow all, ◆ 2 = allow senders only.		S	O
OLD_MULTIMEDIAMESSAGEENABLED	Creates a subscriber with a mailbox account on the MIPS.	The possible values are true/false or 1/0.		S	O
OLD_MAILACCOUNT	Defines the Id of the mail account.			C	O
OLD_MMSBWLISTFILTER	An address filter for a black/white list.			C	O
OLD_COMPOSESMSENABLED	Enables the sending of short messages to SMS.	The possible values are true/false or 1/0.		S	O
OLD_MAILSEARCHENABLED	Enables the message search feature of the MMBox.	The possible values are true/false or 1/0.		S	O
OLD_OPERINDICATION	Defines the operator.	String values.		S	O
OLD_MAILBOXBLOCKED	Determines if the subscriber mailbox is blocked.	0 = Mailbox is not unblocked 1 = Mailbox is blocked		S	O

Table 7: A_CMVT-MMS_3-5-X_ADD-OR-MOD_SUBSCRIBER-RB

Parameter Name	Description	Range	Default Value	Type	Class
OLD_MMBOXACCO UNTENABLED	Determines if the subscriber MMBox account is enabled.	0 = MMBox account is disabled 1 = MMBox account is enable		S	O

MML Commands

This method is used to Create a new subscriber, if not already exists for the given subscriber ID or

Modify the subscriber's data if it already exists.

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</MailAccounts>

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</Filters>

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</MmsBWLists>

</Subscriber>

</Data>

</CompasRequest>

</ComPAS>
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Output Parameters

Return as CSDL parameter

A_CMVT-MMS_2-9_ADD-OR-MOD_SUBSCRIBER-RB_UDET = <user defined exit type>

Return as Info Parameter

A_CMVT-MMS_2-9_ADD-OR-MOD_SUBSCRIBER-RB_RETURNINFO = <ErrorText>

A_CMVT-MMS_3-5-X_ADD_SUBSCRIBER

Add a MMS Subscriber. It is implemented by the Java method
com.metasolv.cartridge.oss.cmvt_mms_3_5_x.prov.SubscriberProvisioning.addSubscriber.

Table 8: A_CMVT-MMS_3-5-X_ADD_SUBSCRIBER

Parameter Name	Description	Range	Default Value	Type	Class
MCLI	The remote network element name.			S	R
PROVISIONINGKEY	Subscriber ID.			S	R
PLMNNAME	The name of the subscriber cellular company.	50 char string.		S	O
PROVISIONINGKEYTYPE	Provisioning Key Type.			S	O
PROVISIONINGENTITYNAME	Provisioning Entity Name			S	O
HOSTREFERENCE	Host Reference.			S	O
MMSENABLED	Determines if the MMS Service is enabled for this subscriber.	The possible values are true/false or 1/0.		S	O
VOICEMAILENABLED	Voice Mail Enabled.	The possible values are true/false or 1/0.		S	O
TUIACCESSENABLED	TUI Access Enabled.	The possible values are true/false or 1/0.		S	O
HANDSETTYPE	Defines the terminal type.	30 char string.		S	R
COUNTRYCODE	Specifies the Country Code.	3 char string.		S	R
MMSADDRESS	Defines the full MMS address of the subscriber in RFC822 format.	325 char string.		S	R

Table 8: A_CMVT-MMS_3-5-X_ADD_SUBSCRIBER

Parameter Name	Description	Range	Default Value	Type	Class
OPERATORCODE	Specifies the operators area code.	3 char string.		S	R
TELEPHONENUMBER	Defines the subscriber main telephone number (MSISDN).	16 char string.		S	O
SUBSCRIBERSERVICEPACKAGEID	Determines the subscriber COS ID for all services.	5 digit integer.		S	O
ISPREPAID	Defines if the subscriber is a prepaid subscriber.	The possible values are true/false or 1/0.		S	O
MMSCOPYTOSENTITEMS	Determines if the subscriber wants to send a copy of each sent message to their sent items folder.	The possible values are true/false or 1/0.		S	O
MMSBWLISTINUSE	BW List type in use where 0 is none, 1 is black and 2 is white.	The possible values are None, Black and White.		S	O
MMSBWLISTENABLED	Determines if the subscriber is allowed to use a BW list.	The possible values are true/false or 1/0.		S	O
MMSMSGDELIVERYREPENABLED	Specifies if user allows sending delivery report.	The possible values are true/false or 1/0.		S	O
DEFAULTREADREPLYREQUEST	Specifies if the user wants to request read-reply by default (without any special action from the user during compose).	The possible values are true/false or 1/0.		S	O

Table 8: A_CMVT-MMS_3-5-X_ADD_SUBSCRIBER

Parameter Name	Description	Range	Default Value	Type	Class
DEFAULTMMSMSG DELIVERYREP	Defines if the user wants to request a delivery report by default (without any special action from the user during compose).	The possible values are true/false or 1/0.		S	O
USERDATA	Text to be reflected in CDR's.	20 char string.		S	O
FAXDOMAIN	FaxDomain is used for Region.	Valid values 1 to 9 or 0 if unknown.		S	O
PAGER	Pager is used for Tax.	Valid values 10 or 15.		S	O
SUBSCRIBERNAME	Defines the subscribers full name.	100 char string.		S	O
FACSIMILETELEPH ONENUMBER	Defines the Fax number.	60 char string.		S	O
INTERNETUSERNA ME	Defines the WEB login user name.	50 char string.		S	O
INTERNETPASSWOR D	Defines the WEB login password.	6-128 char string.		S	O
GLOBALLANGUAG EID	Indicates the default language for all the applications.	10 char string		S	O
OPERINDICATION	Defines the operator.	String values.		S	O
MAILBOXBLOCKED	Determines if the subscriber mailbox is blocked.	0 = Mailbox is not unblocked 1 = Mailbox is blocked		S	O
MMBOXACCOUNTE NABLED	Determines if the subscriber MMBox account is enabled.	0 = MMBox account is disabled 1 = MMBox account is enable		S	O

MML Commands

This method is used to create a subscriber in the remote NE.

```
<ComPAS xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance ">
<CompasRequest>
<Header>
<ProvisioningCommand>Create</ProvisioningCommand>
<ProvisioningKey>[ProvisioningKey]</ProvisioningKey>
<ProvisioningKeyType>[ProvisioningKeyType]</ProvisioningKeyType>
<ProvisioningEntityName>[ProvisioningEntityName]</ProvisioningEntityName>
<HostReference>[HostReference]</HostReference>
</Header>
<Data>
<Subscriber>
<MMSEnabled>[MMSEnabled]</MMSEnabled>
<VoiceMailEnabled>[VoiceMailEnabled]</VoiceMailEnabled>
<TUIAccessEnabled>[TUIAccessEnabled]</TUIAccessEnabled>
<HandsetType>[HandsetType]</HandsetType>
<CountryCode>[CountryCode]</CountryCode>
<MMSAddress>[MMSAddress]</MMSAddress>
<OperatorCode>[OperatorCode]</OperatorCode>
<TelephoneNumber>[TelephoneNumber]</TelephoneNumber>
<SubscriberServicePackageId>[SubscriberServicePackageId]</
SubscriberServicePackageId>
<FaxDomain>[FaxDomain]</FaxDomain>
<Pager>[Pager]</Pager>
<IsPrepaid>[IsPrepaid]</IsPrepaid>
<MmsCopyToSentItems>[MmsCopyToSentItems]</MmsCopyToSentItems>
<MmsBWListInUse>[MmsBWListInUse]</MmsBWListInUse>
<MmsBWListEnabled>[MmsBWListEnabled]</MmsBWListEnabled>
<MmsMsgDeliveryRepEnabled>[MmsMsgDeliveryRepEnabled]</
MmsMsgDeliveryRepEnabled>
<DefaultReadReplyRequest>[DefaultReadReplyRequest]</DefaultReadReplyRequest>
<DefaultMmsMsgDeliveryRep>[DefaultMmsMsgDeliveryRep]</
DefaultMmsMsgDeliveryRep>
<UserData>[UserData]</UserData>
<PlmnName>[PlmnName]</PlmnName>
```

```
</Subscriber>

</Data>

</CompasRequest>

</ComPAS>
```

Output Parameters

Return as CSDL parameter

A_CMVT-MMS_2-9_ADD_SUBSCRIBER_UDET = <user defined exit type>

Return as Info Parameter

A_CMVT-MMS_2-9_ADD_SUBSCRIBER_RETURNINFO = <ErrorText>

A_CMVT-MMS_3-5-X_DEL_SUBSCRIBER

Delete a MMS Subscriber. It is implemented by the Java method
**com.metasolv.cartridge.oss.cmvt_mms_3_5_x.prov.SubscriberProvisioning.delSubscribe
r.**

Table 9: A_CMVT-MMS_3-5-X_DEL_SUBSCRIBER

Parameter Name	Description	Range	Default Value	Type	Class
MCLI	The remote network element name.			S	R
PROVISIONINGKEY	Provisioning Key.			S	R
PROVISIONINGKEY TYPE	Provisioning Key Type.			S	O
PROVISIONINGENTI TYNAME	Provisioning Entity Name.			S	O

MML Commands

```
This command is used to delete a MMS subscriber.


<ComPAS xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

<CompasRequest>

<Header>

<ProvisioningCommand>Delete</ProvisioningCommand>
```

```
<ProvisioningKey>[ProvisioningKey]</ProvisioningKey>

<ProvisioningKeyType>[ProvisioningKeyType]</ProvisioningKeyType>

<ProvisioningEntityName>[ProvisioningEntityName]</ProvisioningEntityName>

</Header>

</CompasRequest>

</ComPAS>
```

Output Parameters

Return as CSDL parameter

A_CMVT-MMS_2-9_DEL_SUBSCRIBER_UDET = <user defined exit type>

Return as Info Parameter

A_CMVT-MMS_2-9_DEL_SUBSCRIBER_RETURNINFO = <ErrorText>

A_CMVT-MMS_3-5-X_MOD_SUBSCRIBER

Modify the MMS Subscriber. It is implemented by the Java method
com.metasolv.cartridge.oss.cmvt_mms_3_5_x.prov.SubscriberProvisioning.modSubscriber.

Table 10: A_CMVT-MMS_3-5-X_MOD_SUBSCRIBER

Parameter Name	Description	Range	Default Value	Type	Class
MCLI	The remote network element name.			S	R
PROVISIONINGKEY	Provisioning Key.			S	R
MMSBWLISTFILTER	Filters.			C	O
PLMNNAME	The name of the subscriber cellular company.	50 char string.		S	O
PROVISIONINGKEY TYPE	Provisioning Key Type.			S	O
PROVISIONINGENTI TYNAME	Provisioning Entity Name.			S	O
HOSTREFERENCE	Host Reference.			S	O

Table 10: A_CMVT-MMS_3-5-X_MOD_SUBSCRIBER

Parameter Name	Description	Range	Default Value	Type	Class
MMSENABLED	Determines if the MMS Service is enabled for this subscriber.	The possible values are true/false or 1/0.		S	O
VOICEMAILENABLED	Voice Mail Enabled.	The possible values are true/false or 1/0.		S	O
TUIACCESSENABLED	TUI Access Enabled.	The possible values are true/false or 1/0.		S	O
HANDSETTYPE	Defines the terminal type.	30 char string.		S	O
COUNTRYCODE	Specifies the Country Code.	3 char string.		S	R
MMSADDRESS	Defines the full MMS address of the subscriber in RFC822 format.	325 char string.		S	R
OPERATORCODE	Specifies the operators area code.	3 char string.		S	R
TELEPHONENUMBER	Defines the subscriber main telephone number (MSISDN).	16 char string.		S	O
SUBSCRIBERSERVICEPACKAGEID	Determines the subscriber COS ID for all services.	5 digit integer.		S	O
ISPREPAID	Defines if the subscriber is a prepaid subscriber.	The possible values are true/false or 1/0.		S	O
MMSCOPYTOSENTITEMS	Determines if the subscriber wants to send a copy of each sent message to their sent items folder.	The possible values are true/false or 1/0.		S	O
MMSBWLISTINUSE	BW List type in use.	The possible values are None, Black and White.		S	O

Table 10: A_CMVT-MMS_3-5-X_MOD_SUBSCRIBER

Parameter Name	Description	Range	Default Value	Type	Class
MMSBWLISTENABLED	Determines if the subscriber is allowed to use a BW list.	The possible values are true/false or 1/0.		S	O
MMSMSGDELIVERYREPENABLED	Specifies if user allows sending delivery report.	The possible values are true/false or 1/0.		S	O
DEFAULTREADREPLYREQUEST	Specifies if the user wants to request read-reply by default (without any special action from the user during compose).	The possible values are true/false or 1/0.		S	O
DEFAULTMMSMSGDELIVERYREP	Defines if the user wants to request a delivery report by default (without any special action from the user during compose).	The possible values are true/false or 1/0.		S	O
USERDATA	Text to be reflected in CDRs.	20 char string.		S	O
FAXDOMAIN	FaxDomain is used for Region.	Valid values 1 to 9 or 0 if unknown.		S	O
PAGER	Pager is used for Tax.	Valid values 10 or 15.		S	O
MMSBWLISTTYPE	The types of list.	The possible values are ◆ 1 = black, ◆ 2 = white, 1|2 = both black and white.		S	O
OPERINDICATION	Defines the operator.	String values.		S	O
MAILBOXBLOCKED	Determines if the subscriber mailbox is blocked.	0 = Mailbox is not unblocked 1 = Mailbox is blocked		S	O

Table 10: A_CMVT-MMS_3-5-X_MOD_SUBSCRIBER

Parameter Name	Description	Range	Default Value	Type	Class
MMBOXACCOUNTE NABLED	Determines if the subscriber MMBox account is enabled.	0 = MMBox account is disabled 1 = MMBox account is enable		S	O

MML Commands

This method is used to Modify the subscriber in the remote NE.

```
<ComPAS xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
<CompasRequest>
<Header>
<ProvisioningCommand>Modify</ProvisioningCommand>
<ProvisioningKey>[ProvisioningKey]</ProvisioningKey>
<ProvisioningKeyType>[ProvisioningKeyType]</ProvisioningKeyType>
<ProvisioningEntityName>[ProvisioningEntityName]</ProvisioningEntityName>
</Header>
<Data>
<Subscriber>
<MMSEnabled>[MMSEnabled]</MMSEnabled>
<VoiceMailEnabled>[VoiceMailEnabled]</VoiceMailEnabled>
<TUIAccessEnabled>[TUIAccessEnabled]</TUIAccessEnabled>
<HandsetType>[HandsetType]</HandsetType>
<CountryCode>[CountryCode]</CountryCode>
<MMSAddress>[MMSAddress]</MMSAddress>
<OperatorCode>[OperatorCode]</OperatorCode>
<TelephoneNumber>[TelephoneNumber]</TelephoneNumber>
<SubscriberServicePackageId>[SubscriberServicePackageId]</
SubscriberServicePackageId>
<FaxDomain>[FaxDomain]</FaxDomain>
<Pager>[Pager]</Pager>
<IsPrepaid>[IsPrepaid]</IsPrepaid>
<MmsCopyToSentItems>[MmsCopyToSentItems]</MmsCopyToSentItems>
```

```
<MmsBWListInUse>[MmsBWListInUse]</MmsBWListInUse>

<MmsBWListEnabled>[MmsBWListEnabled]</MmsBWListEnabled>

<MmsMsgDeliveryRepEnabled>[MmsMsgDeliveryRepEnabled]</
MmsMsgDeliveryRepEnabled>

<DefaultReadReplyRequest>[DefaultReadReplyRequest]</DefaultReadReplyRequest>

<DefaultMmsMsgDeliveryRep>[DefaultMmsMsgDeliveryRep]</
DefaultMmsMsgDeliveryRep>

<UserData>[UserData]</UserData>

<PlmnName>[PlmnName]</PlmnName>

<MmsBWLists>

<MmsBWList>

<Type>[Type]</Type>

<Filters>

<Filter>

<Type>[Type]</Type>

<Values>

<Value Action=["Action"]>[Value]</Value>

<Value Action=["Action"]>[Value]</Value>

</Values>

</Filter>

<Filter>

<Type>[Type]</Type>

<Values>

<Value Action=["Action"]>[Value]</Value>

</Values>

</Filter>

</Filters>

</MmsBWList>

</MmsBWLists>

</Subscriber>

</Data>

</CompasRequest>

</ComPAS>
```

Output Parameters

Return as CSDL parameter

A_CMVT-MMS_2-9_MOD_SUBSCRIBER_UDET =

Return as Info Parameter

A_CMVT-MMS_2-9_MOD_SUBSCRIBER_RETURNINFO = <ErrorText>

A_CMVT-MMS_3-5-X_MOD_SUBSCRIBER-RB

Rollback service for Modify the MMS Subscriber. It is implemented by the Java method **com.metasolv.cartridge.oss.cmvt_mms_3_5_x.prov.SubscriberProvisioning.modSubscriberRB.**

Table 11: A_CMVT-MMS_3-5-X_MOD_SUBSCRIBER-RB

Parameter Name	Description	Range	Default Value	Type	Class
MCLI	The remote network element name.			S	R
PROVISIONINGKEY	Provisioning Key.			S	R
OLD_MMSBWLISTFILTER	Filters.			C	O
OLD_PLMNNAME	The name of the subscriber cellular company.	50 char string.		S	O
OLD_PROVISIONINGKEYTYPE	Provisioning Key Type.			S	O
OLD_PROVISIONINGENTITYNAME	Provisioning Entity Name.			S	O
OLD_HOSTREFERENCE	Host Reference.			S	O
OLD_MMSENABLED	Determines if the MMS Service is enabled for this subscriber.	The possible values are true/false or 1/0.		S	O
OLD_VOICEMAILENABLED	Voice Mail Enabled.	The possible values are true/false or 1/0.		S	O
OLD_TUIACCESSENABLED	TUI Access Enabled.	The possible values are true/false or 1/0.		S	O

Table 11: A_CMVT-MMS_3-5-X_MOD_SUBSCRIBER-RB

Parameter Name	Description	Range	Default Value	Type	Class
OLD_HANDSETTYPE	Defines the terminal type.	30 char string.		S	O
OLD_COUNTRYCODE	Specifies the Country Code.	3 char string.		S	R
OLD_MMSADDRESS	Defines the full MMS address of the subscriber in RFC822 format.	325 char string.		S	R
OLD_OPERATORCODE	Specifies the operators area code.	3 char string.		S	R
OLD_TELEPHONENUMBER	Defines the subscriber main telephone number (MSISDN).	16 char string.		S	O
OLD_SUBSCRIBERSERVICEPACKAGEID	Determines the subscriber COS ID for all services.	5 digit integer.		S	O
OLD_ISPREPAID	Defines if the subscriber is a prepaid subscriber.	The possible values are true/false or 1/0.		S	O
OLD_MMSCOPYTOSENTITEMS	Determines if the subscriber wants to send a copy of each sent message to their sent items folder.	The possible values are true/false or 1/0.		S	O
OLD_MMSBWLISTINUSE	BW List type in use.	The possible values are None, Black and White.		S	O
OLD_MMSBWLISTENABLED	Determines if the subscriber is allowed to use a BW list.	The possible values are true/false or 1/0.		S	O
OLD_MMSMSGDELIVERYREPENABLED	Specifies if user allows sending delivery report.	The possible values are true/false or 1/0.		S	O

Table 11: A_CMVT-MMS_3-5-X_MOD_SUBSCRIBER-RB

Parameter Name	Description	Range	Default Value	Type	Class
OLD_DEFAULTREADREPLYREQUEST	Specifies if the user wants to request read-reply by default (without any special action from the user during compose).	The possible values are true/false or 1/0.		S	O
OLD_DEFAULTMMSMSGDELIVERYREP	Defines if the user wants to request a delivery report by default (without any special action from the user during compose).	The possible values are true/false or 1/0.		S	O
OLD_USERDATA	Text to be reflected in CDRs.	20 char string.		S	O
OLD_FAXDOMAIN	FaxDomain is used for Region.	Valid values 1 to 9 or 0 if unknown.		S	O
OLD_PAGER	Pager is used for Tax.	Valid values 10 or 15.		S	O
OLD_MMSBWLISTTYPE	The types of list.	The possible values are ◆ 1 = black, ◆ 2 = white, 1|2 = both black and white.		S	O
OLD_OPERINDICATION	Defines the operator.	String values.		S	O
OLD_MAILBOXBLOCKED	Determines if the subscriber mailbox is blocked.	0 = Mailbox is not unblocked 1 = Mailbox is blocked		S	O
OLD_MMBOXACCOUNTENABLED	Determines if the subscriber MMBox account is enabled.	0 = MMBox account is disabled 1 = MMBox account is enable		S	O

MML Commands

This method is used to implement the Rollback service of Modify Subscriber.

```
<ComPAS xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance ">

<CompasRequest>

<Header>

<ProvisioningCommand>Modify</ProvisioningCommand>

<ProvisioningKey>[ProvisioningKey]</ProvisioningKey>

<ProvisioningKeyType>[Old_ProvisioningKeyType]</ProvisioningKeyType>

<ProvisioningEntityName>[Old_ProvisioningEntityName]</
ProvisioningEntityName>

</Header>

<Data>

<Subscriber>

<MMSEnabled>[Old_MMSEnabled]</MMSEnabled>

<VoiceMailEnabled>[Old_VoiceMailEnabled]</VoiceMailEnabled>

<TUIAccessEnabled>[Old_TUIAccessEnabled]</TUIAccessEnabled>

<HandsetType>[Old_HandsetType]</HandsetType>

<CountryCode>[Old_CountryCode]</CountryCode>

<MMSAddress>[Old_MMSAddress]</MMSAddress>

<OperatorCode>[Old_OperatorCode]</OperatorCode>

<TelephoneNumber>[Old_TelephoneNumber]</TelephoneNumber>

<SubscriberServicePackageId>[Old_SubscriberServicePackageId]</
SubscriberServicePackageId>

<FaxDomain>[Old_FaxDomain]</FaxDomain>

<Pager>[Old_Pager]</Pager>

<IsPrepaid>[Old_IsPrepaid]</IsPrepaid>

<MmsCopyToSentItems>[Old_MmsCopyToSentItems]</MmsCopyToSentItems>

<MmsBWListInUse>[Old_MmsBWListInUse]</MmsBWListInUse>

<MmsBWListEnabled>[Old_MmsBWListEnabled]</MmsBWListEnabled>

<MmsMsgDeliveryRepEnabled>[Old_MmsMsgDeliveryRepEnabled]</
MmsMsgDeliveryRepEnabled>

<DefaultReadReplyRequest>[Old_DefaultReadReplyRequest]</
DefaultReadReplyRequest>

<DefaultMmsMsgDeliveryRep>[Old_DefaultMmsMsgDeliveryRep]</
DefaultMmsMsgDeliveryRep>

<UserData>[Old_UserData]</UserData>
```

```
<PlmnName>[Old_PlmnName]</PlmnName>

<MmsBWLists>

<MmsBWList>

<Type>[Type]</Type>

<Filters>

<Filter>

<Type>[Type]</Type>

<Values>

<Value Action=["Action"]>[Value]</Value>

<Value Action=["Action"]>[Value]</Value>

</Values>

</Filter>

<Filter>

<Type>[Type]</Type>

<Values>

<Value Action=["Action"]>[Value]</Value>

</Values>

</Filter>

</Filters>

</MmsBWList>

</MmsBWLists>

</Subscriber>

</Data>

</CompasRequest>

</ComPAS>
```

Output Parameters

Return as CSDL parameter

A_CMVT-MMS_2-9_MOD_SUBSCRIBER-RB_UDET = <user defined exit type>

Return as Info Parameter

A_CMVT-MMS_2-9_MOD_SUBSCRIBER-RB_RETURNINFO = <ErrorText>

A_CMVT-MMS_3-5-X_QRY_SUBSCRIBER

Query MMS Subscriber. It is implemented by the Java method
**com.metasolv.cartridge.oss.cmvt_mms_3_5_x.prov.SubscriberProvisioning.qrySubscrib
er.**

Table 12: A_CMVT-MMS_3-5-X_QRY_SUBSCRIBER

Parameter Name	Description	Range	Default Value	Type	Class
MCLI	The remote Network Element name.			S	R
PROVISIONINGKEY	Subscriber Id.			S	R
PROVISIONINGKEY TYPE	Provisioning Key Type.			S	O
PROVISIONINGENTI TYNAME	Provisioning Entity Name.			S	O
RETURN_DATA_PRE FIX	Parameter to identify ASDLs for multiple nodes.			S	O

MML Commands

```
This method is used to retrieve the details of the subscriber from the remote
NE.
```

```
<ComPAS xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

<CompasRequest>

<Header>

<ProvisioningCommand>Retrieve</ProvisioningCommand>

<ProvisioningKey>[ProvisioningKey]</ProvisioningKey>

<ProvisioningKeyType>[ProvisioningKeyType]</ProvisioningKeyType>

<ProvisioningEntityName>[ProvisioningEntityName]</ProvisioningEntityName>

</Header>

</CompasRequest>

</ComPAS>
```

Output Parameters

Return as CSDL parameter

<RETURN_DATA_PREFIX>A_CMVT-MMS_3-5-X_QRY_SUBSCRIBER_UDET = <user defined exit type>

Return as Info Parameter

<RETURN_DATA_PREFIX>A_CMVT-MMS_3-5-X_QRY_SUBSCRIBER_RETURNINFO = <ErrorText>

The CSDL Parameters are :

<RETURN_DATA_PREFIX>PROVISIONINGKEY,

<RETURN_DATA_PREFIX>PROVISIONINGKEYTYPE,

<RETURN_DATA_PREFIX>PROVISIONINGENTITYNAME,

<RETURN_DATA_PREFIX>HOSTREFERENCE,

<RETURN_DATA_PREFIX>TRANSID,

<RETURN_DATA_PREFIX>RESPONSESTATUS,

<RETURN_DATA_PREFIX>GSLSETID,

<RETURN_DATA_PREFIX>GSLSETNAME,

<RETURN_DATA_PREFIX>GSLGROUPID,

<RETURN_DATA_PREFIX>GSLGROUPNAME,

<RETURN_DATA_PREFIX>LOCALMMAENABLED,

<RETURN_DATA_PREFIX>MMSREPLYCHARGETYPE,

<RETURN_DATA_PREFIX>MMSCOMPOSEENABLED,

<RETURN_DATA_PREFIX>MMSREPLYENABLED,

<RETURN_DATA_PREFIX>MMSBWLISTTYPE,

<RETURN_DATA_PREFIX>FILTERTYPE,

<RETURN_DATA_PREFIX>FILTERVALUES,

<RETURN_DATA_PREFIX>TUIACCESSENABLED,

<RETURN_DATA_PREFIX>COUNTRYCODE,

<RETURN_DATA_PREFIX>OPERATORCODE,

<RETURN_DATA_PREFIX>WEBLANGUAGEID,

<RETURN_DATA_PREFIX>SMSLANGUAGEID,

<RETURN_DATA_PREFIX>GLOBALLANGUAGEID,

<RETURN_DATA_PREFIX>MAILACCOUNT.ID,

<RETURN_DATA_PREFIX>MAILACCOUNT.DESCRIPTION,

<RETURN_DATA_PREFIX>MAILACCOUNT.SERVERTYPE,

<RETURN_DATA_PREFIX>MAILACCOUNT.OPERATOREMS,

<RETURN_DATA_PREFIX>MAILACCOUNT.INTERNALEMAILADDRESS,

<RETURN_DATA_PREFIX>MAILACCOUNT.USERNAME,

<RETURN_DATA_PREFIX>MAILACCOUNT.PASSWORD,

<RETURN_DATA_PREFIX>MAILACCOUNT.HOSTID,

<RETURN_DATA_PREFIX>MAILACCOUNT.MESSAGETYPES,

<RETURN_DATA_PREFIX>MAILACCOUNT.NOTIFICATION,

<RETURN_DATA_PREFIX>MAILACCOUNT.PROVISIONING,

<RETURN_DATA_PREFIX>MAILACCOUNT[1].EMAILADDRESS,

..

..

<RETURN_DATA_PREFIX>MAILACCOUNT[n].EMAILADDRESS,

<RETURN_DATA_PREFIX>PLMNNAME,

<RETURN_DATA_PREFIX>MMSENABLED,

<RETURN_DATA_PREFIX>HANDSETTYPE,

<RETURN_DATA_PREFIX>MMSADDRESS,

<RETURN_DATA_PREFIX>TELEPHONENUMBER,

<RETURN_DATA_PREFIX>SUBSCRIBERSERVICEPACKAGEID,

<RETURN_DATA_PREFIX>MMSBWLISTENABLED,

<RETURN_DATA_PREFIX>SUBSCRIBERNAME,

<RETURN_DATA_PREFIX>INTERNETUSERNAME,

<RETURN_DATA_PREFIX>INTERNETPASSWORD,

<RETURN_DATA_PREFIX>EXTERNALSUBSCRIBERID,

<RETURN_DATA_PREFIX>DEFAULTFROMADDRESS,

<RETURN_DATA_PREFIX>SENDSHAREDFOLDERNOTIF,

<RETURN_DATA_PREFIX>SENDMAXMMSMSGSIZE,

<RETURN_DATA_PREFIX>RCVMAXMMSMSGSIZE,

<RETURN_DATA_PREFIX>RECEIVEMMSENABLED,

<RETURN_DATA_PREFIX>MAXNUMMMSSENDATTACH,

<RETURN_DATA_PREFIX>MAXNUMMMSSENDRECIPIENTS,

<RETURN_DATA_PREFIX>SENDTOOTHERRELAYENABLED,

<RETURN_DATA_PREFIX>SENDMMSTOEMAILENABLED,

<RETURN_DATA_PREFIX>SENDMMSMSGTYPESRESTRICTIONS,

<RETURN_DATA_PREFIX>SHAREDFOLDERENABLED,

<RETURN_DATA_PREFIX>RCVMMSMSGTYPESRESTRICTIONS,

<RETURN_DATA_PREFIX>RCVMMSMSGCLASSRESTRICTIONS,

<RETURN_DATA_PREFIX>SECURITYLEVEL,

<RETURN_DATA_PREFIX>SENDTOMMA,

<RETURN_DATA_PREFIX>SENDANONYMOUSENABLED,

<RETURN_DATA_PREFIX>FORWARDENABLED,

<RETURN_DATA_PREFIX>ISPREPAID,

<RETURN_DATA_PREFIX>MMSCOPYTOSENTITEMS,

<RETURN_DATA_PREFIX>MMSBWLISTINUSE,

<RETURN_DATA_PREFIX>MMSMSGDELIVERYREPENABLED,

<RETURN_DATA_PREFIX>DEFAULTREADREPLYREQUEST,

<RETURN_DATA_PREFIX>DEFAULTMMSMSGDELIVERYREP,

<RETURN_DATA_PREFIX>USERDATA,

<RETURN_DATA_PREFIX>FAXDOMAIN,

<RETURN_DATA_PREFIX>PAGER,

<RETURN_DATA_PREFIX>SUBSCRIBERNAME,

<RETURN_DATA_PREFIX>FACSIMILETELEPHONENUMBER,

<RETURN_DATA_PREFIX>DEFAULTREPLYMEDIA,

<RETURN_DATA_PREFIX>FOLDERREVIEWSORTORDERDEFAULT,

<RETURN_DATA_PREFIX>FOLDERREVIEWSORTFIELDDEFAULT,

<RETURN_DATA_PREFIX>RCVANONYMOUSENABLED,

<RETURN_DATA_PREFIX>CNSRECVSFNOTIFICATION,

<RETURN_DATA_PREFIX>CNSACCEPTSFLINK,

<RETURN_DATA_PREFIX>SENDMMSENABLED,

<RETURN_DATA_PREFIX>MMSFWTOALTADDRESS,

<RETURN_DATA_PREFIX>MMSSENDTOMBX,

<RETURN_DATA_PREFIX>COMPOSESMSENABLED,

<RETURN_DATA_PREFIX>MAILSEARCHENABLED,

<RETURN_DATA_PREFIX>MULTIMEDIAMESSAGEENABLED,

<RETURN_DATA_PREFIX>OPERINDICATION,

<RETURN_DATA_PREFIX>MAILBOXBLOCKED,

<RETURN_DATA_PREFIX>MMBOXACCOUNTENABLED.

A_CMVT-MMS_3-5-X_QRY_SUBSCRIBER-RB

Query MMS Subscriber for Rollback action. It is implemented by the Java method **com.metasolv.cartridge.oss.cmvt_mms_3_5_x.prov.SubscriberProvisioning.qrySubscriberRB.**

Table 13: A_CMVT-MMS_3-5-X_QRY_SUBSCRIBER-RB

Parameter Name	Description	Range	Default Value	Type	Class
MCLI	The remote Network Element name.			S	R
PROVISIONINGKEY	Subscriber Id.			S	R
PROVISIONINGKEY TYPE	Provisioning Key Type.			S	O
PROVISIONINGENTI TYNAME	Provisioning Entity Name.			S	O
RETURN_DATA_PRE FIX	Parameter to identify ASDLs for multiple nodes.			S	O

MML Commands

```
This method is used to retrieve the details of the subscriber from the remote
NE.
```

```
<ComPAS xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
```

```
<CompasRequest>

<Header>

<ProvisioningCommand>Retrieve</ProvisioningCommand>

<ProvisioningKey>[ProvisioningKey]</ProvisioningKey>

<ProvisioningKeyType>[ProvisioningKeyType]</ProvisioningKeyType>

<ProvisioningEntityName>[ProvisioningEntityName]</ProvisioningEntityName>

</Header>

</CompasRequest>

</ComPAS>
```

Output Parameters

Return as CSDL parameter

<RETURN_DATA_PREFIX>A_CMVT-MMS_3-5-X_QRY_SUBSCRIBER-RB_UDET = <user defined exit type>

Return as Info Parameter

<RETURN_DATA_PREFIX>A_CMVT-MMS_3-5-X_QRY_SUBSCRIBER-RB_RETURNINFO = <ErrorText>

The CSDL Parameters are :

<RETURN_DATA_PREFIX>OLD_PROVISIONINGKEY,

<RETURN_DATA_PREFIX>OLD_PROVISIONINGKEYTYPE,

<RETURN_DATA_PREFIX>OLD_PROVISIONINGENTITYNAME,

<RETURN_DATA_PREFIX>OLD_HOSTREFERENCE,

<RETURN_DATA_PREFIX>OLD_TRANSID,

<RETURN_DATA_PREFIX>OLD_RESPONSESTATUS,

<RETURN_DATA_PREFIX>OLD_GSLSETID,

<RETURN_DATA_PREFIX>OLD_GSLSETNAME,

<RETURN_DATA_PREFIX>OLD_GSLGROUPID,

<RETURN_DATA_PREFIX>OLD_GSLGROUPNAME,

<RETURN_DATA_PREFIX>OLD_LOCALMMAENABLED,

<RETURN_DATA_PREFIX>OLD_MMSREPLYCHARGETYPE,

<RETURN_DATA_PREFIX>OLD_MMSCOMPOSEENABLED,

<RETURN_DATA_PREFIX>OLD_MMSREPLYENABLED,

<RETURN_DATA_PREFIX>OLD_MMSBWLISTTYPE,

<RETURN_DATA_PREFIX>OLD_FILTERTYPE,

<RETURN_DATA_PREFIX>OLD_FILTERVALUES,

<RETURN_DATA_PREFIX>OLD_TUIACCESSENABLED,

<RETURN_DATA_PREFIX>OLD_COUNTRYCODE,

<RETURN_DATA_PREFIX>OLD_OPERATORCODE,

<RETURN_DATA_PREFIX>OLD_WEBLANGUAGEID,

<RETURN_DATA_PREFIX>OLD_SMSLANGUAGEID,

<RETURN_DATA_PREFIX>OLD_GLOBALLANGUAGEID,

<RETURN_DATA_PREFIX>OLD_MAILACCOUNT.ID,

<RETURN_DATA_PREFIX>OLD_MAILACCOUNT.DESCRIPTION,

<RETURN_DATA_PREFIX>OLD_MAILACCOUNT.SERVERTYPE,

<RETURN_DATA_PREFIX>OLD_MAILACCOUNT.OPERATOREMS,

<RETURN_DATA_PREFIX>OLD_MAILACCOUNT.INTERNALEMAILADDRESS,

<RETURN_DATA_PREFIX>OLD_MAILACCOUNT.USERNAME,

<RETURN_DATA_PREFIX>OLD_MAILACCOUNT.PASSWORD,

<RETURN_DATA_PREFIX>OLD_MAILACCOUNT.HOSTID,

<RETURN_DATA_PREFIX>OLD_MAILACCOUNT.MESSAGETYPES,

<RETURN_DATA_PREFIX>OLD_MAILACCOUNT.NOTIFICATION,

<RETURN_DATA_PREFIX>OLD_MAILACCOUNT.PROVISIONING,

<RETURN_DATA_PREFIX>OLD_MAILACCOUNT[1].EMAILADDRESS,

..

..

<RETURN_DATA_PREFIX>OLD_MAILACCOUNT[n].EMAILADDRESS,

<RETURN_DATA_PREFIX>OLD_PLMNNAME,

<RETURN_DATA_PREFIX>OLD_MMSENABLED,

<RETURN_DATA_PREFIX>OLD_HANDSETTYPE,

<RETURN_DATA_PREFIX>OLD_MMSADDRESS,

<RETURN_DATA_PREFIX>OLD_TELEPHONENUMBER,

<RETURN_DATA_PREFIX>OLD_SUBSCRIBERSERVICEPACKAGEID,

<RETURN_DATA_PREFIX>OLD_MMSBWLISTENABLED,

<RETURN_DATA_PREFIX>OLD_SUBSCRIBERNAME,

<RETURN_DATA_PREFIX>OLD_INTERNETUSERNAME,

<RETURN_DATA_PREFIX>OLD_INTERNETPASSWORD,

<RETURN_DATA_PREFIX>OLD_EXTERNALSUBSCRIBERID,

<RETURN_DATA_PREFIX>OLD_DEFAULTFROMADDRESS,

<RETURN_DATA_PREFIX>OLD_SENDSHAREDFOLDERNOTIF,

<RETURN_DATA_PREFIX>OLD_SENDMAXMMSMSGSIZE,

<RETURN_DATA_PREFIX>OLD_RCVMAXMMSMSGSIZE,

<RETURN_DATA_PREFIX>OLD_RECEIVEMMSENABLED,

<RETURN_DATA_PREFIX>OLD_MAXNUMMMSSENDATTACH,

<RETURN_DATA_PREFIX>OLD_MAXNUMMMSSENDRECIPIENTS,

<RETURN_DATA_PREFIX>OLD_SENDTOOTHERRELAYENABLED,

<RETURN_DATA_PREFIX>OLD_SENDMMSTOEMAILENABLED,

<RETURN_DATA_PREFIX>OLD_SENDMMSMSGTYPESRESTRICTIONS,

<RETURN_DATA_PREFIX>OLD_SHAREDFOLDERENABLED,

<RETURN_DATA_PREFIX>OLD_RCVMMSMSGTYPESRESTRICTIONS,

<RETURN_DATA_PREFIX>OLD_RCVMMSMSGCLASSRESTRICTIONS,

<RETURN_DATA_PREFIX>OLD_SECURITYLEVEL,

<RETURN_DATA_PREFIX>OLD_SENDTOMMA,

<RETURN_DATA_PREFIX>OLD_SENDANONYMOUSENABLED,

<RETURN_DATA_PREFIX>OLD_FORWARDENABLED,

<RETURN_DATA_PREFIX>OLD_ISPREPAID,

<RETURN_DATA_PREFIX>OLD_MMSCOPYTOSENTITEMS,

<RETURN_DATA_PREFIX>OLD_MMSBWLISTINUSE,

<RETURN_DATA_PREFIX>OLD_MMSMSGDELIVERYREPENABLED,

<RETURN_DATA_PREFIX>OLD_DEFAULTREADREPLYREQUEST,

<RETURN_DATA_PREFIX>OLD_DEFAULTMMSMSGDELIVERYREP,

<RETURN_DATA_PREFIX>OLD_USERDATA,

<RETURN_DATA_PREFIX>OLD_FAXDOMAIN,

<RETURN_DATA_PREFIX>OLD_PAGER,

<RETURN_DATA_PREFIX>OLD_SUBSCRIBERNAME,

<RETURN_DATA_PREFIX>OLD_FACSIMILETELEPHONENUMBER,

<RETURN_DATA_PREFIX>OLD_DEFAULTREPLYMEDIA,

<RETURN_DATA_PREFIX>OLD_FOLDERREVIEWSORTORDERDEFAULT,

<RETURN_DATA_PREFIX>OLD_FOLDERREVIEWSORTFIELDDEFAULT,

<RETURN_DATA_PREFIX>OLD_RCVANONYMOUSENABLED,

<RETURN_DATA_PREFIX>OLD_CNSRECVSFNOTIFICATION,

<RETURN_DATA_PREFIX>OLD_CNSACCEPTSFLINK,

<RETURN_DATA_PREFIX>OLD_SENDMMSENABLED,

<RETURN_DATA_PREFIX>OLD_MMSFWTOALTADDRESS,

<RETURN_DATA_PREFIX>OLD_MMSSENDTOMBX,

<RETURN_DATA_PREFIX>OLD_COMPOSESMSENABLED,

<RETURN_DATA_PREFIX>OLD_MAILSEARCHENABLED,

<RETURN_DATA_PREFIX>OLD_MULTIMEDIAMESSAGEENABLED,

<RETURN_DATA_PREFIX>OLD_OPERINDICATION,

<RETURN_DATA_PREFIX>OLD_MAILBOXBLOCKED,

<RETURN_DATA_PREFIX>OLD_MMBOXACCOUNTENABLED.

User exit types

User exit types allow cartridge developers and systems administrators to map ASDL exit codes to one of the predefined base exit types. Base exit types determine the product behavior. Cartridges map return codes and status values from a network element to a user defined exit type.

Regular expressions (regex) are used to perform pattern searches on responses from network elements. The pattern is stored in "tbl_user_err" in the SARM database. The user exit type contains a regex pattern that is applied at runtime.

Regular expressions enable users to associate a series of responses to a specific base type. For example, a regular expression "6." can identify a pattern where any response with the character "6" followed by any number of characters will translate to base type of FAIL.

Regular expressions can also allow very specific searches within a response from a network element. Regular expressions are typically compiled before being executed. Compilation produces a binary version of the expression and ensures that the syntax of the regular expression is correct. This compilation occurs using SACT\SADT when user exit types are deployed into ASAP. If the syntax is deemed to be incorrect during compilation, SADT displays an error message and the deployment of the user exit type will fail.

For more information on pattern matching, refer to the *ASAP Developer Reference* and the *ASAP Administration Guide*.

Understanding user exit type XML files

```
…
<userDefinedExitType>
    <neDescriptor>
        <softwareLoad>DYNAMIC_SL</softwareLoad>
        <technology>DYNAMIC_VENDOR-DYNAMIC_TECH</technology>
    </neDescriptor>
    <searchPattern>SUCCESS.</searchPattern>[1]
    <userType>U_SUCCEED</userType>[2]
    <baseType>SUCCEED</baseType>[3]
    <description>The ASDL provisioning was successful</description>
</userDefinedExitType>
```

---

1. Pattern searches accommodate situations in which responses from the device contain small variants that represent the same meaning. The user type contains an associated search pattern that is applied at runtime. Using regular expressions, you can default a series of responses. For example a regular expression "90." can specify a pattern where any response with the character "90" followed by any character will translate to base type of FAIL. If the regular expression is defined as "90*", then any response with the character "90" followed by any number of characters will translate to base type of FAIL
2. The user type that the search pattern maps to.
3. The base type that maps to the user type.

```
<userDefinedExitType>
    <searchPattern>90.</searchPattern>
    <userType>U_FAIL</userType>
    <baseType>FAIL</baseType>
    <description>The ASDL failed - fail the current order
        and stop processing.</description>
</userDefinedExitType>
<userDefinedExitType>

    <searchPattern>101-110[201-215]</searchPattern>[1]
    <userType>U_SOFT_FAIL</userType>
    <baseType>SOFT_FAIL</baseType>
    <description>The ASDL has encountered a soft failure. Processing will
        continue.</description>
</userDefinedExitType>
<userDefinedExitType>

    <searchPattern>801-850</searchPattern>[2]
    <userType>U_MINOR_ERROR</userType>
    <baseType>SOFT_FAIL</baseType>
    <description>The ASDL has encountered a soft failure. Processing will
        continue.</description>
</userDefinedExitType>
<userDefinedExitType>

    <searchPattern>251-275&&[^261-265]</searchPattern>[3]
    <userType>U_DELAYED_FAIL</userType>
    <baseType>DELAYED_FAIL</baseType>
    <description>The ASDL has failed during provisioning.</description>
</userDefinedExitType>
<userDefinedExitType>
    <neDescriptor>
        <softwareLoad>BCS36</softwareLoad>
        <technology>NORTEL_DMS</technology>
        <neVendor>Nortel</neVendor>
    </neDescriptor>
    <searchPattern>*.</searchPattern>
    <userType>U_MAINTAIN</userType>
    <baseType>MAINTENANCE</baseType>
    <description>The ASDL will Wait until the NE comes out of
        Maintenance Mode</description>
</userDefinedExitType>
```

The previous code sample shows some typical search pattern examples. Some additional examples follow:

◆ ^.*\b(one|two|three)\b.*$ = matches a complete line of text that contains any of the words "one", "two" or "three"

---

1. 101 to 110 and 201 to 215 will translate to a base type of SOFT_FAIL
2. 801-850 will translate to a base type of SOFT_FAIL. Note that the user type differs from the previous range.
3. 251 to 275 but not 261 to 265 will translate to a base type of DELAYED_FAILURE.

- ◆ ^(?=.*?\bone\b)(?=.*?\btwo\b)(?=.*?\bthree\b).*$ matches a complete line of text that contains all of the words "one", "two" and "three"
- ◆ "[^"\r\n]*" matches a single-line string that does not allow the quote character to appear inside the string.
- ◆ \b\d{1,3}\.\d{1,3}\.\d{1,3}\.\d{1,3}\b matches any IP address.

For more information on search patterns, refer to http://java.sun.com/j2se/1.4.2/docs/api/java/util/regex/Pattern.html.

For more information on user exit types, refer to chapter 3 of the *ASAP Developer Reference*.

User defined ASDL exit types

The following table lists the user defined ASDL exit types

Table 14: User defined ASDL exit types

Search Pattern	User Defined Exit Type	Base Exit Type	Description
((?s).)*Success((?s).)*	CMVT_SUCCEED	SUCCEED	Provisioning success.
((?s).)*10001010((?s).)*	CMVT_ROLLBACK_FAILED	FAIL	Commit/Rollback failure - possible loss in data integrity.
((?s).)*11001000((?s).)*	CMVT_REF_DISABLED	FAIL	The command refers to a disabled service.
((?s).)*11001001((?s).)*	CMVT_NOT_IN_GSLSETID	FAIL	Service enabled by the field is not included in GSLset ID.
((?s).)*11001003((?s).)*	FIELD_NOT_SUPPORTED	FAIL	Field is not supported by the current ComPASconfiguration.
((?s).)*11001004((?s).)*	CMD_NOT_SUPPORTED	FAIL	Command is not supported by service.
((?s).)*11001005((?s).)*	CMVT_NOT_ASSOCIATED	FAIL	The [GslSetName]/ [GslSetId] is not associated to the [GslGropupName]/ [GslGroupId].
((?s).)*11001006((?s).)*	PROV_KEY_NOT_FOUND	FAIL	The [prov key type] [prov key value] was not found.

Table 14: User defined ASDL exit types

Search Pattern	User Defined Exit Type	Base Exit Type	Description
((?s).)*11001007((?s).)*	CMDTYP_NOT_SUPPORTED	FAIL	The command type is not supported.
((?s).)*11001008((?s).)*	INVALID_DATAOFSERVCE	FAIL	Request contains data of service which is not part of the GSL set.
((?s).)*11001010((?s).)*	CMVT_HIA_SYNTAX_ERR	FAIL	HIA syntax error found.
((?s).)*11001015((?s).)*	KEYTYP_NOT_SUPPORTED	FAIL	Provisioning key type is not supported by this version of ComPAS.
((?s).)*11001021((?s).)*	INVALID_MIPS_DATA	FAIL	MIPS data cannot be provided for a non-provisioned MA.
((?s).)*11001022((?s).)*	CMVT_PARSE_FAILED	FAIL	ComPAS failed to parse the provisioning request.
((?s).)*11001023((?s).)*	CMVT_INVALID_MAID	FAIL	MIPS data cannot be provided without specifying the related MA ID.
((?s).)*13001031((?s).)*	CMVT_UNAVAILABLE	FAIL	ComPAS temporarily unavailable. Contact the system administrator.
((?s).)*13001033((?s).)*	CMVT_PA_TIMEOUT	FAIL	PA timeout.
((?s).)*13001200((?s).)*	PROVKEY_TYP_LOCKED	FAIL	The [provkey type] is currently locked. Try again later.
((?s).)*15001000((?s).)*	SEND_TO_PAS_FAILED	FAIL	Failed to send provisioning command to the Provisioning Agent/s (PAs).
((?s).)*15001201((?s).)*	INTERNID_CREATE_FAIL	FAIL	Failed to create an internal ID for the Subscriber.

Table 14: User defined ASDL exit types

Search Pattern	User Defined Exit Type	Base Exit Type	Description
((?s).)*15001202((?s).)*	ENTITY_LOCK_FAILED	FAIL	Failed to lock [prov key] entity.
((?s).)*15001203((?s).)*	ENTITY_UNLOCK_FAILED	FAIL	Failed to unlock [prov key] entity.
((?s).)*15001204((?s).)*	ENTITY_LCKCHK_FAILED	FAIL	Failed to check if entity locked.
((?s).)*11005000((?s).)*	XML_SCHEMA_ERROR	FAIL	XML Schema validation error.
((?s).)*11005001((?s).)*	REQD_FIELDS_MISSING	FAIL	Provisioning request is missing required field(s).
((?s).)*11005002((?s).)*	CMVT_ILLEGAL_FIELDS	FAIL	Provisioning request contains illegal field.
((?s).)*11005003((?s).)*	CANT_INCLUDE_FIELDS	FAIL	The command cannot include the field(s).
((?s).)*11005004((?s).)*	CANT_SEND_TOGETHER	FAIL	Field cannot be sent together with field(s).
((?s).)*11005005((?s).)*	CMVT_ILLEGAL_VALUE	FAIL	Provisioning request contains field with illegal value.
((?s).)*11005007((?s).)*	CMVT_MUST_NOT_EMPTY	FAIL	Field must not contain empty value.
((?s).)*11005009((?s).)*	CMVT_KEY_IN_USE	FAIL	Key is already in use as unique key.
((?s).)*11005010((?s).)*	CMVT_DATA_NOT_INCL	FAIL	Command must not include data.
((?s).)*11005011((?s).)*	CMVT_ILLEGAL_CMDTYPE	FAIL	Command contains illegal field(s).
((?s).)*11005012((?s).)*	INCORRECT_CREDENTIAL	FAIL	Incorrect credentials.

Table 14: User defined ASDL exit types

Search Pattern	User Defined Exit Type	Base Exit Type	Description
((?s).)*11005013((?s).)*	REQ_CANT_EXP_ACTION	FAIL	Request cannot contain explicit action on fields while higher level command is notmodify/ update.
((?s).)*12005000((?s).)*	CMVT_ILLEGAL_VALUE	FAIL	Parameter is set with illegal value.
((?s).)*12005002((?s).)*	DOMAIN_DOESNOT_EXIST	FAIL	The domain does not exist in the given GSL set ID.
((?s).)*12005050((?s).)*	CANT_LOCATE_GSLSET	FAIL	The ComPAS could not locate GSL set with configured EmsDistributionList PA.
((?s).)*12005100((?s).)*	MIPS_SETUP_ERROR	FAIL	MIPS setup error.
((?s).)*12005101((?s).)*	CANT_LOCATE_MIPS_PRT	FAIL	Could not locate legal MIPS port.
((?s).)*13005001((?s).)*	MIPS_UNAVAILABILITY.	FAIL	MIPS unavailability.
((?s).)*14005003((?s).)*	UNKNOWN_PROC_ERROR	FAIL	Stored procedure returned an unknown error.
((?s).)*14005004((?s).)*	DB_EXEC_FAILED	FAIL	Database execution failed.
((?s).)*14005005((?s).)*	TRANS_EXEC_FAILED	FAIL	Commit/Rollback transaction execution failed.
((?s).)*14005006((?s).)*	CREATE_DB_TRANS_FAIL	FAIL	Failed to create DB transaction.
((?s).)*14005011((?s).)*	MIPS_DATASTORE_ERROR	FAIL	MIPS datastore error.
((?s).)*15005000((?s).)*	INTERNAL_APP_ERROR	FAIL	Internal application error.

Table 14: User defined ASDL exit types

Search Pattern	User Defined Exit Type	Base Exit Type	Description
((?s).)*15005001((?s).)*	READ_PARAM_ERROR	FAIL	Error in reading parameter.
((?s).)*15005003((?s).)*	TRANS_OBJ_NOT_FOUND	FAIL	Transaction object was not found.
((?s).)*15005004((?s).)*	CANT_SET_DIS_FIELD	FAIL	The field cannot be set, since the field is disabled.
((?s).)*15005005((?s).)*	CANT_LOCATE_COS_ID	FAIL	Could not locate COS type ID with a matching subscriber package ID.
((?s).)*15005006((?s).)*	INCORRECT_PARAM_TYPE	FAIL	Required parameter field is not the correct type.
((?s).)*15005007((?s).)*	CREATE_DOC_FAILED	FAIL	ComPAS failed to create required XML document object, possibly due to overload.
((?s).)*20005001((?s).)*	DEL_ENTRY_NOT_EXIST	FAIL	Deleted entry did not exist on entity.
((?s).)*11009000((?s).)*	CANT_UPDATE_BW_LIST	FAIL	Cannot update/remove B/W (black/white) list in create command.
((?s).)*11009001((?s).)*	CANT_SET_MMS_EXIST	FAIL	Cannot set value of [MultiMediaMessage Enabled]/[MMSSendTo Mbx] because copy/divert is active and neither MMSAltFwToAddr nor mail account exist.
((?s).)*11009002((?s).)*	BW_FILTER_NOT_EXIST	FAIL	B/W filter (Address/Domain/PhoneNumber) does not exist in MMS B/W lists.
((?s).)*11009004((?s).)*	BW_LIST_NOT_EXIST	FAIL	B/W list does not exist in MMS B/W list.

Table 14: User defined ASDL exit types

Search Pattern	User Defined Exit Type	Base Exit Type	Description
((?s).)*20009001((?s).)*	BW_LIST_FILTER_EXIST	FAIL	B/W list filter already exists.
((?s).)*20009002((?s).)*	ALL_BW_FILTERS_EXIST	FAIL	All B/W filters already exist.
((?s).)*11008000((?s).)*	DIABLED_MSG_TYPE	FAIL	Request contains disabled message type data.
((?s).)*11008002((?s).)*	MIPS_PA_NOT_SUPPORT	FAIL	Request contains message type data that the MIPS PA does not support.
((?s).)*12008001((?s).)*	NO_MIPS_COS_ID	FAIL	Could not locate matched MIPS COS ID.
((?s).)*12008002((?s).)*	NO_NDS_DOMAIN	FAIL	Could not locate NDS Domain.
((?s).)*12008003((?s).)*	NO_MIPS_DOMAIN	FAIL	Could not locate matched MIPS domain in GSL data.
((?s).)*12008004((?s).)*	EMAIL_NOT_VALID	FAIL	New email address is not part of the mail account domain and is not valid.
((?s).)*24008001((?s).)*	DEL_FOLDER_FAILED	FAIL	Failed to perform the folder/s deletion handling failure cause.
((?s).)*24008002((?s).)*	MIPS_DEL_FOLDER_FAIL	FAIL	Failed to delete the folder from the MIPS.
((?s).)*11002000((?s).)*	GCHID_FIELDS_MISSING	FAIL	GCHID command is missing required field/s.
((?s).)*11002002((?s).)*	NO_MAIL_ACCOUNT_ID	FAIL	Could not locate ID for the MailAccount.
((?s).)*11002003((?s).)*	NO_MATCH_DB_VALUE	FAIL	Value of the field does not match the valid values in the DB.

Table 14: User defined ASDL exit types

Search Pattern	User Defined Exit Type	Base Exit Type	Description
((?s).)*11002004((?s).)*	CANT_DEL_ENABLED _FLD	FAIL	Field cannot be deleted since the field/s is/are enabled.
((?s).)*11002005((?s).)*	HEXA_CONVERT_FAIL ED	FAIL	Failed to convert the field with value into a hexadecimal value.
((?s).)*11002006((?s).)*	CONTRA_PROV_KEY_ VAL	FAIL	The provisioning key type value, which is set to be the provisioning key type, contradicts the provisioning key value.
((?s).)*11002007((?s).)*	EMTY_FLD_CANT_EN ABLE	FAIL	Field cannot be enabled if the field is empty.
((?s).)*11002008((?s).)*	DIS_FLD_CANT_ENAB LE	FAIL	Field cannot be enabled if the field is disabled.
((?s).)*11002009((?s).)*	ENABLE_FLD_CANT_ DIS	FAIL	Field cannot be disabled if the field is enabled.
((?s).)*11002011((?s).)*	MOD_MA_CANT_EQV _MIPS	FAIL	MailAccount/HostId value of a modified MA cannot be equal to the MIPS domain.
((?s).)*11002012((?s).)*	CANT_SET_OPR_MAIL _ID	FAIL	Field cannot be set in an operator mail account ID.
((?s).)*11002013((?s).)*	EMAILENABLE_DISAB LED	FAIL	MA cannot be created since the EmailEnabled field is disabled.
((?s).)*11002014((?s).)*	NO_FIELD_VALUE_MA TCH	FAIL	Field cannot be set to since it does not match the value/s of the field/s.
((?s).)*11002015((?s).)*	NEW_MA_DONOT_MA TCH	FAIL	New MA addresses do not match the value of the field.

Table 14: User defined ASDL exit types

Search Pattern	User Defined Exit Type	Base Exit Type	Description
((?s).)*11002016((?s).)*	FIELD_HAS_NO_VALUE	FAIL	Field could not be set since the field has no value.
((?s).)*11002017((?s).)*	NOT_VALID_MAIL_ID	FAIL	Creation of new mail account with ID is not valid and must be larger than 3.
((?s).)*11002018((?s).)*	MA_ID_IS_OPR_ACC	FAIL	MA ID is an operator mail account and can be created/deleted only by enabling/disabling its related service.
((?s).)*11002031((?s).)*	UNIQUE_FIELD_EXIST	FAIL	One of the unique fields already exists in the DB and cannot be duplicated.
((?s).)*12002005((?s).)*	NO_MAIL_DOMAIN	FAIL	Could not locate mail address domain for the MA type [Email only/ email/voice] MA in the configuration file.
((?s).)*12002006((?s).)*	NO_MIPS_DOMAIN	FAIL	Enable flag which triggers Operator MA creation cannot be triggered since there is no MIPSdomain in the GSL set.
((?s).)*IOException((?s).)*	CMVT_IO_EXCPTION	RETRY_DIS	The NE command was denied due to IO exception.
((?s).)*ProvCartridgeException((?s).)*	CMVT_PROV_EXCPTION	FAIL	The NE command was denied due to provisioning cartridge exception.
((?s).)*Generic Exception((?s).)*	CMVT_EXCEPTION	FAIL	The NE command was denied due to general exception.

UserExitType.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<serviceModel xmlns="http://www.metasolv.com/ServiceActivation/2003/
ServiceModel">
<userDefinedExitType>
<neDescriptor>
<softwareLoad>3-5-X</softwareLoad>
<technology>MMS</technology>
<neVendor>CMVT</neVendor>
</neDescriptor>
<searchPattern>((?s).)*Success((?s).)*</searchPattern>
<userType>CMVT_SUCCEED</userType>
<baseType>SUCCEED</baseType>
<description>Provisioning success.</description>
</userDefinedExitType>
<userDefinedExitType>
<neDescriptor>
<softwareLoad>3-5-X</softwareLoad>
<technology>MMS</technology>
<neVendor>CMVT</neVendor>
</neDescriptor>
<searchPattern>((?s).)*10001010((?s).)*</searchPattern>
<userType>CMVT_ROLLBACK_FAILED</userType>
<baseType>FAIL</baseType>
<description>Commit/Rollback failure - possible loss indata
integrity.</description>
</userDefinedExitType>
<userDefinedExitType>
<neDescriptor>
<softwareLoad>3-5-X</softwareLoad>
<technology>MMS</technology>
<neVendor>CMVT</neVendor>
</neDescriptor>
<searchPattern>((?s).)*11001000((?s).)*</searchPattern>
<userType>CMVT_REF_DISABLED</userType>
<baseType>FAIL</baseType>
```

```
<description>The command refers to a disabled service.</description>
</userDefinedExitType>
<userDefinedExitType>
<neDescriptor>
<softwareLoad>3-5-X</softwareLoad>
<technology>MMS</technology>
<neVendor>CMVT</neVendor>
</neDescriptor>
<searchPattern>((?s).)*11001001((?s).)*</searchPattern>
<userType>CMVT_NOT_IN_GSLSETID</userType>
<baseType>FAIL</baseType>
<description>Service enabled by the field is not included in GSLset
ID.</description>
</userDefinedExitType>
<userDefinedExitType>
<neDescriptor>
<softwareLoad>3-5-X</softwareLoad>
<technology>MMS</technology>
<neVendor>CMVT</neVendor>
</neDescriptor>
<searchPattern>((?s).)*11001003((?s).)*</searchPattern>
<userType>FIELD_NOT_SUPPORTED</userType>
<baseType>FAIL</baseType>
<description>Field is not supported by the current
ComPASconfiguration.</description>
</userDefinedExitType>
<userDefinedExitType>
<neDescriptor>
<softwareLoad>3-5-X</softwareLoad>
<technology>MMS</technology>
<neVendor>CMVT</neVendor>
</neDescriptor>
<searchPattern>((?s).)*11001004((?s).)*</searchPattern>
<userType>CMD_NOT_SUPPORTED</userType>
<baseType>FAIL</baseType>
<description>Command is not supported by service.</description>
```

```
</userDefinedExitType>
<userDefinedExitType>
<neDescriptor>
<softwareLoad>3-5-X</softwareLoad>
<technology>MMS</technology>
<neVendor>CMVT</neVendor>
</neDescriptor>
<searchPattern>((?s).)*11001005((?s).)*</searchPattern>
<userType>CMVT_NOT_ASSOCIATED</userType>
<baseType>FAIL</baseType>
<description>The [GslSetName]/[GslSetId] is not associated to the
[GslGropupName]/[GslGroupId].</description>
</userDefinedExitType>
<userDefinedExitType>
<neDescriptor>
<softwareLoad>3-5-X</softwareLoad>
<technology>MMS</technology>
<neVendor>CMVT</neVendor>
</neDescriptor>
<searchPattern>((?s).)*11001006((?s).)*</searchPattern>
<userType>PROV_KEY_NOT_FOUND</userType>
<baseType>FAIL</baseType>
<description>The [prov key type] [prov key value] was not found.</
description>
</userDefinedExitType>
<userDefinedExitType>
<neDescriptor>
<softwareLoad>3-5-X</softwareLoad>
<technology>MMS</technology>
<neVendor>CMVT</neVendor>
</neDescriptor>
<searchPattern>((?s).)*11001007((?s).)*</searchPattern>
<userType>CMDTYP_NOT_SUPPORTED</userType>
<baseType>FAIL</baseType>
<description>The command type is not supported.</description>
</userDefinedExitType>
```

```
<userDefinedExitType>
<neDescriptor>
<softwareLoad>3-5-X</softwareLoad>
<technology>MMS</technology>
<neVendor>CMVT</neVendor>
</neDescriptor>
<searchPattern>((?s).)*11001008((?s).)*</searchPattern>
<userType>INVALID_DATAOFSERVCE</userType>
<baseType>FAIL</baseType>
<description>Request contains data of service which is not part of
the GSL set.</description>
</userDefinedExitType>
<userDefinedExitType>
<neDescriptor>
<softwareLoad>3-5-X</softwareLoad>
<technology>MMS</technology>
<neVendor>CMVT</neVendor>
</neDescriptor>
<searchPattern>((?s).)*11001010((?s).)*</searchPattern>
<userType>CMVT_HIA_SYNTAX_ERR</userType>
<baseType>FAIL</baseType>
<description>HIA syntax error found.</description>
</userDefinedExitType>
<userDefinedExitType>
<neDescriptor>
<softwareLoad>3-5-X</softwareLoad>
<technology>MMS</technology>
<neVendor>CMVT</neVendor>
</neDescriptor>
<searchPattern>((?s).)*11001015((?s).)*</searchPattern>
<userType>KEYTYP_NOT_SUPPORTED</userType>
<baseType>FAIL</baseType>
<description>Provisioning key type is not supported by this version
of ComPAS.</description>
</userDefinedExitType>
<userDefinedExitType>
```

```
<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*11001021((?s).)*</searchPattern>

<userType>INVALID_MIPS_DATA</userType>

<baseType>FAIL</baseType>

<description>MIPS data cannot be provided for a non-provisioned

MA.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*11001022((?s).)*</searchPattern>

<userType>CMVT_PARSE_FAILED</userType>

<baseType>FAIL</baseType>

<description>ComPAS failed to parse the provisioning request.</

description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*11001023((?s).)*</searchPattern>

<userType>CMVT_INVALID_MAID</userType>

<baseType>FAIL</baseType>

<description>MIPS data cannot be provided without specifying the

related MA ID.</description>

</userDefinedExitType>

<userDefinedExitType>
```

```
<neDescriptor>
<softwareLoad>3-5-X</softwareLoad>
<technology>MMS</technology>
<neVendor>CMVT</neVendor>
</neDescriptor>
<searchPattern>((?s).)*13001031((?s).)*</searchPattern>
<userType>CMVT_UNAVAILABLE</userType>
<baseType>FAIL</baseType>
<description>ComPAS temporarily unavailable. Contact the system
administrator.</description>
</userDefinedExitType>
<userDefinedExitType>
<neDescriptor>
<softwareLoad>3-5-X</softwareLoad>
<technology>MMS</technology>
<neVendor>CMVT</neVendor>
</neDescriptor>
<searchPattern>((?s).)*13001033((?s).)*</searchPattern>
<userType>CMVT_PA_TIMEOUT</userType>
<baseType>FAIL</baseType>
<description>PA timeout.</description>
</userDefinedExitType>
<userDefinedExitType>
<neDescriptor>
<softwareLoad>3-5-X</softwareLoad>
<technology>MMS</technology>
<neVendor>CMVT</neVendor>
</neDescriptor>
<searchPattern>((?s).)*13001200((?s).)*</searchPattern>
<userType>PROVKEY_TYP_LOCKED</userType>
<baseType>FAIL</baseType>
<description>The [provkey type] is currently locked. Try again
later.</description>
</userDefinedExitType>
<userDefinedExitType>
<neDescriptor>
```

```
<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*15001000((?s).)*</searchPattern>

<userType>SEND_TO_PAS_FAILED</userType>

<baseType>FAIL</baseType>

<description>Failed to send provisioning command to the Provisioning
Agent/s (PAs).</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*15001201((?s).)*</searchPattern>

<userType>INTERNID_CREATE_FAIL</userType>

<baseType>FAIL</baseType>

<description>Failed to create an internal ID for the Subscriber.</
description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*15001202((?s).)*</searchPattern>

<userType>ENTITY_LOCK_FAILED</userType>

<baseType>FAIL</baseType>

<description>Failed to lock [prov key] entity.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>
```

```
<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*15001203((?s).)*</searchPattern>

<userType>ENTITY_UNLOCK_FAILED</userType>

<baseType>FAIL</baseType>

<description>Failed to unlock [prov key] entity.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*15001204((?s).)*</searchPattern>

<userType>ENTITY_LCKCHK_FAILED</userType>

<baseType>FAIL</baseType>

<description>Failed to check if entity locked.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*11005000((?s).)*</searchPattern>

<userType>XML_SCHEMA_ERROR</userType>

<baseType>FAIL</baseType>

<description>XML Schema validation error.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>
```

```
<searchPattern>((?s).)*11005001((?s).)*</searchPattern>
<userType>REQD_FIELDS_MISSING</userType>
<baseType>FAIL</baseType>
<description>Provisioning request is missing required field(s).</
description>
</userDefinedExitType>
<userDefinedExitType>
<neDescriptor>
<softwareLoad>3-5-X</softwareLoad>
<technology>MMS</technology>
<neVendor>CMVT</neVendor>
</neDescriptor>
<searchPattern>((?s).)*11005002((?s).)*</searchPattern>
<userType>CMVT_ILLEGAL_FIELDS</userType>
<baseType>FAIL</baseType>
<description>Provisioning request contains illegal field.</
description>
</userDefinedExitType>
<userDefinedExitType>
<neDescriptor>
<softwareLoad>3-5-X</softwareLoad>
<technology>MMS</technology>
<neVendor>CMVT</neVendor>
</neDescriptor>
<searchPattern>((?s).)*11005003((?s).)*</searchPattern>
<userType>CANT_INCLUDE_FIELDS</userType>
<baseType>FAIL</baseType>
<description>The command cannot include the field(s).</description>
</userDefinedExitType>
<userDefinedExitType>
<neDescriptor>
<softwareLoad>3-5-X</softwareLoad>
<technology>MMS</technology>
<neVendor>CMVT</neVendor>
</neDescriptor>
<searchPattern>((?s).)*11005004((?s).)*</searchPattern>
```

```
<userType>CANT_SEND_TOGETHER</userType>

<baseType>FAIL</baseType>

<description>Field cannot be sent together with field(s).</

description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*11005005((?s).)*</searchPattern>

<userType>CMVT_ILLEGAL_VALUE</userType>

<baseType>FAIL</baseType>

<description>Provisioning request contains field with illegal

value.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*11005007((?s).)*</searchPattern>

<userType>CMVT_MUST_NOT_EMPTY</userType>

<baseType>FAIL</baseType>

<description>Field must not contain empty value.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*11005009((?s).)*</searchPattern>

<userType>CMVT_KEY_IN_USE</userType>
```

```
<baseType>FAIL</baseType>

<description>Key is already in use as unique key.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*11005010((?s).)*</searchPattern>

<userType>CMVT_DATA_NOT_INCL</userType>

<baseType>FAIL</baseType>

<description>Command must not include data.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*11005011((?s).)*</searchPattern>

<userType>CMVT_ILLEGAL_CMDTYPE</userType>

<baseType>FAIL</baseType>

<description>Command contains illegal field(s).</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*11005012((?s).)*</searchPattern>

<userType>INCORRECT_CREDENTIAL</userType>

<baseType>FAIL</baseType>

<description>Incorrect credentials.</description>

</userDefinedExitType>
```

```
<userDefinedExitType>
<neDescriptor>
<softwareLoad>3-5-X</softwareLoad>
<technology>MMS</technology>
<neVendor>CMVT</neVendor>
</neDescriptor>
<searchPattern>((?s).)*11005013((?s).)*</searchPattern>
<userType>REQ_CANT_EXP_ACTION</userType>
<baseType>FAIL</baseType>
<description>Request cannot contain explicit action on fields while
higher level command is notmodify/update.</description>
</userDefinedExitType>
<userDefinedExitType>
<neDescriptor>
<softwareLoad>3-5-X</softwareLoad>
<technology>MMS</technology>
<neVendor>CMVT</neVendor>
</neDescriptor>
<searchPattern>((?s).)*12005000((?s).)*</searchPattern>
<userType>CMVT_ILLEGAL_VALUE</userType>
<baseType>FAIL</baseType>
<description>Parameter is set with illegal value.</description>
</userDefinedExitType>
<userDefinedExitType>
<neDescriptor>
<softwareLoad>3-5-X</softwareLoad>
<technology>MMS</technology>
<neVendor>CMVT</neVendor>
</neDescriptor>
<searchPattern>((?s).)*12005002((?s).)*</searchPattern>
<userType>DOMAIN_DOESNOT_EXIST</userType>
<baseType>FAIL</baseType>
<description>The domain does not exist in the given GSL set ID.</
description>
</userDefinedExitType>
<userDefinedExitType>
```

```
<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*12005050((?s).)*</searchPattern>

<userType>CANT_LOCATE_GSLSET</userType>

<baseType>FAIL</baseType>

<description>The ComPAS could not locate GSL set with configured

EmsDistributionList PA.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*12005100((?s).)*</searchPattern>

<userType>MIPS_SETUP_ERROR</userType>

<baseType>FAIL</baseType>

<description>MIPS setup error.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*12005101((?s).)*</searchPattern>

<userType>CANT_LOCATE_MIPS_PRT</userType>

<baseType>FAIL</baseType>

<description>Could not locate legal MIPS port.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>
```

```
<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*13005001((?s).)*</searchPattern>

<userType>MIPS_UNAVAILABILITY.</userType>

<baseType>FAIL</baseType>

<description>MIPS unavailability.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*14005003((?s).)*</searchPattern>

<userType>UNKNOWN_PROC_ERROR</userType>

<baseType>FAIL</baseType>

<description>Stored procedure returned an unknown error.</
description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*14005004((?s).)*</searchPattern>

<userType>DB_EXEC_FAILED</userType>

<baseType>FAIL</baseType>

<description>Database execution failed.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>
```

```
</neDescriptor>

<searchPattern>((?s).)*14005005((?s).)*</searchPattern>

<userType>TRANS_EXEC_FAILED</userType>

<baseType>FAIL</baseType>

<description>Commit/Rollback transaction execution failed.</

description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*14005006((?s).)*</searchPattern>

<userType>CREATE_DB_TRANS_FAIL</userType>

<baseType>FAIL</baseType>

<description>Failed to create DB transaction.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*14005011((?s).)*</searchPattern>

<userType>MIPS_DATASTORE_ERROR</userType>

<baseType>FAIL</baseType>

<description>MIPS datastore error.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*15005000((?s).)*</searchPattern>
```

```
<userType>INTERNAL_APP_ERROR</userType>

<baseType>FAIL</baseType>

<description>Internal application error.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*15005001((?s).)*</searchPattern>

<userType>READ_PARAM_ERROR</userType>

<baseType>FAIL</baseType>

<description>Error in reading parameter.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*15005003((?s).)*</searchPattern>

<userType>TRANS_OBJ_NOT_FOUND</userType>

<baseType>FAIL</baseType>

<description>Transaction object was not found.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*15005004((?s).)*</searchPattern>

<userType>CANT_SET_DIS_FIELD</userType>

<baseType>FAIL</baseType>

<description>The field cannot be set, since the field is disabled.</
```

```
description>
</userDefinedExitType>
<userDefinedExitType>
<neDescriptor>
<softwareLoad>3-5-X</softwareLoad>
<technology>MMS</technology>
<neVendor>CMVT</neVendor>
</neDescriptor>
<searchPattern>((?s).)*15005005((?s).)*</searchPattern>
<userType>CANT_LOCATE_COS_ID</userType>
<baseType>FAIL</baseType>
<description>Could not locate COS type ID with a matching subscriber
package ID.</description>
</userDefinedExitType>
<userDefinedExitType>
<neDescriptor>
<softwareLoad>3-5-X</softwareLoad>
<technology>MMS</technology>
<neVendor>CMVT</neVendor>
</neDescriptor>
<searchPattern>((?s).)*15005006((?s).)*</searchPattern>
<userType>INCORRECT_PARAM_TYPE</userType>
<baseType>FAIL</baseType>
<description>Required parameter field is not the correct type.</
description>
</userDefinedExitType>
<userDefinedExitType>
<neDescriptor>
<softwareLoad>3-5-X</softwareLoad>
<technology>MMS</technology>
<neVendor>CMVT</neVendor>
</neDescriptor>
<searchPattern>((?s).)*15005007((?s).)*</searchPattern>
<userType>CREATE_DOC_FAILED</userType>
<baseType>FAIL</baseType>
<description>ComPAS failed to create required XML document object,
```

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possibly due to overload.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*20005001((?s).)*</searchPattern>

<userType>DEL_ENTRY_NOT_EXIST</userType>

<baseType>FAIL</baseType>

<description>Deleted entry did not exist on entity.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*11009000((?s).)*</searchPattern>

<userType>CANT_UPDATE_BW_LIST</userType>

<baseType>FAIL</baseType>

<description>Cannot update/remove B/W (black/white) list in create

command.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*11009001((?s).)*</searchPattern>

<userType>CANT_SET_MMS_EXIST</userType>

<baseType>FAIL</baseType>

<description>Cannot set value of [MultiMediaMessage Enabled]/

[MMSSendTo Mbx] because copy/divert is active and neither MMSAltFwToAddr nor
```

```
mail account exist.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*11009002((?s).)*</searchPattern>

<userType>BW_FILTER_NOT_EXIST</userType>

<baseType>FAIL</baseType>

<description>B/W filter (Address/Domain/PhoneNumber) does not exist

in MMS B/W lists.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*11009004((?s).)*</searchPattern>

<userType>BW_LIST_NOT_EXIST</userType>

<baseType>FAIL</baseType>

<description>B/W list does not exist in MMS B/W list.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*20009001((?s).)*</searchPattern>

<userType>BW_LIST_FILTER_EXIST</userType>

<baseType>FAIL</baseType>

<description>B/W list filter already exists.</description>

</userDefinedExitType>
```

```
<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*20009002((?s).)*</searchPattern>

<userType>ALL_BW_FILTERS_EXIST</userType>

<baseType>FAIL</baseType>

<description>All B/W filters already exist.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*11008000((?s).)*</searchPattern>

<userType>DIABLED_MSG_TYPE</userType>

<baseType>FAIL</baseType>

<description>Request contains disabled message type data.</
description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*11008002((?s).)*</searchPattern>

<userType>MIPS_PA_NOT_SUPPORT</userType>

<baseType>FAIL</baseType>

<description>Request contains message type data that the MIPS PA
does not support.</description>

</userDefinedExitType>

<userDefinedExitType>
```

```
<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*12008001((?s).)*</searchPattern>

<userType>NO_MIPS_COS_ID</userType>

<baseType>FAIL</baseType>

<description>Could not locate matched MIPS COS ID.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*12008002((?s).)*</searchPattern>

<userType>NO_NDS_DOMAIN</userType>

<baseType>FAIL</baseType>

<description>Could not locate NDS Domain.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*12008003((?s).)*</searchPattern>

<userType>NO_MIPS_DOMAIN</userType>

<baseType>FAIL</baseType>

<description>Could not locate matched MIPS domain in GSL data.</
description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>
```

```
<technology>MMS</technology>
<neVendor>CMVT</neVendor>
</neDescriptor>
<searchPattern>((?s).)*12008004((?s).)*</searchPattern>
<userType>EMAIL_NOT_VALID</userType>
<baseType>FAIL</baseType>
<description>New email address is not part of the mail account
domain and is not valid.</description>
</userDefinedExitType>
<userDefinedExitType>
<neDescriptor>
<softwareLoad>3-5-X</softwareLoad>
<technology>MMS</technology>
<neVendor>CMVT</neVendor>
</neDescriptor>
<searchPattern>((?s).)*24008001((?s).)*</searchPattern>
<userType>DEL_FOLDER_FAILED</userType>
<baseType>FAIL</baseType>
<description>Failed to perform the folder/s deletion handling
failure cause.</description>
</userDefinedExitType>
<userDefinedExitType>
<neDescriptor>
<softwareLoad>3-5-X</softwareLoad>
<technology>MMS</technology>
<neVendor>CMVT</neVendor>
</neDescriptor>
<searchPattern>((?s).)*24008002((?s).)*</searchPattern>
<userType>MIPS_DEL_FOLDER_FAIL</userType>
<baseType>FAIL</baseType>
<description>Failed to delete the folder from the MIPS.</
description>
</userDefinedExitType>
<userDefinedExitType>
<neDescriptor>
<softwareLoad>3-5-X</softwareLoad>
```

```
<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*11002000((?s).)*</searchPattern>

<userType>GCHID_FIELDS_MISSING</userType>

<baseType>FAIL</baseType>

<description>GCHID command is missing required field/s.</
description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*11002002((?s).)*</searchPattern>

<userType>NO_MAIL_ACCOUNT_ID</userType>

<baseType>FAIL</baseType>

<description>Could not locate ID for the MailAccount.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*11002003((?s).)*</searchPattern>

<userType>NO_MATCH_DB_VALUE</userType>

<baseType>FAIL</baseType>

<description>Value of the field does not match the valid values in
the DB.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>
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<neVendor>CMVT</neVendor>
</neDescriptor>
<searchPattern>((?s).)*11002004((?s).)*</searchPattern>
<userType>CANT_DEL_ENABLED_FLD</userType>
<baseType>FAIL</baseType>
<description>Field cannot be deleted since the field/s is/are
enabled.</description>
</userDefinedExitType>
<userDefinedExitType>
<neDescriptor>
<softwareLoad>3-5-X</softwareLoad>
<technology>MMS</technology>
<neVendor>CMVT</neVendor>
</neDescriptor>
<searchPattern>((?s).)*11002005((?s).)*</searchPattern>
<userType>HEXA_CONVERT_FAILED</userType>
<baseType>FAIL</baseType>
<description>Failed to convert the field with value into a
hexadecimal value.</description>
</userDefinedExitType>
<userDefinedExitType>
<neDescriptor>
<softwareLoad>3-5-X</softwareLoad>
<technology>MMS</technology>
<neVendor>CMVT</neVendor>
</neDescriptor>
<searchPattern>((?s).)*11002006((?s).)*</searchPattern>
<userType>CONTRA_PROV_KEY_VAL</userType>
<baseType>FAIL</baseType>
<description>The provisioning key type value, which is set to be the
provisioning key type, contradicts the provisioning key value.</description>
</userDefinedExitType>
<userDefinedExitType>
<neDescriptor>
<softwareLoad>3-5-X</softwareLoad>
<technology>MMS</technology>
```

```
<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*11002007((?s).)*</searchPattern>

<userType>EMTY_FLD_CANT_ENABLE</userType>

<baseType>FAIL</baseType>

<description>Field cannot be enabled if the field is empty.</

description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*11002008((?s).)*</searchPattern>

<userType>DIS_FLD_CANT_ENABLE</userType>

<baseType>FAIL</baseType>

<description>Field cannot be enabled if the field is disabled.</

description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*11002009((?s).)*</searchPattern>

<userType>ENABLE_FLD_CANT_DIS</userType>

<baseType>FAIL</baseType>

<description>Field cannot be disabled if the field is enabled.</

description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>
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```
<neVendor>CMVT</neVendor>
</neDescriptor>
<searchPattern>((?s).)*11002011((?s).)*</searchPattern>
<userType>MOD_MA_CANT_EQV_MIPS</userType>
<baseType>FAIL</baseType>
<description>MailAccount/HostId value of a modified MA cannot be
equal to the MIPS domain.</description>
</userDefinedExitType>
<userDefinedExitType>
<neDescriptor>
<softwareLoad>3-5-X</softwareLoad>
<technology>MMS</technology>
<neVendor>CMVT</neVendor>
</neDescriptor>
<searchPattern>((?s).)*11002012((?s).)*</searchPattern>
<userType>CANT_SET_OPR_MAIL_ID</userType>
<baseType>FAIL</baseType>
<description>Field cannot be set in an operator mail account ID.</
description>
</userDefinedExitType>
<userDefinedExitType>
<neDescriptor>
<softwareLoad>3-5-X</softwareLoad>
<technology>MMS</technology>
<neVendor>CMVT</neVendor>
</neDescriptor>
<searchPattern>((?s).)*11002013((?s).)*</searchPattern>
<userType>EMAILENABLE_DISABLED</userType>
<baseType>FAIL</baseType>
<description>MA cannot be created since the EmailEnabled field is
disabled.</description>
</userDefinedExitType>
<userDefinedExitType>
<neDescriptor>
<softwareLoad>3-5-X</softwareLoad>
<technology>MMS</technology>
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```
<neVendor>CMVT</neVendor>
</neDescriptor>
<searchPattern>((?s).)*11002014((?s).)*</searchPattern>
<userType>NO_FIELD_VALUE_MATCH</userType>
<baseType>FAIL</baseType>
<description>Field cannot be set to since it does not match the
value/s of the field/s.</description>
</userDefinedExitType>
<userDefinedExitType>
<neDescriptor>
<softwareLoad>3-5-X</softwareLoad>
<technology>MMS</technology>
<neVendor>CMVT</neVendor>
</neDescriptor>
<searchPattern>((?s).)*11002015((?s).)*</searchPattern>
<userType>NEW_MA_DONOT_MATCH</userType>
<baseType>FAIL</baseType>
<description>New MA addresses do not match the value of the field.</
description>
</userDefinedExitType>
<userDefinedExitType>
<neDescriptor>
<softwareLoad>3-5-X</softwareLoad>
<technology>MMS</technology>
<neVendor>CMVT</neVendor>
</neDescriptor>
<searchPattern>((?s).)*11002016((?s).)*</searchPattern>
<userType>FIELD_HAS_NO_VALUE</userType>
<baseType>FAIL</baseType>
<description>Field could not be set since the field has no value.</
description>
</userDefinedExitType>
<userDefinedExitType>
<neDescriptor>
<softwareLoad>3-5-X</softwareLoad>
<technology>MMS</technology>
```

```
<neVendor>CMVT</neVendor>
</neDescriptor>
<searchPattern>((?s).)*11002017((?s).)*</searchPattern>
<userType>NOT_VALID_MAIL_ID</userType>
<baseType>FAIL</baseType>
<description>Creation of new mail account with ID is not valid and
must be larger than 3.</description>
</userDefinedExitType>
<userDefinedExitType>
<neDescriptor>
<softwareLoad>3-5-X</softwareLoad>
<technology>MMS</technology>
<neVendor>CMVT</neVendor>
</neDescriptor>
<searchPattern>((?s).)*11002018((?s).)*</searchPattern>
<userType>MA_ID_IS_OPR_ACC</userType>
<baseType>FAIL</baseType>
<description>MA ID is an operator mail account and can be created/
deleted only by enabling/disabling itsrelated service.</description>
</userDefinedExitType>
<userDefinedExitType>
<neDescriptor>
<softwareLoad>3-5-X</softwareLoad>
<technology>MMS</technology>
<neVendor>CMVT</neVendor>
</neDescriptor>
<searchPattern>((?s).)*11002031((?s).)*</searchPattern>
<userType>UNIQUE_FIELD_EXIST</userType>
<baseType>FAIL</baseType>
<description>One of the unique fields already exists in the DB and
cannot be duplicated.</description>
</userDefinedExitType>
<userDefinedExitType>
<neDescriptor>
<softwareLoad>3-5-X</softwareLoad>
<technology>MMS</technology>
```

```
<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*12002005((?s).)*</searchPattern>

<userType>NO_MAIL_DOMAIN</userType>

<baseType>FAIL</baseType>

<description>Could not locate mail address domain for the MA type

[Email only/email/voice] MA in the configuration file.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*12002006((?s).)*</searchPattern>

<userType>NO_MIPS_DOMAIN</userType>

<baseType>FAIL</baseType>

<description>Enable flag which triggers Operator MA creation cannot

be triggered since there is no MIPSdomain in the GSL set.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*IOException((?s).)*</searchPattern>

<userType>CMVT_IO_EXCPTION</userType>

<baseType>RETRY_DIS</baseType>

<description>The NE command was denied due to IO exception.</

description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>
```

```
<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*ProvCartridgeException((?s).)*</

searchPattern>

<userType>CMVT_PROV_EXCPTION</userType>

<baseType>FAIL</baseType>

<description>The NE command was denied due to provisioning cartridge

exception.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*Generic Exception((?s).)*</searchPattern>

<userType>CMVT_EXCEPTION</userType>

<baseType>FAIL</baseType>

<description>The NE command was denied due to general exception.</

description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*11001009((?s).)*</searchPattern>

<userType>INVALID_CMD_TYPE</userType>

<baseType>FAIL</baseType>

<description>Illegal command type.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>
```

```
<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*11001011((?s).)*</searchPattern>

<userType>INVALID_SCHEMA_NAME</userType>

<baseType>FAIL</baseType>

<description>Illegal schema name.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*11001012((?s).)*</searchPattern>

<userType>INVALID_SERVICE_NAME</userType>

<baseType>FAIL</baseType>

<description>Illegal service name.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*11001017((?s).)*</searchPattern>

<userType>COS_PROVREQ_ERROR</userType>

<baseType>FAIL</baseType>

<description>The COS provisioning request contains fields not marked

as behavioral fields (personal fields).</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>
```

```
<searchPattern>((?s).)*11001018((?s).)*</searchPattern>
<userType>PROVREQ_FIELDS_ERROR</userType>
<baseType>FAIL</baseType>
<description>The provisioning request for a service contains fields
that belong to a different service.</description>
</userDefinedExitType>
<userDefinedExitType>
<neDescriptor>
<softwareLoad>3-5-X</softwareLoad>
<technology>MMS</technology>
<neVendor>CMVT</neVendor>
</neDescriptor>
<searchPattern>((?s).)*11001019((?s).)*</searchPattern>
<userType>ENTITY_NAME_NOTMATCH</userType>
<baseType>FAIL</baseType>
<description>The given provisioning entity node name located under
the Data element in the request does not match the&#13;
ProvisioningEntityName node value specified in the Header element.</
description>
</userDefinedExitType>
<userDefinedExitType>
<neDescriptor>
<softwareLoad>3-5-X</softwareLoad>
<technology>MMS</technology>
<neVendor>CMVT</neVendor>
</neDescriptor>
<searchPattern>((?s).)*11001020((?s).)*</searchPattern>
<userType>COMPAS_PROCS_FAILED</userType>
<baseType>FAIL</baseType>
<description>ComPAS customized Pre/Post-Procesor failed.</
description>
</userDefinedExitType>
<userDefinedExitType>
<neDescriptor>
<softwareLoad>3-5-X</softwareLoad>
<technology>MMS</technology>
```

```
<neVendor>CMVT</neVendor>
</neDescriptor>
<searchPattern>((?s).)*11001024((?s).)*</searchPattern>
<userType>MISSMATCH_HIA_FIELDS</userType>
<baseType>FAIL</baseType>
<description>The HIA fkey(s) and their values do not match any of
the ComPAS fields as mapped in the HiaFieldsValuesMapping.xml file.</
description>
</userDefinedExitType>
<userDefinedExitType>
<neDescriptor>
<softwareLoad>3-5-X</softwareLoad>
<technology>MMS</technology>
<neVendor>CMVT</neVendor>
</neDescriptor>
<searchPattern>((?s).)*11002050((?s).)*</searchPattern>
<userType>GSL_MIPS_CONFIG_ERR</userType>
<baseType>FAIL</baseType>
<description>GSL configuration in the DB is missing MIPS domain
configuration information.</description>
</userDefinedExitType>
<userDefinedExitType>
<neDescriptor>
<softwareLoad>3-5-X</softwareLoad>
<technology>MMS</technology>
<neVendor>CMVT</neVendor>
</neDescriptor>
<searchPattern>((?s).)*11005006((?s).)*</searchPattern>
<userType>READ_ONLY_FIELDS_ERR</userType>
<baseType>FAIL</baseType>
<description>The indicated field is marked in the PA contract as
read-only and cannot be used in a create or modify request.</description>
</userDefinedExitType>
<userDefinedExitType>
<neDescriptor>
<softwareLoad>3-5-X</softwareLoad>
```

```
<technology>MMS</technology>
<neVendor>CMVT</neVendor>
</neDescriptor>
<searchPattern>((?s).)*11005014((?s).)*</searchPattern>
<userType>PWD_VALUE_ERROR</userType>
<baseType>FAIL</baseType>
<description>A password field is set with a value that does not
comply with its password policy.</description>
</userDefinedExitType>
<userDefinedExitType>
<neDescriptor>
<softwareLoad>3-5-X</softwareLoad>
<technology>MMS</technology>
<neVendor>CMVT</neVendor>
</neDescriptor>
<searchPattern>((?s).)*11005015((?s).)*</searchPattern>
<userType>SRV_LEVEL_ERROR</userType>
<baseType>FAIL</baseType>
<description>The service level indicated cannot be deleted as it is
already defined in one of the COSs.</description>
</userDefinedExitType>
<userDefinedExitType>
<neDescriptor>
<softwareLoad>3-5-X</softwareLoad>
<technology>MMS</technology>
<neVendor>CMVT</neVendor>
</neDescriptor>
<searchPattern>((?s).)*11005016((?s).)*</searchPattern>
<userType>SRV_LEVEL_NOT_EXIST</userType>
<baseType>FAIL</baseType>
<description>The service level indicated does not exist.</
description>
</userDefinedExitType>
<userDefinedExitType>
<neDescriptor>
<softwareLoad>3-5-X</softwareLoad>
```

```
<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*11005017((?s).)*</searchPattern>

<userType>MISSMATCH_IDENTIFIER</userType>

<baseType>FAIL</baseType>

<description>The given identifier does not match the provisioning

entity.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*11005018((?s).)*</searchPattern>

<userType>HEADER_KEY_ERROR</userType>

<baseType>FAIL</baseType>

<description>In a create command, the key that appears in the Header

cannot be provided as a separate field in the Data with a different value.</

description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*11005019((?s).)*</searchPattern>

<userType>MANDATORY_MISSING</userType>

<baseType>FAIL</baseType>

<description>The indicated mandatory identifier is missing.</

description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>
```

```
<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*11005020((?s).)*</searchPattern>

<userType>IDENTI_NOT_SUPPORTED</userType>

<baseType>FAIL</baseType>

<description>The indicated identifier is not supported in the

current ComPAS configuration.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*11005021((?s).)*</searchPattern>

<userType>MORETHAN_ONE_IDENTIF</userType>

<baseType>FAIL</baseType>

<description>The subscriber entity contains more than one

identifier.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*11005022((?s).)*</searchPattern>

<userType>ACTION_ATTRIBUTE_ERR</userType>

<baseType>FAIL</baseType>

<description>The request includes the Action attribute without the

add,update, or remove values.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>
```

```
<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*11005023((?s).)*</searchPattern>

<userType>ELE_NAME_LEN_ERROR</userType>

<baseType>FAIL</baseType>

<description>The max limit of element list name exceeded.</
description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*11005024((?s).)*</searchPattern>

<userType>NOT_BEHAVIORAL_FIELD</userType>

<baseType>FAIL</baseType>

<description>Field is not supported or not configured as behavioral
field.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*11005025((?s).)*</searchPattern>

<userType>NOT_BELONGTO_SERVICE</userType>

<baseType>FAIL</baseType>

<description>The specified field does not belong to the specified
service.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>
```

```
<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*11005026((?s).)*</searchPattern>

<userType>ACC_BULLENTIN_ERROR</userType>

<baseType>FAIL</baseType>

<description>The field cannot be set if the subscriber account type

is bulletin.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*11005027((?s).)*</searchPattern>

<userType>RESOURCE_FIELD_ERROR</userType>

<baseType>FAIL</baseType>

<description>The specified field cannot be modified as the field is

configured as a resource field and is already associated with a subcriber.</

description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*11005028((?s).)*</searchPattern>

<userType>ENTRIES_REMOVE_ERROR</userType>

<baseType>FAIL</baseType>

<description>Collection entries cannot be completely removed from

the system level.</description>

</userDefinedExitType>

<userDefinedExitType>
```

```
<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*11005029((?s).)*</searchPattern>

<userType>DUPLICATE_FIELDS_ERR</userType>

<baseType>FAIL</baseType>

<description>Field with value appears twice in the request.</
description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*11005030((?s).)*</searchPattern>

<userType>DUPLICATE_IDENTIFIER</userType>

<baseType>FAIL</baseType>

<description>Cannot receive entry &lt;sub entry/collection name&gt;
with identifier more than once.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*11005031((?s).)*</searchPattern>

<userType>FIELD_VALUE_ERROR</userType>

<baseType>FAIL</baseType>

<description>The value of field contradicts the value of field.</
description>

</userDefinedExitType>

<userDefinedExitType>
```

```
<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*11005032((?s).)*</searchPattern>

<userType>PRIVILEGES_ERROR</userType>

<baseType>FAIL</baseType>

<description>Authorization failed due to insufficient privileges on

the provisioning entity, command, or domain.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*11005033((?s).)*</searchPattern>

<userType>AUTH_FAILED_ERROR</userType>

<baseType>FAIL</baseType>

<description>Authorization failed due to insufficient privileges on

the provisioning entity, command, or domain.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*11005034((?s).)*</searchPattern>

<userType>AUTHORIZATION_ERROR</userType>

<baseType>FAIL</baseType>

<description>Authorization failed to perform due to failure to get

authorization information.</description>

</userDefinedExitType>

<userDefinedExitType>
```

```
<neDescriptor>
<softwareLoad>3-5-X</softwareLoad>
<technology>MMS</technology>
<neVendor>CMVT</neVendor>
</neDescriptor>
<searchPattern>((?s).)*11005036((?s).)*</searchPattern>
<userType>FIELD_DEPENDENCE_ERR</userType>
<baseType>FAIL</baseType>
<description>The request contains a field that cannot be provided
without a second field.</description>
</userDefinedExitType>
<userDefinedExitType>
<neDescriptor>
<softwareLoad>3-5-X</softwareLoad>
<technology>MMS</technology>
<neVendor>CMVT</neVendor>
</neDescriptor>
<searchPattern>((?s).)*11005037((?s).)*</searchPattern>
<userType>MESUSPEN_ENDDATE_ERR</userType>
<baseType>FAIL</baseType>
<description>Field cannot be equals or greater than field
&lt;MeSuspendedEndDate&gt;.</description>
</userDefinedExitType>
<userDefinedExitType>
<neDescriptor>
<softwareLoad>3-5-X</softwareLoad>
<technology>MMS</technology>
<neVendor>CMVT</neVendor>
</neDescriptor>
<searchPattern>((?s).)*11005038((?s).)*</searchPattern>
<userType>MESUSP_STARTDATE_ERR</userType>
<baseType>FAIL</baseType>
<description>The value of the MeSuspendedStartDate field is
configured and based on a field that has no value.</description>
</userDefinedExitType>
<userDefinedExitType>
```

```
<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*11005040((?s).)*</searchPattern>

<userType>PROVIDED_ACCOUNT_ERR</userType>

<baseType>FAIL</baseType>

<description>The request contains a field that cannot be provided

for this subscriber account type.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*11020002((?s).)*</searchPattern>

<userType>COS_REMOVED_ERROR</userType>

<baseType>FAIL</baseType>

<description>The COS cannot be removed because at least one

subscriber is associated with it.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*11020003((?s).)*</searchPattern>

<userType>COS_MODIFIED_ERROR</userType>

<baseType>FAIL</baseType>

<description>The service level in the COS cannot be modified because

resource enable has a different value.</description>

</userDefinedExitType>

<userDefinedExitType>
```

```
<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*11051007((?s).)*</searchPattern>

<userType>ENTITY_NAME_ERROR</userType>

<baseType>FAIL</baseType>

<description>Illegal entity name.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*11051016((?s).)*</searchPattern>

<userType>SEND_COMMANDS_ERROR</userType>

<baseType>FAIL</baseType>

<description>Only ComPAS is authorized to send commands to the SPMAgent.</
description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*11051017((?s).)*</searchPattern>

<userType>BATCH_FILE_ERROR</userType>

<baseType>FAIL</baseType>

<description>Unable to find the batch file in domain.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>
```

```
<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*12001206((?s).)*</searchPattern>

<userType>ASYNCHRONOUS_CMD_ERR</userType>

<baseType>FAIL</baseType>

<description>The asynchronous command cannot be sent because

AsyncEnabled is disabled.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*12001209((?s).)*</searchPattern>

<userType>MAXIMUM_QUOTA_ERROR</userType>

<baseType>FAIL</baseType>

<description>Maximum quota exceeded limit for resource group

&lt;resourcegroup name&gt;.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*12001504((?s).)*</searchPattern>

<userType>PHONE_OUTOF_RANGE</userType>

<baseType>FAIL</baseType>

<description>The resource group was not provided in the request and

the automatic GSL allocation is according to a predefined numbering plan. The

given telephone number is out of the numbering plan ranges.&#13;

</description>

</userDefinedExitType>

<userDefinedExitType>
```

```
<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*12004000((?s).)*</searchPattern>

<userType>DOMAIN_REMOVE_ERROR</userType>

<baseType>FAIL</baseType>

<description>The domain cannot be removed because at least one

subscriber or COS is associated with it.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*12005103((?s).)*</searchPattern>

<userType>NOT_FOUND_COS_ID</userType>

<baseType>FAIL</baseType>

<description>Cannot find for the specified.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*12005104((?s).)*</searchPattern>

<userType>UNIQ_ID_GENERATE_ERR</userType>

<baseType>FAIL</baseType>

<description>ComPAS failed to generate an internally unique ID for

the newly created subscriber.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>
```

```
<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*12005105((?s).)*</searchPattern>

<userType>COMPAS_CONFIG_ERROR</userType>

<baseType>FAIL</baseType>

<description>ComPAS failed to process the request because of a

configuration error.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*12007000((?s).)*</searchPattern>

<userType>MAIL_SRV_PROFILE_ERR</userType>

<baseType>FAIL</baseType>

<description>The email server profile cannot be removed because at

least one subscriber mail account is associated with it.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*13005002((?s).)*</searchPattern>

<userType>SPS_SERVER_ERROR</userType>

<baseType>FAIL</baseType>

<description>The SPS server encountered an error.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>
```

```
<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*13005032((?s).)*</searchPattern>

<userType>HTTP_REQUEST_ERROR</userType>

<baseType>FAIL</baseType>

<description>Failed to send HTTP request to URL.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*13005035((?s).)*</searchPattern>

<userType>SPM_AGENT_ERROR</userType>

<baseType>FAIL</baseType>

<description>Commands cannot be sent with this SPM Agent.</
description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*13051001((?s).)*</searchPattern>

<userType>SPM_AGENT_UNAVAILABL</userType>

<baseType>FAIL</baseType>

<description>The SPM-Agent is unavailable and cannot process any
provisioning requests.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>
```

```
<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*14005012((?s).)*</searchPattern>

<userType>FILE_SERVER_ERROR</userType>

<baseType>FAIL</baseType>

<description>The operation cannot be completed on the specified file

server.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*14005013((?s).)*</searchPattern>

<userType>PATH_CANNOT_DELETE</userType>

<baseType>FAIL</baseType>

<description>The requested path cannot be deleted.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*14006000((?s).)*</searchPattern>

<userType>VOICE_FILE_DEL_ERROR</userType>

<baseType>FAIL</baseType>

<description>Unable to detect the userï¿½s voice file directory from

the file system.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>
```

```
</neDescriptor>

<searchPattern>((?s).)*14051008((?s).)*</searchPattern>

<userType>ROLLBACK_OPER_FAILED</userType>

<baseType>FAIL</baseType>

<description>RollBack operation failed.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*14051009((?s).)*</searchPattern>

<userType>DSU_DOMAIN_ADD_ERROR</userType>

<baseType>FAIL</baseType>

<description>Failed to create the domain on the DSU.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*14051010((?s).)*</searchPattern>

<userType>DSU_DOMAIN_DEL_ERROR</userType>

<baseType>FAIL</baseType>

<description>Failed to delete the domain from the DSU.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*14051011((?s).)*</searchPattern>

<userType>DSU_DOMAIN_RNM_ERROR</userType>
```

```
<baseType>FAIL</baseType>

<description>Failed to rename the domain on the DSU.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*14051012((?s).)*</searchPattern>

<userType>DSU_USER_ADD_ERROR</userType>

<baseType>FAIL</baseType>

<description>Failed to create the user on the DSU.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*14051013((?s).)*</searchPattern>

<userType>DSU_USER_DEL_ERROR</userType>

<baseType>FAIL</baseType>

<description>Failed to delete the user from the DSU.</description>

</userDefinedExitType>

<userDefinedExitType>

<neDescriptor>

<softwareLoad>3-5-X</softwareLoad>

<technology>MMS</technology>

<neVendor>CMVT</neVendor>

</neDescriptor>

<searchPattern>((?s).)*14051014((?s).)*</searchPattern>

<userType>DSU_USER_RNM_ERROR</userType>

<baseType>FAIL</baseType>

<description>Failed to rename the default group for the user on the
DSU.</description>
```

```
</userDefinedExitType>
<userDefinedExitType>
<neDescriptor>
<softwareLoad>3-5-X</softwareLoad>
<technology>MMS</technology>
<neVendor>CMVT</neVendor>
</neDescriptor>
<searchPattern>((?s).)*14051015((?s).)*</searchPattern>
<userType>DSU_USER_PWD_ERROR</userType>
<baseType>FAIL</baseType>
<description>Failed to change the password for the user on the
DSU.</description>
</userDefinedExitType>
<userDefinedExitType>
<neDescriptor>
<softwareLoad>3-5-X</softwareLoad>
<technology>MMS</technology>
<neVendor>CMVT</neVendor>
</neDescriptor>
<searchPattern>((?s).)*15001205((?s).)*</searchPattern>
<userType>MAX_NUM_REQU_ERROR</userType>
<baseType>FAIL</baseType>
<description>The maximum number of asynchronous requests in the
ASYNC_REQUESTS table is above the threshold.</description>
</userDefinedExitType>
<userDefinedExitType>
<neDescriptor>
<softwareLoad>3-5-X</softwareLoad>
<technology>MMS</technology>
<neVendor>CMVT</neVendor>
</neDescriptor>
<searchPattern>((?s).)*15001212((?s).)*</searchPattern>
<userType>SRLCREATE_CMD_ERROR</userType>
<baseType>FAIL</baseType>
<description>The domain specified in an SrlCreate command is missing
on the target system.</description>
```

```
</userDefinedExitType>

</serviceModel>
```

4

Service Definition

The Comverse MMS cartridge contains a set of CSDLs that map to one or more ASDL commands. You can also create additional CSDLs that map to existing and newly-created ASDLs. An upstream system can assemble any of these CSDL commands onto a work order for provisioning.

This chapter presents detailed information on the CSDL parameters that we provide in this cartridge. The following table lists and describes the type of parameter information that is included.

Table 15: ASDL parameter information

Item	Description
Parameter Name	Identifies the parameter that is configured for the stated service.
Description	Describes the parameter.
Range	Describes or lists the range of values that can be used to satisfy this parameter.
Default Value	Configures a default value for the parameter so that it is not mandatory for the upstream system to provide a value.

Table 15: ASDL parameter information

Item	Description
Type	Indicates one of the following parameter types: ◆ S—Scalar, specifies the parameter label transmitted on the ASDL command. Scalar parameters are conventional name-value pair parameters. ◆ C—Compound, specifies the base name of the compound parameter transmitted on the ASDL command. A compound parameter contains structures or arrays of information that are represented by a particular structure name or compound parameter name. Each compound parameter can contain a large number of elements. If you use compound parameters, you only require a single entry in the ASAP translation tables to call the compound parameter and all its associated parameter elements. ◆ I—Indexed, identifies a parameter that contains a sequential numerical index value to tell the SARM that it should execute the same operation (for example, an ASDL command) for all occurrences of that index. Consequently, if there are several options on a particular CSDL command (OPT1, OPT2, OPT3, etc.), you can specify the OPT parameter as an indexed parameter. When you specify the OPT parameter as an indexed parameter, the SARM generates several occurrences of that same ASDL command and each command has a different value for the option being transmitted to the NEP. For more information on parameter types, refer to the *ASAP Developer Reference*.
Class	Indicates one of the following parameter classifications: ◆ R—Required scalar parameter ◆ O—Optional scalar parameter ◆ C—Required compound parameter ◆ N—Optional compound parameter ◆ M—Mandatory indexed parameter ◆ I—Optional indexed parameter ◆ S—Parameter count

For a detailed description of the Required and Optional parameter classifications, refer to the *ASAP Administration Guide.*

CSDL commands

This cartridge provides the following CSDL Commands:

◆ C_CMVT-MMS_3-5-X_ADD-OR-MOD_SUBSCRIBER

◆ C_CMVT-MMS_3-5-X_ADD_SUBSCRIBER

◆ C_CMVT-MMS_3-5-X_DEL_SUBSCRIBER

◆ C_CMVT-MMS_3-5-X_MOD_SUBSCRIBER

◆ C_CMVT-MMS_3-5-X_QRY_SUBSCRIBER

C_CMVT-MMS_3-5-X_ADD-OR-MOD_SUBSCRIBER

Add or Modify the MMS Subscriber.

Table 16: C_CMVT-MMS_3-5-X_ADD-OR-MOD_SUBSCRIBER

Parameter Name	Description	Range	Default Value	Type	Class
CNSACCEPTSFLINK	Determine whether the subscriber accepts links to a shared folder by other subscribers.	The possible values are true/false or 1/0.		S	O
CNSRECVSFNOTIFICATION	Determines whether the subscriber receives notifications when actions are performed on shared folders.	String.		S	O
COMPOSESMSENABLED	Enables the sending of short messages to SMS.	The possible values are true/false or 1/0.		S	O
COUNTRYCODE	Specifies the Country Code.	3 char string.		S	R
DEFAULTFROMADDRESS	Defines the Default From address for the subscriber.	325 char string.		S	O
DEFAULTMMSMSGDELIVERYREP	Defines if the user wants to request a delivery report by default (without any special action from the user during compose).	The possible values are true/false or 1/0.		S	O

Table 16: C_CMVT-MMS_3-5-X_ADD-OR-MOD_SUBSCRIBER

Parameter Name	Description	Range	Default Value	Type	Class
DEFAULTREADREPLYREQUEST	Specifies if the user wants to request read-reply by default (without any special action from the user during compose).	The possible values are true/false or 1/0.		S	O
DEFAULTREPLYMEDIA	Determines the default media for replying to incoming messages.	The possible values are ◆ 1 = voice, ◆ 2 = fax, ◆ 3 = text, ◆ 4 = same, ◆ 5 = video.		S	O
EXTERNALSUBSCRIBERID	Subscriber Identification Number	13 char string.		S	O
FACSIMILETELEPHONENUMBER	Defines the Fax number	60 char string.		S	O
FAXDOMAIN	FaxDomain is used for Region.	Valid values 1 to 9 or 0 if unknown.		S	O
FOLDERREVIEWSORTFIELDDEFAULT	Defines the default sort field for the folder message-list page.	2 digit integer.		S	O
FOLDERREVIEWSORTORDERDEFAULT	Defines the sort order of messages.	1 char string.		S	O
FORWARDENABLED	Enables the forwarding for users who do not have a mailbox.	The possible values are true/false or 1/0.		S	O
GLOBALLANGUAGEID	Indicates the default language for all the applications.	10 char string.		S	O
HANDSETTYPE	Defines the terminal type.	30 char string.		S	O
HOSTREFERENCE	Host Reference.			S	O

Table 16: C_CMVT-MMS_3-5-X_ADD-OR-MOD_SUBSCRIBER

Parameter Name	Description	Range	Default Value	Type	Class
INTERNETPASSWORD	Defines the WEB login password.	6-128 char string.		S	O
INTERNETUSERNAME	Defines the WEB login user name.	50 char string.		S	O
ISPREPAID	Defines if the subscriber is a prepaid subscriber.	The possible values are true/false or 1/0.		S	O
LOCALMMAENABLED	Determines whether the subscriber has a private local MMA.	The possible values are true/false or 1/0.		S	O
MAILACCOUNT	Defines the mail account.			C	O
MAILBOXBLOCKED	Determines if the subscriber mailbox is blocked.	0 = Mailbox is not unblocked 1 = Mailbox is blocked		S	O
MAILSEARCHENABLED	Enables the message search feature of the MMBox.	The possible values are true/false or 1/0.		S	O
MAXNUMMMSSENDATTACH	Defines the maximum number of attachments per message.	2 digit integer.		S	O
MAXNUMMMSSENDRECIPIENTS	Determines the maximum number of recipients per message.	3 digit integer.		S	O
MMBOXACCOUNTENABLED	Determines if the subscriber MMBox account is enabled.	0 = MMBox account is disabled 1 = MMBox account is enabled		S	O
MMSADDRESS	Defines the full MMS address of the subscriber in RFC822 format.	325 char string.		S	R

Table 16: C_CMVT-MMS_3-5-X_ADD-OR-MOD_SUBSCRIBER

Parameter Name	Description	Range	Default Value	Type	Class
MMSBWLISTENABLED	Determines if the subscriber is allowed to use a BW list.	The possible values are true/false or 1/0.		S	O
MMSBWLISTFILTER	An address filter for a black/white list.			C	O
MMSBWLISTINUSE	The values of BW List type in use.	The possible values are None, Black and White.		S	O
MMSBWLISTTYPE	The types of list.	The possible values are ◆ 1 = black, ◆ 2 = white, ◆ 1|2 = both black and white.		S	O
MMSCOMPOSEENABLED	Defines if the subscriber is allowed to compose/forward messages using the MMBox.	The possible values are true/false or 1/0.		S	O
MMSCOPYTOSENTITEMS	Determines if the subscriber wants to send a copy of each sent message to their sent items folder.	The possible values are true/false or 1/0.		S	O
MMSENABLED	Determines if the MMS Service is enabled for this subscriber.	The possible values are true/false or 1/0.		S	O
MMSFWTOALTADDRESS	Defines the alternative address to which messages are forwarded in case the user is not provisioned in the Mbox service.	325 char string.		S	O
MMSMSGDELIVERYREPENABLED	Specifies if user allows sending delivery report.	The possible values are true/false or 1/0.		S	O

Table 16: C_CMVT-MMS_3-5-X_ADD-OR-MOD_SUBSCRIBER

Parameter Name	Description	Range	Default Value	Type	Class
MMSREPLYCHARGE TYPE	Indicates the type of reply charging permissions.	◆ 0 = Not_ Allowed, ◆ 1 = Text_Only, ◆ 2 = Allow_All.		S	O
MMSREPLYENABLE D	Defines which subscriber is allowed to reply to messages from the MMBox (Web interface).	The possible values are ◆ 0 = not allowed, ◆ 1 = allow all, ◆ 2 = allow senders only.		S	O
MMSSENDTOMBX	Determines how to handle the message that the subscriber received.	The possible values are ◆ 0 for handset only, ◆ 1 for MMBox only, and ◆ 2 for both handset and MMBox.		S	O
MNSMAILACCMAIL EMAILADDR	Defines the main Email Address.	String.		S	O
MULTIMEDIAMESS AGEENABLED	Creates a subscriber with a mailbox account on the MIPS.	The possible values are true/false or 1/0.		S	O
NE_ID_CMVT-MMS	The remote Network Element name.			S	R
OPERATORCODE	Specifies the operator's area code.	3 char string.		S	R
OPERINDICATION	Defines the operator.	String values.		S	O
PAGER	Pager is used for Tax.	Valid values 10 or 15.		S	O
PLMNNAME	The name of the subscriber cellular company.	50 char string.		S	O
PROVISIONINGENTI TYNAME	Provisioning Entity Name.			S	O
PROVISIONINGKEY	Subscriber Id.			S	R

Table 16: C_CMVT-MMS_3-5-X_ADD-OR-MOD_SUBSCRIBER

Parameter Name	Description	Range	Default Value	Type	Class
PROVISIONINGKEY TYPE	Provisioning Key Type.			S	O
RCVANONYMOUSE NABLED	Determines if the anonymous messages are allowed to be received	The possible values are true/false or 1/0.		S	O
RCVMAXMMSMSGS IZE	Defines the maximum size for recieving a message in kB			S	O
RCVMMSMSGCLAS SRESTRICTIONS	List of message classes the user is allowed/ forbidden to receive.	150 char string.		S	O
RCVMMSMSGTYPES RESTRICTIONS	List of message types the user is allowed/ forbidden to receive.	150 char string.		S	O
RECEIVEMMSENAB LED	Determines if the user is allowed to receive messages.	The possible values are true/false or 1/0.		S	O
RETURN_DATA_PRE FIX	Parameter to identify ASDLs for multiple nodes.			S	O
SECURITYLEVEL	Defines the user's security level. This specifies if additional username/password authentication is required for WAP.	5 char string.		S	O
SENDANONYMOUS ENABLED	Determines if the user is allowed to send anonymous messages.	The possible values are true/false or 1/0.		S	O
SENDMAXMMSMSG SIZE	Defines the maximum size for sending a message in KB.	10 digit integer.		S	O

Table 16: C_CMVT-MMS_3-5-X_ADD-OR-MOD_SUBSCRIBER

Parameter Name	Description	Range	Default Value	Type	Class
SENDMMSENABLE D	Determines if the user is allowed to send messages.	The possible values are true/false or 1/0.		S	O
SENDMMSMSGTYPE SRESTRICTIONS	List of message types the user is allowed/ forbidden to send.	150 char string.		S	O
SENDMMSTOEMAIL ENABLED	Determines if messages can be sent to email.	The possible values are true/false or 1/0.		S	O
SENDSHAREDFOLD ERNOTIF	Determines the type of activity performed on shared folders that sends an MMS or SMS notification	The possible values are ◆ A = Adding to a shared folder, ◆ M = Modifying a shared folder, ◆ R = Removing from a shared folder.		S	O
SENDTOMMA	Enables the subscriber to download the contents of an MMS message to the MMA.	The possible values are true/false or 1/0.		S	O
SENDTOOTHERREL AYENABLED	Determines if messages can be sent to another relay.	The possible values are true/false or 1/0.		S	O
SHAREDFOLDEREN ABLED	Determines whether the subscriber can convert his/her folders into shared folders.	The possible values are true/false or 1/0.		S	O
SUBSCRIBERNAME	Defines the subscribers full name.	100 char string.		S	O
SUBSCRIBERSERVIC EPACKAGEID	Determines the subscriber COS ID for all services.	5 digit integer.		S	O

Table 16: C_CMVT-MMS_3-5-X_ADD-OR-MOD_SUBSCRIBER

Parameter Name	Description	Range	Default Value	Type	Class
TELEPHONENUMBER	Defines the subscriber main telephone number (MSISDN).	16 char string.		S	O
TUIACCESSENABLED	TUI Access Enabled.	The possible values are true/false or 1/0.		S	O
USERDATA	Text to be reflected in CDRs.	20 char string.		S	O
VOICEMAILENABLED	Voice Mail Enabled.	The possible values are true/false or 1/0.		S	O

Mapping to ASDLs

The following table illustrates the CSDL to ASDL mapping for this service.

Table 17: CSDL to ASDL Mapping

CSDL	ASDL
C_CMVT-MMS_3-5-X_ADD-OR-MOD_SUBSCRIBER	A_CMVT-MMS_3-5-X_QRY_SUBSCRIBER-RB
	A_CMVT-MMS_3-5-X_ADD-OR-MOD_SUBSCRIBER

C_CMVT-MMS_3-5-X_ADD_SUBSCRIBER

Add a MMS Subscriber.

Table 18: C_CMVT-MMS_3-5-X_ADD_SUBSCRIBER

Parameter Name	Description	Range	Default Value	Type	Class
COUNTRYCODE	Specifies the Country Code.	3 char string.		S	R

Table 18: C_CMVT-MMS_3-5-X_ADD_SUBSCRIBER

Parameter Name	Description	Range	Default Value	Type	Class
DEFAULTMMSMSG DELIVERYREP	Defines if the user wants to request a delivery report by default (without any special action from the user during compose).	The possible values are true/false or 1/0.		S	O
DEFAULTREADREPL YREQUEST	Specifies if the user wants to request read-reply by default (without any special action from the user during compose).	The possible values are true/false or 1/0.		S	O
FACSIMILETELEPH ONENUMBER	Defines the Fax number.	60 char string.		S	O
FAXDOMAIN	FaxDomain is used for Region.	Valid values 1 to 9 or 0 if unknown.		S	O
GLOBALLANGUAG EID	Indicates the default language for all the applications.	10 char string.		S	O
HANDSETTYPE	Defines the terminal type.	30 char string.		S	R
HOSTREFERENCE	Host Reference.			S	O
INTERNETPASSWOR D	Defines the WEB login password.	6-128 char string.		S	O
INTERNETUSERNA ME	Defines the WEB login user name.	50 char string.		S	O
ISPREPAID	Defines if the subscriber is a prepaid subscriber.	The possible values are true/false or 1/0.		S	O
MAILBOXBLOCKED	Determines if the subscriber mailbox is blocked.	0 = Mailbox is not unblocked 1 = Mailbox is blocked		S	O

Table 18: C_CMVT-MMS_3-5-X_ADD_SUBSCRIBER

Parameter Name	Description	Range	Default Value	Type	Class
MMBOXACCOUNTENABLED	Determines if the subscriber MMBox account is enabled.	0 = MMBox account is disabled 1 = MMBox account is enabled		S	O
MMSADDRESS	Defines the full MMS address of the subscriber in RFC822 format.	325 char string.		S	R
MMSBWLISTENABLED	Determines if the subscriber is allowed to use a BW list.	The possible values are true/false or 1/0.		S	O
MMSBWLISTINUSE	BW List type in use where 0 is none, 1 is black and 2 is white.	The possible values are None, Black and White.		S	O
MMSCOPYTOSENTITEMS	Determines if the subscriber wants to send a copy of each sent message to their sent items folder.	The possible values are true/false or 1/0.		S	O
MMSENABLED	Determines if the MMS Service is enabled for this subscriber.	The possible values are true/false or 1/0.		S	O
MMSMSGDELIVERYREPENABLED	Specifies if user allows sending delivery report.	The possible values are true/false or 1/0.		S	O
NE_ID_CMVT-MMS	The remote network element name.			S	R
OPERATORCODE	Specifies the operators area code.	3 char string.		S	R
OPERINDICATION	Defines the operator.	String values.		S	O
PAGER	Pager is used for Tax.	Valid values 10 or 15.		S	O

Table 18: C_CMVT-MMS_3-5-X_ADD_SUBSCRIBER

Parameter Name	Description	Range	Default Value	Type	Class
PLMNNAME	The name of the subscriber cellular company.	50 char string.		S	O
PROVISIONINGENTITYNAME	Provisioning Entity Name			S	O
PROVISIONINGKEY	Subscriber ID.			S	R
PROVISIONINGKEYTYPE	Provisioning Key Type.			S	O
SUBSCRIBERNAME	Defines the subscribers full name.	100 char string.		S	O
SUBSCRIBERSERVICEPACKAGEID	Determines the subscriber COS ID for all services.	5 digit integer.		S	O
TELEPHONENUMBER	Defines the subscriber main telephone number (MSISDN).	16 char string.		S	O
TUIACCESSENABLED	TUI Access Enabled.	The possible values are true/false or 1/0.		S	O
USERDATA	Text to be reflected in CDR's.	20 char string.		S	O
VOICEMAILENABLED	Voice Mail Enabled.	The possible values are true/false or 1/0.		S	O

Mapping to ASDLs

The following table illustrates the CSDL to ASDL mapping for this service.

Table 19: CSDL to ASDL Mapping

CSDL	ASDL
C_CMVT-MMS_3-5-X_ADD_SUBSCRIBER	A_CMVT-MMS_3-5-X_ADD_SUBSCRIBER

C_CMVT-MMS_3-5-X_DEL_SUBSCRIBER

Delete a MMS Subscriber.

Table 20: C_CMVT-MMS_3-5-X_DEL_SUBSCRIBER

Parameter Name	Description	Range	Default Value	Type	Class
NE_ID_CMVT-MMS	The remote Network Element name.			S	R
PROVISIONINGENTITYNAME	Provisioning Entity Name.			S	O
PROVISIONINGKEY	Subscriber Id.			S	R
PROVISIONINGKEYTYPE	Provisioning Key Type.			S	O
RETURN_DATA_PREFIX	Parameter to identify ASDLs for multiple nodes.			S	O

Mapping to ASDLs

The following table illustrates the CSDL to ASDL mapping for this service.

Table 21: CSDL to ASDL Mapping

CSDL	ASDL
C_CMVT-MMS_3-5-X_DEL_SUBSCRIBER	A_CMVT-MMS_3-5-X_QRY_SUBSCRIBER-RB
	A_CMVT-MMS_3-5-X_DEL_SUBSCRIBER

C_CMVT-MMS_3-5-X_MOD_SUBSCRIBER

Modify the MMS Subscriber.

Table 22: C_CMVT-MMS_3-5-X_MOD_SUBSCRIBER

Parameter Name	Description	Range	Default Value	Type	Class
COUNTRYCODE	Specifies the Country Code.	3 char string.		S	R
DEFAULTMMSMSG DELIVERYREP	Defines if the user wants to request a delivery report by default (without any special action from the user during compose).	The possible values are true/false or 1/0.		S	O
DEFAULTREADREPL YREQUEST	Specifies if the user wants to request read-reply by default (without any special action from the user during compose).	The possible values are true/false or 1/0.		S	O
FAXDOMAIN	FaxDomain is used for Region.	Valid values 1 to 9 or 0 if unknown.		S	O
HANDSETTYPE	Defines the terminal type.	30 char string.		S	O
HOSTREFERENCE	Host Reference.			S	O
ISPREPAID	Defines if the subscriber is a prepaid subscriber.	The possible values are true/false or 1/0.		S	O
MAILBOXBLOCKED	Determines if the subscriber mailbox is blocked.	0 = Mailbox is not unblocked 1 = Mailbox is blocked		S	O
MMBOXACCOUNTE NABLED	Determines if the subscriber MMBox account is enabled.	0 = MMBox account is disabled 1 = MMBox account is enabled		S	O

Table 22: C_CMVT-MMS_3-5-X_MOD_SUBSCRIBER

Parameter Name	Description	Range	Default Value	Type	Class
MMSADDRESS	Defines the full MMS address of the subscriber in RFC822 format.	325 char string.		S	R
MMSBWLISTENABLED	Determines if the subscriber is allowed to use a BW list.	The possible values are true/false or 1/0.		S	O
MMSBWLISTFILTER	Filters.			C	O
MMSBWLISTINUSE	BW List type in use.	The possible values are None, Black and White.		S	O
MMSBWLISTTYPE	The types of list.	The possible values are ◆ 1 = black, ◆ 2 = white, 1|2 = both black and white.		S	O
MMSCOPYTOSENTITEMS	Determines if the subscriber wants to send a copy of each sent message to their sent items folder.	The possible values are true/false or 1/0.		S	O
MMSENABLED	Determines if the MMS Service is enabled for this subscriber.	The possible values are true/false or 1/0.		S	O
MMSMSGDELIVERYREPENABLED	Specifies if user allows sending delivery report.	The possible values are true/false or 1/0.		S	O
NE_ID_CMVT-MMS	The remote Network Element name.			S	R
OPERATORCODE	Specifies the operators area code.	3 char string.		S	R
OPERINDICATION	Defines the operator.	String values.		S	O
PAGER	Pager is used for Tax.	Valid values 10 or 15.		S	O

Table 22: C_CMVT-MMS_3-5-X_MOD_SUBSCRIBER

Parameter Name	Description	Range	Default Value	Type	Class
PLMNNAME	The name of the subscriber cellular company.	50 char string.		S	O
PROVISIONINGENTITYNAME	Provisioning Entity Name.			S	O
PROVISIONINGKEY	Subscriber Id.			S	R
PROVISIONINGKEYTYPE	Provisioning Key Type.			S	O
RETURN_DATA_PREFIX	Parameter to identify ASDLs for multiple nodes.			S	O
SUBSCRIBERSERVICEPACKAGEID	Determines the subscriber COS ID for all services.	5 digit integer.		S	O
TELEPHONENUMBER	Defines the subscriber main telephone number (MSISDN).	16 char string.		S	O
TUIACCESSENABLED	TUI Access Enabled.	The possible values are true/false or 1/0.		S	O
USERDATA	Text to be reflected in CDRs.	20 char string.		S	O
VOICEMAILENABLED	Voice Mail Enabled.	The possible values are true/false or 1/0.		S	O

Mapping to ASDLs

The following table illustrates the CSDL to ASDL mapping for this service.

Table 23: CSDL to ASDL Mapping

CSDL	ASDL
C_CMVT-MMS_3-5-X_MOD_SUBSCRIBER	A_CMVT-MMS_3-5-X_QRY_SUBSCRIBER-RB
	A_CMVT-MMS_3-5-X_MOD_SUBSCRIBER

C_CMVT-MMS_3-5-X_QRY_SUBSCRIBER

Query MMS Subscriber.

Table 24: C_CMVT-MMS_3-5-X_QRY_SUBSCRIBER

Parameter Name	Description	Range	Default Value	Type	Class
NE_ID_CMVT-MMS	The remote Network Element name.			S	R
PROVISIONINGENTI TYNAME	Provisioning Entity Name.			S	O
PROVISIONINGKEY	Subscriber Id.			S	R
PROVISIONINGKEY TYPE	Provisioning Key Type.			S	O
RETURN_DATA_PRE FIX	Parameter to identify ASDLs for multiple nodes.			S	O

Mapping to ASDLs

The following table illustrates the CSDL to ASDL mapping for this service.

Table 25: CSDL to ASDL Mapping

CSDL	ASDL
C_CMVT-MMS_3-5-X_QRY_SUBSCRIBER	A_CMVT-MMS_3-5-X_QRY_SUBSCRIBER

5

Configuring ASAP to Support Additional NE Instances

You can configure ASAP to support the T_CMVT-MMS_3-5-X_HOST - NEP configuration using the Service Activation Configuration Tool (SACT). Refer to the *ASAP Administration Guide* for more information.

Below is an example of the Activation.Configuration.XML file for the Comverse MMS cartridge.

```xml
<?xml version="1.0" encoding="UTF-8"?>
<activationConfig xmlns="http://www.metasolv.com/ServiceActivation/
2003/ActivationConfig" xmlns:cfg="http://www.mslv.com/studio/activa-
  tion/
model/config" xmlns:route="http://www.mslv.com/studio/activation/
model/routing" xmlns:sm="http://www.metasolv.com/
ServiceActivation/2003/ServiceModel" xmlns:xsi="http://www.w3.org/
2001/XMLSchema-instance">
<connectionPool name="MMS29PL">
<device name="cmvt_mms_3_5_X_http_dev01">
<environment>DEVELOPMENT</environment>
<lineType>GENERIC_MESSAGE_BASED_CONNECTION</lineType>
</device>
</connectionPool>
<element name="CMVT_MMS-3-5-X-HOST">
<vendor>CMVT</vendor>
<technology>MMS</technology>
<softwareLoad>3-5-X</softwareLoad>
<nepServerName>$NEP</nepServerName>
<primaryPool>MMS29PL</primaryPool>
<maximumConnections>32</maximumConnections>
<dropTimeout>2</dropTimeout>
<spawnThreshold>10</spawnThreshold>
<killThreshold>8</killThreshold>
<routingElement name="CMVT_MMS-3-5-X-HOST"/>
<communicationParameter>
<label>HOST_IPADDR</label>
<value>
<value>10.9.1.221</value>
</value>
<description>The host name or IP Address of the remote NE
</description>
<lineType>GENERIC_MESSAGE_BASED_CONNECTION</lineType>
</communicationParameter>
<communicationParameter>
<label>PORT</label>
```

```
<value>
<value>60043</value>
</value>
<description>Port number to connect on remote NE host
</description>
<lineType>GENERIC_MESSAGE_BASED_CONNECTION</lineType>
</communicationParameter>
<communicationParameter>
<label>OPEN_TIMEOUT</label>
<value>
<value>20</value>
</value>
<description>Connection timeout in seconds</description>
<lineType>GENERIC_MESSAGE_BASED_CONNECTION</lineType>
</communicationParameter>
<communicationParameter>
<label>READ_TIMEOUT</label>
<value>
<value>30000</value>
</value>
<description>Read timeout in seconds</description>
<lineType>GENERIC_MESSAGE_BASED_CONNECTION</lineType>
</communicationParameter>
<communicationParameter>
<label>RESPONSELOG</label>
<value>
<value>TRUE</value>
</value>
<description>Flag to turn On or Off Response logging
</description>
<lineType>GENERIC_MESSAGE_BASED_CONNECTION</lineType>
</communicationParameter>
<communicationParameter>
<label>SERVLET_URL</label>
<value>
<value>/compas/ProvisionServlet?</value>
</value>
<description>URL of the web server.</description>
<lineType>GENERIC_MESSAGE_BASED_CONNECTION</lineType>
</communicationParameter>
<communicationParameter>
<label>READ_ONLY_FIELDS</label>
<value>
<value>MAILSEARCHENABLED, COMPOSESMSENABLED,
MAILACCOUNT.SERVERTYPE, MAILACCOUNT.OPERATOREMS,
MNSMAILACCMAILEMAILADDR, CNSRECVSFNOTIFICATION,
CNSACCEPTSFLINK, VOICEMAILENABLED, TUIACCESSENABLED
</value>
</value>
<description>The Read only parameters</description>
<lineType>GENERIC_MESSAGE_BASED_CONNECTION</lineType>
</communicationParameter>
</element>
</activationConfig>
```

Extracting source files

Before you can access an XML file to modify it, you must extract it from the .sar file. Use the following procedure to extract source files from the sar file.

To extract source files

1. If necessary, create a repository directory, copy the .sar file to the new directory and un-jar the sar file.

2. After you un-jar the sar file, you can access the XML files.

Loading a new XML file

When you finish modifying an XML, you must create a new sar file, then restart the cartridge using the new file.

Follow the instructions in for directions on how to load a new XML file.

Implementing Round Robin Connection to NE

When multiple NEs are configured, if the communication to the first NE cannot be established, ASAP tries to connect to the remaining NE in the pool in a round robin fashion.

To implement round robin connection to NE, you need to configure the communication parameter DISABLE_PORT_ON_LOGIN with value set to 1, for *n* number of devices to be defined. This parameter triggers the NEP to put the device in a disabled state when the connection to the NE fails.

If there are *n* number of devices in primary pool with DISABLE_PORT_ON_LOGIN set to 1, NEP picks the login credentials (IP address and Port) of Device 1 (first device) and tries to establish a connection to the NE. If the connection fails, the NEP disables Device 1 and picks up Device 2 (second device) login credentials and tries to establish a connection. Similarly, this goes on until Device *n* if the connection is not successfully established. If the connection fails for Device *n*, then the NEP tries to establish a connection again from Device 1.

When all the devices defined in primary pool are disabled, ASAP NEP tries to pick the devices defined in SEC_POOL (tbl_nep table) if provided.

By default, the SEC_POOL is defined in tbl_nep. To use the pool of devices defined in the secondary pool, you must define the devices for this resource pool in the tbl_resource_pool table. If you do not want to use the pool of devices defined in the secondary pool, SEC_POOL must be defined as null in the tbl_nep.

The devices disabled using the communication parameter DISABLE_PORT_ON_LOGIN, can be enabled by configuring the PORT_ENABLE_TIMER parameter in `ASAP.cfg` file. The value set in the PORT_ENABLE_TIMER parameter is applicable to all the devices.

Note: Configuration of multiple devices with same communication parameters in Studio Activation Plug-in is supported only from version 3.0.1 b158 onwards.

6

APPENDIX

Compound parameter details

The compound parameter MMSBWLISTFILTER and MAILACCOUNT will contain array of one or more features. Each array element will have a parameter named TYPE along with other parameters required for that feature. The following section will describe the supported features and the parameters used by those features.

MOD_SUBSCRIBER

Table 26: MOD_SUBSCRIBER Compound Parameters

Parameter Label	Type	Description
MMSBWLISTFILTER[n]. TYPE	Optional	FilterType. The format of the compound parameter is MMSBWLISTFILTER[n].TYPE
MMSBWLISTFILTER[n].ACTION[n]	Optional	Filter Action. The format of the compound parameter is MMSBWLISTFILTER[n].ACTION[n]
MMSBWLISTFILTER[n].VALUE[n]	Optional	Filter Value. The format of the compound parameter is MMSBWLISTFILTER[n].VALUE[n]

ADD-OR-MOD_SUBSCRIBER

Table 27: MOD_SUBSCRIBER Compound Parameters

Parameter Label	Type	Description
MAILACCOUNT.ID	Optional	Determines the mail account ID. The value should be given as MAILACCOUNT.ID
MAILACCOUNT.PASSWORD	Optional	Defines the mail account password. The value should be given as MAILACCOUNT.PASSWORD
MAILACCOUNT.DESCRIPTION	Optional	Describes the mail account. The value should be given as MAILACCOUNT.DESCRIPTION
MAILACCOUNT.SERVERTYPE	Optional	Describes Mail Account ServerType. The value should be given as MAILACCOUNT.SERVERTYPE
MAILACCOUNT.OPERATOREMS	Optional	Determines the email address(es) of the mail account in the MIPS. The value should be given as MAILACCOUNT.OPERATOREMS
MAILACCOUNT.USERNAME	Optional	Defines the mail account username. The value should be given as MAILACCOUNT.USERNAME
MAILACCOUNT[n]. EMAILADDRESS	Optional	Defines the mail address of the email account. The value should be given as MAILACCOUNT[n].EMAILADDRESS
MMSBWLISTFILTER[n].TYPE	Optional	The Type of address Filter.The format of the compound parameter is MMSBWLISTFILTER[n].TYPE
MMSBWLISTFILTER[n].ACTION[n]	Optional	Defines the Filter Action.The format of the compound parameter is MMSBWLISTFILTER[n].ACTION[n]
MMSBWLISTFILTER[n].VALUE[n]	Optional	The address filter for a black/white list. The format of the compound parameter is MMSBWLISTFILTER[n].VALUE[n]

MOD_SUBSCRIBER-RB

Table 28: MOD_SUBSCRIBER Compound Parameters

Parameter Label	Type	Description
OLD_MMSBWLISTFILTER[n].TYPE	Optional	FilterType. The format of the compound parameter is OLD_MMSBWLISTFILTER[n].TYPE
OLD_MMSBWLISTFILTER[n].ACTION[n]	Optional	Filter Action. The format of the compound parameter is OLD_MMSBWLISTFILTER[n].ACTION[n]
OLD_MMSBWLISTFILTER[n].VALUE[n]	Optional	Filter Value. The format of the compound parameter is OLD_MMSBWLISTFILTER[n].VALUE[n]

ADD-OR-MOD_SUBSCRIBER-RB

Table 29: MOD_SUBSCRIBER Compound Parameters

Parameter Label	Type	Description
OLD_MAILACCOUNT. ID	Optional	Determines the mail account ID. The value should be given as OLD_MAILACCOUNT.ID
OLD_MAILACCOUNT.PASSWORD	Optional	Defines the mail account password. The value should be given as OLD_MAILACCOUNT.PASSWORD
OLD_MAILACCOUNT.DESCRIPTION	Optional	Describes the mail account. The value should be given as OLD_MAILACCOUNT.DESCRIPTION
OLD_MAILACCOUNT.SERVERTYPE	Optional	Describes Mail Account ServerType. The value should be given as OLD_MAILACCOUNT.SERVERTYPE

Table 29: MOD_SUBSCRIBER Compound Parameters

Parameter Label	Type	Description
OLD_MAILACCOUNT.OPERATOR EMS	Optional	Determines the email address(es) of the mail account in the MIPS. The value should be given as OLD_MAILACCOUNT.OPERATOREMS
OLD_MAILACCOUNT.USERNAME	Optional	Defines the mail account username. The value should be given as OLD_MAILACCOUNT.USERNAME
OLD_MAILACCOUNT[n].EMAILA DDRESS	Optional	Defines the mail address of the email account. The value should be given as OLD_MAILACCOUNT[n].EMAILADD RESS
OLD_MMSBWLISTFILTER[n].TYP E	Optional	The Type of address Filter. The format of the compound parameter is OLD_MMSBWLISTFILTER[n].TYPE
OLD_MMSBWLISTFILTER[n].ACTI ON[n]	Optional	Defines the Filter Action.The format of the compound parameter is OLD_MMSBWLISTFILTER[n].ACTION [n]
OLD_MMSBWLISTFILTER[n].VAL UE[n]	Optional	The address filter for a black/white list. The format of the compound parameter is OLD_MMSBWLISTFILTER[n].VALUE[n]