Oracle® Communications ASAP

Ericsson_MMS_20_MultiMediaMsg Cartridge Guide

First Edition

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Oracle Communications Ericsson_MMS_20_MultiMediaMsg Cartridge Guide, First Edition

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1

Cartridge Overview

This guide provides a detailed description of the Ericsson_MMS_20_MultiMediaMsg 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 Oracle Communications ASAP (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 ASAP documentation.

The Ericsson_MMS_20_MultiMediaMsg cartridge provides the ASAP service configuration and network element (NE) interface to activate subscriber services on TORONTO_MMS NEs.

Hardware and Software Requirements

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

- NE Interface
- ASAP Version

NE Interface

The following database tables in Service Activation Request Manager (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 7.2.0.

For more information on the operating environment of this ASAP version, refer to the ASAP version 7.2.0 Release Notes.

Connecting to the NE

The cartridge uses Corba protocol.

Services, Features, and Options

This cartridge supports the following services:

Table 1–1 Supported Services

Service	Description
C_ER-MMS_2-0_QRY_BLK-COMM	List subscribers in Community
C_ER-MMS_2-0_ADD_BLK-SUB	Add Bulk Subscribers
C_ER-MMS_2-0_ADD_COMM	Add Community
C_ER-MMS_2-0_DEL_COMM	Delete Community
C_ER-MMS_2-0_QRY_COMM	Query Community
C_ER-MMS_2-0_ADD_SUB	Add Subscriber
C_ER-MMS_2-0_DEL_SUB	Delete Subscriber
C_ER-MMS_2-0_MOD_SUB	Modify Subscriber
C_ER-MMS_2-0_QRY_SUB	Query Subscriber
C_ER-MMS_2-0_ADD_SUB-BY-TEMPLATE	Add Subscriber By Template
C_ER-MMS_2-0_ADD_SVC	Add Service
C_ER-MMS_2-0_DEL_SVC	Delete Service
C_ER-MMS_2-0_MOD_SVC	Mod Service
C_ER-MMS_2-0_QRY_SVC	Retrieve a service data
C_ER-MMS_2-0_QRY_SVCS	Retrieve all services
C_ER-MMS_2-0_ADD_USER	Add User
C_ER-MMS_2-0_DEL_USER	Delete User
C_ER-MMS_2-0_MOD_USER	Modify User
C_ER-MMS_2-0_QRY_USER	Query User
C_ER-MMS_2-0_ADD_USER-ADM	Add Admin User
C_ER-MMS_2-0_ADD_USER-CUS	Add Customer Care User
C_ER-MMS_2-0_ADD_USER-LAW	Add Law Enforcement User
C_ER-MMS_2-0_QRY_USERS	List all users
C_ER-MMS_2-0_QRY_USERS-CR	Query Current Users

Communication Parameters

The following is the list of parameters for the sample NE configuration XML used by Service Activation Configuration Tool (SACT).

Table 1–2 Communication Parameters

Parameter Label	Parameter Value	Description
ORBINITIALHOST	10.9.3.105	ORBInitialHost property
ORBINITIALPORT	22001	ORBInitialPort property
SOS_USER	Ovidiu	User name for login
SOS_PASSWORD	psswd1	Password for login
ERICY_MMS_LOOPBACK	1	Ericsson MMS loopback mode
IOR_INSTANCE	/config/Ericsson_ MMS_access.ior	Interoperable Object Reference. This file is relative to ASAP_BASE directory.

2

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 2–1 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.
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's Guide*.

Table 2–1 (Cont.) ASDL Parameter Information

Item	Description
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 System Administrator's Guide.*

ASDL Commands

This cartridge provides the following ASDL commands:

- A_ER-MMS_2-0_ADD_BLK-SUB
- A_ER-MMS_2-0_ADD_COMM
- A_ER-MMS_2-0_ADD_SUB
- A_ER-MMS_2-0_ADD_SUB-BY-TEMPLATE
- A_ER-MMS_2-0_ADD_SVC
- A_ER-MMS_2-0_ADD_USER
- A_ER-MMS_2-0_ADD_USER-ADM
- A_ER-MMS_2-0_ADD_USER-CUS
- A_ER-MMS_2-0_ADD_USER-LAW
- A_ER-MMS_2-0_DEL_COMM
- A_ER-MMS_2-0_DEL_SUB
- A_ER-MMS_2-0_DEL_SVC
- A_ER-MMS_2-0_DEL_USER
- A_ER-MMS_2-0_MOD_SUB
- A_ER-MMS_2-0_MOD_SVC
- A_ER-MMS_2-0_MOD_USER
- A_ER-MMS_2-0_QRY_BLK-COMM
- A_ER-MMS_2-0_QRY_COMM
- A_ER-MMS_2-0_QRY_SUB
- A_ER-MMS_2-0_QRY_SVC
- A_ER-MMS_2-0_QRY_SVCS
- A_ER-MMS_2-0_QRY_USER
- A_ER-MMS_2-0_QRY_USERS

- A_ER-MMS_2-0_QRY_USERS-CR

A_ER-MMS_2-0_ADD_BLK-SUB

Add bulk subscribers. It is implemented by the Java method **com.mslv.cartridge.oss.ERICS_MMS_20.BulkProv.bulkAddSub.**

Table 2–2 A_ER-MMS_2-0_ADD_BLK-SUB

Parameter Name	Description	Range	Default Value	Type	Class
MCLI	Host NE identifier.	N/A	N/A	S	R
SUBTEMPLATENUM	The subscriber template number.	N/A	N/A	S	R
SVCTEMPLATENUM	The service template number.	N/A	N/A	S	R
FIRSTMSISDN	The first subscriber number.	N/A	N/A	S	R
LASTMSISDN	The final subscriber number.	N/A	N/A	S	R

MML commands

MML Syntax :

```
Adds a block of subscribers to the database. The first and final subscriber
numbers, as well as
the subscriber and service template numbers, are entered into the database.

The MMS API called is bulkAddSub()
```

Output Parameters

NA

A_ER-MMS_2-0_ADD_COMM

Add community. It is implemented by the Java method **com.mslv.cartridge.oss.ERICS_MMS_20.CommunityProv.addCommunity.**

Table 2–3 A_ER-MMS_2-0_ADD_COMM

Parameter Name	Description	Range	Default Value	Type	Class
MCLI	Host NE identifier.	N/A	N/A	S	R
COMMUNITYNAME	The name of the community.	N/A	N/A	S	R

MML commands

MML Syntax :

```
Adds a community to the database.

The MMS API called is addCommunity()
```

Output Parameters

NA

A_ER-MMS_2-0_ADD_SUB

Add Subscriber. It is implemented by the Java method **com.mslv.cartridge.oss.ERICS_MMS_20.SubscriberProv.addSubscriber.**

Table 2–4 A_ER-MMS_2-0_ADD_SUB

Parameter Name	Description	Range	Default Value	Type	Class
MCLI	Mobile Station Integrated Services Digital Network Number. Uniquely identifies the mobile subscriber.	N/A	N/A	S	R
MSISDN	Mobile Station Integrated Services Digital Network Number. Uniquely identifies the mobile subscriber.	N/A	N/A	S	R
COMMUNITY	Name of the community.	N/A	N/A	S	R
MMSSVCNAME	Name of the service.	N/A	N/A	S	R
SVCENABLED	Identifies the service that is being enabled.	N/A	N/A	S	R
DELIVERYMETHOD	Delivery method.	N/A	N/A	S	R
CPYINGEMAIL	Required if CPYALLTOEMAIL or CPYMOTOEMAIL is set to true	N/A	N/A	S	O
ALTERNATEMSISDN	Required if FWDALLTOMSISDN or CPYALLTOMSISDN is set to true	N/A	N/A	S	O
FWDINGEMAIL	Required if FWDALLTOEMAIL is set to true	N/A	N/A	S	O
FWDALLTOEMAIL	Forward all to email	N/A	N/A	S	R
FWDALLTOMSISDN	forward all to MSISDN	N/A	N/A	S	R
CPYALLTOMSISDN	Copy all to MSISDN	N/A	N/A	S	R
CPYALLTOEMAIL	Copy all to email	N/A	N/A	S	R
CPYMOTOEMAIL	Copy MO to email	N/A	N/A	S	R
LAWFULINTERCEPT	Lawful intercept	N/A	N/A	S	R
PROMOTIONPLAN	Promotion plan	N/A	N/A	S	R
DISCOUNTPLAN	Discount plan	N/A	N/A	S	R
MARKETPLAN	Market plan	N/A	N/A	S	R
RATEVITALS	Rate vitals	N/A	N/A	S	R
CUSTOM1	Custom 1	N/A	N/A	S	O
CUSTOM2	Custom 2	N/A	N/A	S	O
TERMINALMANUF	Terminal Manuf	N/A	N/A	S	O
TERMINALMODEL	Terminal model	N/A	N/A	S	O
LANGUAGEPREF	Language Preference	N/A	N/A	S	O
CURRENCYPREF	Currency Preference	N/A	N/A	S	O
ALLOWMO	Allow MO	N/A	N/A	S	R

Table 2–4 (Cont.) A_ER-MMS_2-0_ADD_SUB

Parameter Name	Description	Range	Default Value	Type	Class
ALLOWMT	Allow MT	N/A	N/A	S	R
PREPAIDACCOUNTROUTE	Prepaid account route	N/A	N/A	S	R
USERPASSWORD	User password	N/A	N/A	S	R

MML commands

MML Syntax :

```
Adds a subscriber to the database. It uniquely identifies the subscriber using the
Mobile
Station Integrated Services Digital Network Number (MSISDN) and attributes such as
community name and service.

The MMS API called is addSub()
```

Output Parameters

NA

A_ER-MMS_2-0_ADD_SUB-BY-TEMPLATE

Add Subscriber By Template. It is implemented by the Java method **com.mslv.cartridge.oss.ERICS_MMS_20.SubscriberProv.addSubByTemplate.**

Table 2–5 A_ER-MMS_2-0_ADD_SUB-BY-TEMPLATE

Parameter Name	Description	Range	Default Value	Type	Class
MCLI	Mobile Station Integrated Services Digital Network Number. Uniquely identifies the mobile subscriber.	N/A	N/A	S	R
MSISDN	Mobile Station Integrated Services Digital Network Number. Uniquely identifies the mobile subscriber.	N/A	N/A	S	R
SUB_TEMPLATE_NUM	Subscriber template number.	N/A	N/A	S	R
MMS_SVC_TEMPLATE_NUM	MMS Service Template Number	N/A	N/A	S	R

MML commands

MML Syntax :

```
This method adds subscriber by template.

The MMS API called is addSubByTemplate()
```

Output Parameters

NA

A_ER-MMS_2-0_ADD_SVC

Add Service. It is implemented by the Java method **com.mslv.cartridge.oss.ERICS_MMS_20.ServiceProv.addService.**

Table 2–6 A_ER-MMS_2-0_ADD_SVC

Parameter Name	Description	Range	Default Value	Type	Class
MCLI	Host NE identifier.	N/A	N/A	S	R
SERVICENAME	Name of the service.	N/A	N/A	S	R
MMSCHARGETYPE	Type of charge.	N/A	N/A	S	R
PREPAIDCLASSOFSVC	Prepaid class of service	N/A	N/A	S	R
ALLOWSPECFWDINGEMAIL	Allow specific forwarding email	N/A	N/A	S	R
ALLOWSPECCPYINGEMAIL	Allow specific copying email	N/A	N/A	S	R
ALLOWCPYALLTOMSISDN	Allow copy all to MSISDN	N/A	N/A	S	R
ALLOWFWDALLTOMSISDN	Allow forward all to MSISDN	N/A	N/A	S	R
ALLOWCPYALLTOEMAIL	Allow copy all to email	N/A	N/A	S	R
FWDINGDOMAIN	forwarding domain. Required if ALLOWSPECFWDINGEMAIL is set to false	N/A	N/A	S	O
CPYINGDOMAIN	copying domain.Required if ALLOWSPECCPYINGEMAIL is set to false	N/A	N/A	S	O
LAWFULINTERCEPTDOMAIN	Lawful intercept domain.Required if LAWFULINTERCEPTDEST is set to domain	N/A	N/A	S	O
LAWFULINTERCEPTDEST	Lawful intercept destination.	N/A	N/A	S	O
DESCRIPTION	Description.	N/A	N/A	S	R

MML commands

MML Syntax :

```
Adds an MMS service to the database and populates the database with service
information,
such as charging method.

The MMS API called is addMMSSvc()
```

Output Parameters

NA

A_ER-MMS_2-0_ADD_USER

Add User. It is implemented by the Java method **com.mslv.cartridge.oss.ERICS_MMS_20.UserProv.addUser.**

Table 2–7 A_ER-MMS_2-0_ADD_USER

Parameter Name	Description	Range	Default Value	Type	Class
MCLI	Host NE identifier.	N/A	N/A	S	R
USERID	The name of the user.	N/A	N/A	S	R
USERPASSWORD	The password assigned to the user.	N/A	N/A	S	R
PERMISSIONS	The permissions assigned to the user.	N/A	N/A	S	R

MML commands

MML Syntax :

```
Adds a system user to the database and populates the database with user
information, such as
password and permissions.

The MMS API called is addUser()
```

Output Parameters

NA

A_ER-MMS_2-0_ADD_USER-ADM

Add AdminUser. It is implemented by the Java method **com.mslv.cartridge.oss.ERICS_MMS_20.UserProv.addUserAdmin.**

Table 2–8 A_ER-MMS_2-0_ADD_USER-ADM

Parameter Name	Description	Range	Default Value	Type	Class
MCLI	Host NE identifier.	N/A	N/A	S	R
USERID	The name of the user.	N/A	N/A	S	R
USERPASSWORD	The password assigned to the user.	N/A	N/A	S	R
PERMISSIONS	The permissions assigned to the user.	N/A	N/A	S	R

MML commands

MML Syntax :

```
Adds a system user to the database and automatically sets the required property
permissions to
PERMISSIONS_ADMIN.

The MMS API called is addUserAdmin()
```

Output Parameters

NA

A_ER-MMS_2-0_ADD_USER-CUS

Add Cust Care User. It is implemented by the Java method **com.mslv.cartridge.oss.ERICS_MMS_20.UserProv.addUserCustCare.**

Table 2–9 A_ER-MMS_2-0_ADD_USER-CUS

Parameter Name	Description	Range	Default Value	Type	Class
MCLI	Host NE identifier.	N/A	N/A	S	R
USERID	The name of the user.	N/A	N/A	S	R
USERPASSWORD	The password assigned to the user.	N/A	N/A	S	R
PERMISSIONS	The permissions assigned to the user.	N/A	N/A	S	R

MML commands

MML Syntax :

```
Adds a system user to the database and automatically sets the required property
permissions to
PERMISSIONS_CUST_CARE.

The MMS API called is addUserCustCare()
```

Output Parameters

NA

A_ER-MMS_2-0_ADD_USER-LAW

Add Law Enforcement User. It is implemented by the Java method **com.mslv.cartridge.oss.ERICS_MMS_20.UserProv.addUserLaw.**

Table 2–10 A_ER-MMS_2-0_ADD_USER-LAW

Parameter Name	Description	Range	Default Value	Type	Class
MCLI	Host NE identifier.	N/A	N/A	S	R
USERID	The name of the user.	N/A	N/A	S	R
USERPASSWORD	The password assigned to the user.	N/A	N/A	S	R
PERMISSIONS	The permissions assigned to the user.	N/A	N/A	S	R

MML commands

MML Syntax :

```
Adds a system user to the database and automatically sets the required property
permissions to
PERMISSIONS_LAWENFORCEMENT.
```

```
The MMS API called is addUserLawEnforcement()
```

Output Parameters

NA

A_ER-MMS_2-0_DEL_COMM

Delete community. It is implemented by the Java method **com.mslv.cartridge.oss.ERICS_MMS_20.CommunityProv.deleteCommunity.**

Table 2–11 A_ER-MMS_2-0_DEL_COMM

Parameter Name	Description	Range	Default Value	Type	Class
MCLI	Host NE identifier.	N/A	N/A	S	R
COMMUNITYNAME	The name of the community.	N/A	N/A	S	R

MML commands

MML Syntax :

```
Removes a community from the database.

The MMS API called is deleteCommunity()
```

Output Parameters

NA

A_ER-MMS_2-0_DEL_SUB

Delete subscriber. It is implemented by the Java method **com.mslv.cartridge.oss.ERICS_MMS_20.SubscriberProv.deleteSubscriber.**

Table 2–12 A_ER-MMS_2-0_DEL_SUB

Parameter Name	Description	Range	Default Value	Type	Class
MCLI	Host NE identifier.	N/A	N/A	S	R
MSISDN	Mobile Station Integrated Services Digital Network Number. Uniquely identifies the mobile subscriber.	N/A	N/A	S	R

MML commands

MML Syntax :

```
Uniquely identifies the subscriber using the MSISDN and deletes the subscriber
from the
database.

The MMS API called is deleteSub()
```

Output Parameters

NA

A_ER-MMS_2-0_DEL_SVC

Delete service. It is implemented by the Java method **com.mslv.cartridge.oss.ERICS_MMS_20.ServiceProv.deleteService.**

Table 2–13 A_ER-MMS_2-0_DEL_SVC

Parameter Name	Description	Range	Default Value	Type	Class
MCLI	Host NE identifier.	N/A	N/A	S	R
SERVICENAME	The name of service.	N/A	N/A	S	R

MML commands

MML Syntax :

```
Removes an MMS service from the database, based on the service name.

The MMS API called is deleteMMSSvc()
```

Output Parameters

NA

A_ER-MMS_2-0_DEL_USER

Delete User. It is implemented by the Java method **com.mslv.cartridge.oss.ERICS_MMS_20.UserProv.deleteUser.**

Table 2–14 A_ER-MMS_2-0_DEL_USER

Parameter Name	Description	Range	Default Value	Type	Class
MCLI	Host NE identifier.	N/A	N/A	S	R
USERID	The name of the user.	N/A	N/A	S	R

MML commands

MML Syntax :

```
Removes a system user from the database.

The MMS API called is deleteUser()
```

Output Parameters

NA

A_ER-MMS_2-0_MOD_SUB

Modify subscriber. It is implemented by the Java method **com.mslv.cartridge.oss.ERICS_MMS_20.SubscriberProv.modifySubscriber.**

Table 2–15 A_ER-MMS_2-0_MOD_SUB

Parameter Name	Description	Range	Default Value	Type	Class
MCLI	Host NE identifier.	N/A	N/A	S	R
MSISDN	Mobile Station Integrated Services Digital Network Number. Uniquely identifies the mobile subscriber.	N/A	N/A	S	R
COMMUNITY	Name of the community.	N/A	N/A	S	O
MMSSVCNAME	Name of the service.	N/A	N/A	S	O
SVCENABLED	Identifies the service that is being enabled.	N/A	N/A	S	O
DELIVERYMETHOD	Delivery method.	N/A	N/A	S	O
CPYINGEMAIL	Required if CPYALLTOEMAIL or CPYMOTOEMAIL is set to true	N/A	N/A	S	O
ALTERNATEMSISDN	Required if FWDALLTOMSISDN or CPYALLTOMSISDN is set to true	N/A	N/A	S	O
FWDINGEMAIL	Required if FWDALLTOEMAIL is set to true	N/A	N/A	S	O
FWDALLTOEMAIL	Forward all to email	N/A	N/A	S	O
FWDALLTOMSISDN	forward all to MSISDN	N/A	N/A	S	O
CPYALLTOMSISDN	Copy all to MSISDN	N/A	N/A	S	O
CPYALLTOEMAIL	Copy all to email	N/A	N/A	S	O
CPYMOTOEMAIL	Copy MO to email	N/A	N/A	S	O
LAWFULINTERCEPT	Lawful intercept	N/A	N/A	S	O
PROMOTIONPLAN	Promotion plan	N/A	N/A	S	O
DISCOUNTPLAN	Discount plan	N/A	N/A	S	O
MARKETPLAN	Market Plan	N/A	N/A	S	O
RATEVITALS	Rate vitals	N/A	N/A	S	O
CUSTOM1	Custom 1	N/A	N/A	S	O
CUSTOM2	Custom 2	N/A	N/A	S	O
TERMINALMANUF	Terminal Manuf	N/A	N/A	S	O
TERMINALMODEL	Terminal Model	N/A	N/A	S	O
LANGUAGEPREF	Language preference.	N/A	N/A	S	O
CURRENCYPREF	Currency preference.	N/A	N/A	S	O
ALLOWMO	Allow MO	N/A	N/A	S	O
ALLOWMT	Allow MT	N/A	N/A	S	O
PREPAIDACCOUNTROUTE	Prepaid account route	N/A	N/A	S	O
USERPASSWORD	User password.	N/A	N/A	S	O

MML commands

MML Syntax :

```
Uniquely identifies the subscriber using the MSISDN and modifies subscriber
attributes, such
as service name, service status, community name, and email information.

The MMS API called is modifySub()
```

Output Parameters

NA

A_ER-MMS_2-0_MOD_SVC

Modify service. It is implemented by the Java method **com.mslv.cartridge.oss.ERICS_MMS_20.ServiceProv.modifyService.**

Table 2–16 A_ER-MMS_2-0_MOD_SVC

Parameter Name	Description	Range	Default Value	Type	Class
MCLI	Host NE identifier.	N/A	N/A	S	R
SERVICENAME	The name of service.	N/A	N/A	S	R
MMSCHARGETYPE	Type of charge.	N/A	N/A	S	O
PREPAIDCLASSOFSVC	Prepaid class of service.	N/A	N/A	S	O
ALLOWSPECFWDINGEMAIL	Allow specific forwarding email	N/A	N/A	S	O
ALLOWSPECCPYINGEMAIL	Allow specific copying email	N/A	N/A	S	O
ALLOWCPYALLTOMSISDN	Allow copy all to MSISDN	N/A	N/A	S	O
ALLOWFWDALLTOMSISDN	Allow forward all to MSISDN	N/A	N/A	S	O
ALLOWCPYALLTOEMAIL	Allow copy all to email	N/A	N/A	S	O
FWDINGDOMAIN	Forwarding domain.Required if ALLOWSPECFWDINGEMAIL is set to false	N/A	N/A	S	O
CPYINGDOMAIN	Copying domain.Required if ALLOWSPECCPYINGEMAIL is set to false	N/A	N/A	S	O
LAWFULINTERCEPTDOMAIN	Lawful intercept domain.Required if LAWFULINTERCEPTDEST is set to domain	N/A	N/A	S	O
LAWFULINTERCEPTDEST	Lawful intercept destination	N/A	N/A	S	O
DESCRIPTION	Description.	N/A	N/A	S	O

MML commands

MML Syntax :

```
Modifies an MMS service,including the service information in the database.
```

```
The MMS API called is modifyMMSSvc()
```

Output Parameters

NA

A_ER-MMS_2-0_MOD_USER

Mod User. It is implemented by the Java method **com.mslv.cartridge.oss.ERICS_MMS_20.UserProv.modifyUser.**

Table 2–17 A_ER-MMS_2-0_MOD_USER

Parameter Name	Description	Range	Default Value	Type	Class
MCLI	Host NE identifier.	N/A	N/A	S	R
USERID	The name of the user.	N/A	N/A	S	R
USERPASSWORD	The password assigned to the user.	N/A	N/A	S	O
PERMISSIONS	The permissions assigned to the user.	N/A	N/A	S	O

MML commands

MML Syntax :

```
Modifies a system user in the database by changing information about the user,
such as
password and permissions.

The MMS API called is modifyUser()
```

Output Parameters

NA

A_ER-MMS_2-0_QRY_BLK-COMM

List community subscribers. It is implemented by the Java method **com.mslv.cartridge.oss.ERICS_MMS_20.BulkProv.listSubsInCommunity.**

Table 2–18 A_ER-MMS_2-0_QRY_BLK-COMM

Parameter Name	Description	Range	Default Value	Type	Class
MCLI	Host NE identifier.	N/A	N/A	S	R
COMMUNITYNAME	The name of the community.	N/A	N/A	S	R

MML commands

MML Syntax :

```
Lists the subscribers that are contained within a specified community. All
retrieved values are
stored in ASAP information parameters and are available to upstream systems.

The MMS API called is listSubsInCommunity()
```

Output Parameters

NA

A_ER-MMS_2-0_QRY_COMM

Query community. It is implemented by the Java method **com.mslv.cartridge.oss.ERICS_MMS_20.CommunityProv.listCommunities.**

Table 2–19 A_ER-MMS_2-0_QRY_COMM

Parameter Name	Description	Range	Default Value	Type	Class
MCLI	Host NE identifier.	N/A	N/A	S	R

MML commands

MML Syntax :

```
Lists all of the communities in the database. All retrieved values are stored in
ASAP
information parameters and are available to upstream systems.

The MMS API called is listCommunities()
```

Output Parameters

NA

A_ER-MMS_2-0_QRY_SUB

Query subscriber. It is implemented by the Java method **com.mslv.cartridge.oss.ERICS_MMS_20.SubscriberProv.retrieveSubscriber.**

Table 2–20 A_ER-MMS_2-0_QRY_SUB

Parameter Name	Description	Range	Default Value	Type	Class
MCLI	Host NE identifier.	N/A	N/A	S	R
MSISDN	Mobile Station Integrated Services Digital Network Number. Uniquely identifies the mobile subscriber.	N/A	N/A	S	R

MML commands

MML Syntax :

```
Uniquely identifies a subscriber using the MSISDN and retrieves all subscriber
attributes from
the database. All retrieved values are stored in ASAP information parameters and
are available
to upstream systems.

The MMS API called is retrieveSub()
```

Output Parameters

NA

A_ER-MMS_2-0_QRY_SVC

Query service. It is implemented by the Java method **com.mslv.cartridge.oss.ERICS_MMS_20.ServiceProv.retrieveService.**

Table 2–21 A_ER-MMS_2-0_QRY_SVC

Parameter Name	Description	Range	Default Value	Type	Class
MCLI	Host NE identifier.	N/A	N/A	S	R
SERVICENAME	The name of service.	N/A	N/A	S	R

MML commands

MML Syntax :

```
Retrieves an MMS service from the database, based on the service name. All
retrieved values
are stored in ASAP information parameters and are available to upstream systems.

The MMS API called is retrieveMMSSvc()
```

Output Parameters

NA

A_ER-MMS_2-0_QRY_SVCS

List all services. It is implemented by the Java method **com.mslv.cartridge.oss.ERICS_MMS_20.ServiceProv.listServices.**

Table 2–22 A_ER-MMS_2-0_QRY_SVCS

Parameter Name	Description	Range	Default Value	Type	Class
MCLI	Host NE identifier.	N/A	N/A	S	R

MML commands

MML Syntax :

```
Lists and retrieves all MMS services from the database. All retrieved values are
stored in
ASAP information parameters and are available to upstream systems.

The MMS API called is listMMSSvcs()
```

Output Parameters

NA

A_ER-MMS_2-0_QRY_USER

Query User. It is implemented by the Java method **com.mslv.cartridge.oss.ERICS_MMS_20.UserProv.retrieveUser.**

Table 2–23 A_ER-MMS_2-0_QRY_USER

Parameter Name	Description	Range	Default Value	Type	Class
MCLI	Host NE identifier.	N/A	N/A	S	R
USERID	The name of the user.	N/A	N/A	S	R

MML commands

MML Syntax :

```
Retrieves a system user from the database. All retrieved values are stored in ASAP
information parameters and are available to upstream systems.

The MMS API called is retrieveUser()
```

Output Parameters

NA

A_ER-MMS_2-0_QRY_USERS

List All Users. It is implemented by the Java method **com.mslv.cartridge.oss.ERICS_MMS_20.UserProv.listUsers.**

Table 2–24 A_ER-MMS_2-0_QRY_USERS

Parameter Name	Description	Range	Default Value	Type	Class
MCLI	Host NE identifier.	N/A	N/A	S	R

MML commands

MML Syntax :

```
Lists all of the users in the database that have administrative and customer care
permissions.
All retrieved values are stored in ASAP information parameters and are available
to upstream
systems.

The MMS API called is listUsers()
```

Output Parameters

NA

A_ER-MMS_2-0_QRY_USERS-CR

List All Current Logged Users. It is implemented by the Java method **com.mslv.cartridge.oss.ERICS_MMS_20.UserProv.listCurrentUsers.**

Table 2–25 A_ER-MMS_2-0_QRY_USERS-CR

Parameter Name	Description	Range	Default Value	Type	Class
MCLI	Host NE identifier.	N/A	N/A	S	R

MML commands

MML Syntax :

```
Lists all of the users that are currently logged on to the Subscriber and Operator
Services
(SOS) component. It also provides the Internet Protocol (IP) addresses of the
systems from
which these users logged on to the SOS component. All retrieved values are stored
in ASAP
information parameters and are available to upstream systems.

The MMS API called is listCurrentUsers()
```

Output Parameters

NA

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's Guide* and the *ASAP System Administrator's 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>
<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>...4
<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>...5
<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>...6
<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 numbered elements highlighted in bold in the previous code sample are explained as follows:

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.

4. 101 to 110 and 201 to 215 will translate to a base type of SOFT_FAIL
5. 801-850 will translate to a base type of SOFT_FAIL. Note that the user type differs from the previous range.
6. 251 to 275 but not 261 to 265 will translate to a base type of DELAYED_FAILURE.

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"
- ^(?=.*?\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 the *ASAP Developer's Guide*.

User Defined ASDL Exit Types

The following table lists the user defined ASDL exit types.

Table 2–26 User Defined ASDL Exit Types

Search Pattern	User Type	Base Type	Description
EXECUTED	SUCCEED	SUCCEED	Description goes Here.
ERMMS_FCODE_1	ERMMS_FCODE_1	FAIL	MMS error code 1
ERMMS_FCODE_2	ERMMS_FCODE_2	FAIL	MMS error code 2
ERMMS_FCODE_3	ERMMS_FCODE_3	FAIL	MMS error code 3
ERMMS_FCODE_4	ERMMS_FCODE_4	FAIL	MMS error code 4
ERMMS_FCODE_5	ERMMS_FCODE_5	FAIL	MMS error code 5
ERMMS_FCODE_6	ERMMS_FCODE_6	FAIL	MMS error code 6
ERMMS_FCODE_7	ERMMS_FCODE_7	FAIL	MMS error code 7
ERMMS_FCODE_8	ERMMS_FCODE_8	FAIL	MMS error code 8
ERMMS_FCODE_9	ERMMS_FCODE_9	FAIL	MMS error code 9
ERMMS_FCODE_10	ERMMS_FCODE_10	FAIL	MMS error code 10
ERMMS_FCODE_11	ERMMS_FCODE_11	FAIL	MMS error code 11
ERMMS_FCODE_12	ERMMS_FCODE_12	FAIL	MMS error code 12
ERMMS_FCODE_13	ERMMS_FCODE_13	FAIL	MMS error code 13
ERMMS_FCODE_14	ERMMS_FCODE_14	FAIL	MMS error code 14
ERMMS_FCODE_15	ERMMS_FCODE_15	FAIL	MMS error code 15
ERMMS_FCODE_16	ERMMS_FCODE_16	FAIL	MMS error code 16
ERMMS_FCODE_17	ERMMS_FCODE_17	FAIL	MMS error code 17
ERMMS_FCODE_18	ERMMS_FCODE_18	FAIL	MMS error code 18

Table 2–26 (Cont.) User Defined ASDL Exit Types

Search Pattern	User Type	Base Type	Description
ERMMS_FCODE_19	ERMMS_FCODE_19	FAIL	MMS error code 19
ERMMS_FCODE_20	ERMMS_FCODE_20	FAIL	MMS error code 20
ERMMS_FCODE_21	ERMMS_FCODE_21	FAIL	MMS error code 21
ERMMS_FCODE_22	ERMMS_FCODE_22	FAIL	MMS error code 22
ERMMS_FCODE_23	ERMMS_FCODE_23	FAIL	MMS error code 23
ERMMS_FCODE_24	ERMMS_FCODE_24	FAIL	MMS error code 24
ERMMS_FCODE_25	ERMMS_FCODE_25	FAIL	MMS error code 25
ERMMS_FCODE_26	ERMMS_FCODE_26	FAIL	MMS error code 26
ERMMS_FCODE_27	ERMMS_FCODE_27	FAIL	MMS error code 27
ERMMS_FCODE_28	ERMMS_FCODE_28	FAIL	MMS error code 28
ERMMS_FCODE_29	ERMMS_FCODE_29	FAIL	MMS error code 29
ERMMS_FCODE_30	ERMMS_FCODE_30	FAIL	MMS error code 30
ERMMS_FCODE_31	ERMMS_FCODE_31	FAIL	MMS error code 31
ERMMS_FCODE_32	ERMMS_FCODE_32	FAIL	MMS error code 32
ERMMS_FCODE_33	ERMMS_FCODE_33	FAIL	MMS error code 33
ERMMS_FCODE_34	ERMMS_FCODE_34	FAIL	MMS error code 34
ERMMS_FCODE_35	ERMMS_FCODE_35	FAIL	MMS error code 35
ERMMS_FCODE_36	ERMMS_FCODE_36	FAIL	MMS error code 36
ERMMS_FCODE_37	ERMMS_FCODE_37	FAIL	MMS error code 37
ERMMS_FCODE_38	ERMMS_FCODE_38	FAIL	MMS error code 3
ERMMS_FCODE_39	ERMMS_FCODE_39	FAIL	MMS error code 39
ERMMS_FCODE_40	ERMMS_FCODE_40	FAIL	MMS error code 40
ERMMS_FCODE_41	ERMMS_FCODE_41	FAIL	MMS error code 41
ERMMS_FCODE_42	ERMMS_FCODE_42	FAIL	MMS error code 42
ERMMS_FCODE_43	ERMMS_FCODE_43	FAIL	MMS error code 43
ERMMS_FCODE_44	ERMMS_FCODE_44	FAIL	MMS error code 44
ERMMS_FCODE_45	ERMMS_FCODE_45	FAIL	MMS error code 45
ERMMS_FCODE_46	ERMMS_FCODE_46	FAIL	MMS error code 46
ERMMS_FCODE_47	ERMMS_FCODE_47	FAIL	MMS error code 47
ERMMS_FCODE_48	ERMMS_FCODE_48	FAIL	MMS error code 48
ERMMS_FCODE_49	ERMMS_FCODE_49	FAIL	MMS error code 49
ERMMS_FCODE_50	ERMMS_FCODE_50	FAIL	MMS error code 50
ERMMS_FCODE_51	ERMMS_FCODE_51	FAIL	MMS error code 51
ERMMS_FCODE_52	ERMMS_FCODE_52	FAIL	MMS error code 52
ERMMS_FCODE_53	ERMMS_FCODE_53	FAIL	MMS error code 53
ERMMS_FCODE_54	ERMMS_FCODE_54	FAIL	MMS error code 54
ERMMS_FCODE_55	ERMMS_FCODE_55	FAIL	MMS error code 55

Table 2–26 (Cont.) User Defined ASDL Exit Types

Search Pattern	User Type	Base Type	Description
ERMMS_FCODE_56	ERMMS_FCODE_56	FAIL	MMS error code 56
ERMMS_FCODE_57	ERMMS_FCODE_57	FAIL	MMS error code 57
ERMMS_FCODE_58	ERMMS_FCODE_58	FAIL	MMS error code 58
ERMMS_FCODE_59	ERMMS_FCODE_59	FAIL	MMS error code 59
ERMMS_FCODE_60	ERMMS_FCODE_60	FAIL	MMS error code 60
ERMMS_FCODE_61	ERMMS_FCODE_61	FAIL	MMS error code 61
ERMMS_FCODE_62	ERMMS_FCODE_62	FAIL	MMS error code 62
ERMMS_FCODE_63	ERMMS_FCODE_63	FAIL	MMS error code 63
ERMMS_FCODE_64	ERMMS_FCODE_64	FAIL	MMS error code 64
ERMMS_FCODE_65	ERMMS_FCODE_65	FAIL	MMS error code 65
ERMMS_FCODE_66	ERMMS_FCODE_66	FAIL	MMS error code 66
ERMMS_FCODE_67	ERMMS_FCODE_67	FAIL	MMS error code 67
ERMMS_FCODE_68	ERMMS_FCODE_68	FAIL	MMS error code 68
ERMMS_FCODE_69	ERMMS_FCODE_69	FAIL	MMS error code 69
ERMMS_FCODE_70	ERMMS_FCODE_70	FAIL	MMS error code 70
ERMMS_FCODE_71	ERMMS_FCODE_71	FAIL	MMS error code 71
ERMMS_FCODE_72	ERMMS_FCODE_72	FAIL	MMS error code 72
ERMMS_FCODE_73	ERMMS_FCODE_73	FAIL	MMS error code 73
ERMMS_FCODE_74	ERMMS_FCODE_74	FAIL	MMS error code 74
ERMMS_FCODE_75	ERMMS_FCODE_75	FAIL	MMS error code 75
ERMMS_FCODE_76	ERMMS_FCODE_76	FAIL	MMS error code 76
ERMMS_FCODE_77	ERMMS_FCODE_77	FAIL	MMS error code 77
ERMMS_FCODE_78	ERMMS_FCODE_78	FAIL	MMS error code 78
ERMMS_FCODE_79	ERMMS_FCODE_79	FAIL	MMS error code 79
ERMMS_FCODE_80	ERMMS_FCODE_80	FAIL	MMS error code 80
ERMMS_FCODE_81	ERMMS_FCODE_81	FAIL	MMS error code 81
ERMMS_FCODE_82	ERMMS_FCODE_82	FAIL	MMS error code 82
ERMMS_FCODE_83	ERMMS_FCODE_83	FAIL	MMS error code 83
ERMMS_FCODE_84	ERMMS_FCODE_84	FAIL	MMS error code 84
ERMMS_FCODE_85	ERMMS_FCODE_85	FAIL	MMS error code 85
ERMMS_FCODE_86	ERMMS_FCODE_86	FAIL	MMS error code 86
ERMMS_FCODE_87	ERMMS_FCODE_87	FAIL	MMS error code 87
ERMMS_FCODE_88	ERMMS_FCODE_88	FAIL	MMS error code 88
ERMMS_FCODE_89	ERMMS_FCODE_89	FAIL	MMS error code 89
ERMMS_FCODE_90	ERMMS_FCODE_90	FAIL	MMS error code 90
ERMMS_FCODE_91	ERMMS_FCODE_91	FAIL	MMS error code 91
ERMMS_FCODE_92	ERMMS_FCODE_92	FAIL	MMS error code 92

Table 2–26 (Cont.) User Defined ASDL Exit Types

Search Pattern	User Type	Base Type	Description
ERMMS_FCODE_93	ERMMS_FCODE_93	FAIL	MMS error code 93
ERMMS_FCODE_94	ERMMS_FCODE_94	FAIL	MMS error code 94
ERMMS_FCODE_95	ERMMS_FCODE_95	FAIL	MMS error code 95
ERMMS_FCODE_96	ERMMS_FCODE_96	FAIL	MMS error code 96
ERMMS_FCODE_97	ERMMS_FCODE_97	FAIL	MMS error code 97
ERMMS_FCODE_98	ERMMS_FCODE_98	FAIL	MMS error code 98
ERMMS_FCODE_99	ERMMS_FCODE_99	FAIL	MMS error code 99
ERMMS_FCODE_100	ERMMS_FCODE_100	FAIL	MMS error code 100
ERMMS_FCODE_-1	ERMMS_FCODE_-1	FAIL	MMS error code -1

UserExitType.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<serviceModel xmlns="http://www.metasolv.com/ServiceActivation/2003/ServiceModel">
     <userDefinedExitType>
          <neDescriptor>
               <softwareLoad>2.0<//softwareLoad>
               <technology>MMS<//technology>
               <neVendor>ER<//neVendor>
          <//neDescriptor>
          <searchPattern>EXECUTED<//searchPattern>
          <userType>SUCCEED<//userType>
          <baseType>SUCCEED<//baseType>
          <description>Description goes Here.<//description>
     <//userDefinedExitType>
     ..................
     <//serviceModel >
```

3

Service Definition

The Ericsson_MMS_20_MultiMediaMsg Cartridge 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 about the CSDL parameters in this cartridge. The following table lists and describes the type of parameter information that is included.

Table 3–1 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.
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's Guide*.

Table 3–1 (Cont.) ASDL Parameter Information

Item	Description
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 System Administrator's Guide.*

CSDL Commands

This cartridge provides the following CSDL commands:

- C_ER-MMS_2-0_ADD_BLK-SUB
- C_ER-MMS_2-0_ADD_COMM
- C_ER-MMS_2-0_ADD_SUB
- C_ER-MMS_2-0_ADD_SUB-BY-TEMPLATE
- C_ER-MMS_2-0_ADD_SVC
- C_ER-MMS_2-0_ADD_USER
- C_ER-MMS_2-0_ADD_USER-ADM
- C_ER-MMS_2-0_ADD_USER-CUS
- C_ER-MMS_2-0_ADD_USER-LAW
- C_ER-MMS_2-0_DEL_COMM
- C_ER-MMS_2-0_DEL_SUB
- C_ER-MMS_2-0_DEL_SVC
- C_ER-MMS_2-0_DEL_USER
- C_ER-MMS_2-0_MOD_SUB
- C_ER-MMS_2-0_MOD_SVC
- C_ER-MMS_2-0_MOD_USER
- C_ER-MMS_2-0_QRY_BLK-COMM
- C_ER-MMS_2-0_QRY_COMM
- C_ER-MMS_2-0_QRY_SUB
- C_ER-MMS_2-0_QRY_SVC
- C_ER-MMS_2-0_QRY_SVCS
- C_ER-MMS_2-0_QRY_USER
- C_ER-MMS_2-0_QRY_USERS

- C_ER-MMS_2-0_QRY_USERS-CR

C_ER-MMS_2-0_ADD_BLK-SUB

Add Bulk Subscribers.

Table 3–2 C_ER-MMS_2-0_ADD_BLK-SUB

Parameter Name	Description	Range	Default Value	Type	Class
FIRSTMSISDN	The first subscriber number.	N/A	N/A	S	R
LASTMSISDN	The final subscriber number.	N/A	N/A	S	R
NE_ID_MMS	Host NE identifier.	N/A	N/A	S	R
SUBTEMPLATENUM	The subscriber template number.	N/A	N/A	S	R
SVCTEMPLATENUM	The service template number.	N/A	N/A	S	R

Mapping to ASDLs

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

Table 3–3 CSDL to ASDL Mapping

CSDL	ASDL
C_ER-MMS_2-0_ADD_BLK-SUB	A_ER-MMS_2-0_ADD_BLK-SUB

C_ER-MMS_2-0_ADD_COMM

Add Community.

Table 3–4 C_ER-MMS_2-0_ADD_COMM

Parameter Name	Description	Range	Default Value	Type	Class
COMMUNITYNAME	The name of the community.	N/A	N/A	S	R
NE_ID_MMS	Host NE identifier.	N/A	N/A	S	R

Mapping to ASDLs

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

Table 3–5 CSDL to ASDL Mapping

CSDL	ASDL
C_ER-MMS_2-0_ADD_COMM	A_ER-MMS_2-0_ADD_COMM

C_ER-MMS_2-0_ADD_SUB

Add Subscriber.

Table 3–6 C_ER-MMS_2-0_ADD_SUB

Parameter Name	Description	Range	Default Value	Type	Class
ALLOWMO	Allow MO	N/A	N/A	S	R
ALLOWMT	Allow MT	N/A	N/A	S	R
ALTERNATEMSISDN	Required if FWDALLTOMSISDN or CPYALLTOMSISDN is set to true	N/A	N/A	S	O
COMMUNITY	Name of the community.	N/A	N/A	S	R
CPYALLTOEMAIL	Copy all to email	N/A	N/A	S	R
CPYALLTOMSISDN	Copy all to MSISDN	N/A	N/A	S	R
CPYINGEMAIL	Required if CPYALLTOEMAIL or CPYMOTOEMAIL is set to true	N/A	N/A	S	O
CPYMOTOEMAIL	Copy MO to email	N/A	N/A	S	R
CURRENCYPREF	Currency Preference	N/A	N/A	S	O
CUSTOM1	Custom 1	N/A	N/A	S	O
CUSTOM2	Custom 2	N/A	N/A	S	O
DELIVERYMETHOD	Delivery method.	N/A	N/A	S	R
DISCOUNTPLAN	Discount plan	N/A	N/A	S	R
FWDALLTOEMAIL	Forward all to email	N/A	N/A	S	R
FWDALLTOMSISDN	forward all to MSISDN	N/A	N/A	S	R
FWDINGEMAIL	Required if FWDALLTOEMAIL is set to true	N/A	N/A	S	O
LANGUAGEPREF	Language Preference	N/A	N/A	S	O
LAWFULINTERCEPT	Lawful intercept	N/A	N/A	S	R
MARKETPLAN	Market plan	N/A	N/A	S	R
MMSSVCNAME	Name of the service.	N/A	N/A	S	R
MSISDN	Mobile Station Integrated Services Digital Network Number. Uniquely identifies the mobile subscriber.	N/A	N/A	S	R
NE_ID_MMS	Mobile Station Integrated Services Digital Network Number. Uniquely identifies the mobile subscriber.	N/A	N/A	S	R
PREPAIDACCOUNTROUTE	Prepaid account route	N/A	N/A	S	R
PROMOTIONPLAN	Promotion plan	N/A	N/A	S	R
RATEVITALS	Rate vitals	N/A	N/A	S	R
SVCENABLED	Identifies the service that is being enabled.	N/A	N/A	S	R
TERMINALMANUF	Terminal Manuf	N/A	N/A	S	O
TERMINALMODEL	Terminal model	N/A	N/A	S	O
USERPASSWORD	User password	N/A	N/A	S	R

Mapping to ASDLs

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

Table 3–7 CSDL to ASDL Mapping

CSDL	ASDL
C_ER-MMS_2-0_ADD_SUB	A_ER-MMS_2-0_ADD_SUB

C_ER-MMS_2-0_ADD_SUB-BY-TEMPLATE

Add Subscriber By Template.

Table 3–8 C_ER-MMS_2-0_ADD_SUB-BY-TEMPLATE

Parameter Name	Description	Range	Default Value	Type	Class
MMS_SVC_ TEMPLATE_NUM	MMS Service Template Number	N/A	N/A	S	R
MSISDN	Mobile Station Integrated Services Digital Network Number. Uniquely identifies the mobile subscriber.	N/A	N/A	S	R
NE_ID_MMS	Mobile Station Integrated Services Digital Network Number. Uniquely identifies the mobile subscriber.	N/A	N/A	S	R
SUB_TEMPLATE_ NUM	Subscriber template number.	N/A	N/A	S	R

Mapping to ASDLs

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

Table 3–9 CSDL to ASDL Mapping

CSDL	ASDL
C_ER-MMS_2-0_ADD_SUB-BY-TEMPLATE	A_ER-MMS_2-0_ADD_SUB-BY-TEMPLATE

C_ER-MMS_2-0_ADD_SVC

Add Service.

Table 3–10 C_ER-MMS_2-0_ADD_SVC

Parameter Name	Description	Range	Default Value	Type	Class
ALLOWCPYALLTOE MAIL	Allow copy all to email	N/A	N/A	S	R
ALLOWCPYALLTOM SISDN	Allow copy all to MSISDN	N/A	N/A	S	R
ALLOWFWDALLTOM SISDN	Allow forward all to MSISDN	N/A	N/A	S	R
ALLOWSPECCPYING EMAIL	Allow specific copying email	N/A	N/A	S	R
ALLOWSPECFWDING EMAIL	Allow specific forwarding email	N/A	N/A	S	R

Table 3–10 (Cont.) C_ER-MMS_2-0_ADD_SVC

Parameter Name	Description	Range	Default Value	Type	Class
CPYINGDOMAIN	copying domain.Required if ALLOWSPECCPYINGEMAIL is set to false	N/A	N/A	S	O
DESCRIPTION	Description.	N/A	N/A	S	R
FWDINGDOMAIN	forwarding domain. Required if ALLOWSPECFWDINGEMAIL is set to false	N/A	N/A	S	O
LAWFULINTERCEPTDEST	Lawful intercept destination.	N/A	N/A	S	O
LAWFULINTERCEPTDOMAIN	Lawful intercept domain.Required if LAWFULINTERCEPTDEST is set to domain	N/A	N/A	S	O
MMSCHARGETYPE	Type of charge.	N/A	N/A	S	R
NE_ID_MMS	Host NE identifier.	N/A	N/A	S	R
PREPAIDCLASSOFSVC	Prepaid class of service	N/A	N/A	S	R
SERVICENAME	Name of the service.	N/A	N/A	S	R

Mapping to ASDLs

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

Table 3–11 CSDL to ASDL Mapping

CSDL	ASDL
C_ER-MMS_2-0_ADD_SVC	A_ER-MMS_2-0_ADD_SVC

C_ER-MMS_2-0_ADD_USER

Add User.

Table 3–12 C_ER-MMS_2-0_ADD_USER

Parameter Name	Description	Range	Default Value	Type	Class
NE_ID_MMS	Host NE identifier.	N/A	N/A	S	R
PERMISSIONS	The permissions assigned to the user.	N/A	N/A	S	R
USERID	The name of the user.	N/A	N/A	S	R
USERPASSWORD	The password assigned to the user.	N/A	N/A	S	R

Mapping to ASDLs

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

Table 3–13 CSDL to ASDL Mapping

CSDL	ASDL
C_ER-MMS_2-0_ADD_USER	A_ER-MMS_2-0_ADD_USER

C_ER-MMS_2-0_ADD_USER-ADM

Add Admin User.

Table 3–14 C_ER-MMS_2-0_ADD_USER-ADM

Parameter Name	Description	Range	Default Value	Type	Class
NE_ID_MMS	Host NE identifier.	N/A	N/A	S	R
PERMISSIONS	The permissions assigned to the user.	N/A	N/A	S	R
USERID	The name of the user.	N/A	N/A	S	R
USERPASSWORD	The password assigned to the user.	N/A	N/A	S	R

Mapping to ASDLs

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

Table 3–15 CSDL to ASDL Mapping

CSDL	ASDL
C_ER-MMS_2-0_ADD_USER-ADM	A_ER-MMS_2-0_ADD_USER-ADM

C_ER-MMS_2-0_ADD_USER-CUS

Add Customer Care User.

Table 3–16 C_ER-MMS_2-0_ADD_USER-CUS

Parameter Name	Description	Range	Default Value	Type	Class
NE_ID_MMS	Host NE identifier.	N/A	N/A	S	R
PERMISSIONS	The permissions assigned to the user.	N/A	N/A	S	R
USERID	The name of the user.	N/A	N/A	S	R
USERPASSWORD	The password assigned to the user.	N/A	N/A	S	R

Mapping to ASDLs

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

Table 3–17 CSDL to ASDL Mapping

CSDL	ASDL
C_ER-MMS_2-0_ADD_USER-CUS	A_ER-MMS_2-0_ADD_USER-CUS

C_ER-MMS_2-0_ADD_USER-LAW

Add Law Enforcement User.

Table 3–18 C_ER-MMS_2-0_ADD_USER-LAW

Parameter Name	Description	Range	Default Value	Type	Class
NE_ID_MMS	Host NE identifier.	N/A	N/A	S	R
PERMISSIONS	The permissions assigned to the user.	N/A	N/A	S	R
USERID	The name of the user.	N/A	N/A	S	R
USERPASSWORD	The password assigned to the user.	N/A	N/A	S	R

Mapping to ASDLs

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

Table 3–19 CSDL to ASDL Mapping

CSDL	ASDL
C_ER-MMS_2-0_ADD_USER-LAW	A_ER-MMS_2-0_ADD_USER-LAW

C_ER-MMS_2-0_DEL_COMM

Delete Community.

Table 3–20 C_ER-MMS_2-0_DEL_COMM

Parameter Name	Description	Range	Default Value	Type	Class
COMMUNITYNAME	The name of the community.	N/A	N/A	S	R
NE_ID_MMS	Host NE identifier.	N/A	N/A	S	R

Mapping to ASDLs

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

Table 3–21 CSDL to ASDL Mapping

CSDL	ASDL
C_ER-MMS_2-0_DEL_COMM	A_ER-MMS_2-0_DEL_COMM

C_ER-MMS_2-0_DEL_SUB

Delete Subscriber.

Table 3–22 C_ER-MMS_2-0_DEL_SUB

Parameter Name	Description	Range	Default Value	Type	Class
MSISDN	Mobile Station Integrated Services Digital Network Number. Uniquely identifies the mobile subscriber.	N/A	N/A	S	R
NE_ID_MMS	Host NE identifier.	N/A	N/A	S	R

Mapping to ASDLs

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

Table 3–23 CSDL to ASDL Mapping

CSDL	ASDL
C_ER-MMS_2-0_DEL_SUB	A_ER-MMS_2-0_DEL_SUB

C_ER-MMS_2-0_DEL_SVC

Delete Service.

Table 3–24 C_ER-MMS_2-0_DEL_SVC

Parameter Name	Description	Range	Default Value	Type	Class
NE_ID_MMS	Host NE identifier.	N/A	N/A	S	R
SERVICENAME	The name of service.	N/A	N/A	S	R

Mapping to ASDLs

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

Table 3–25 CSDL to ASDL Mapping

CSDL	ASDL
C_ER-MMS_2-0_DEL_SVC	A_ER-MMS_2-0_DEL_SVC

C_ER-MMS_2-0_DEL_USER

Delete User.

Table 3–26 C_ER-MMS_2-0_DEL_USER

Parameter Name	Description	Range	Default Value	Type	Class
NE_ID_MMS	Host NE identifier.	N/A	N/A	S	R
USERID	The name of the user.	N/A	N/A	S	R

Mapping to ASDLs

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

Table 3–27 CSDL to ASDL Mapping

CSDL	ASDL
C_ER-MMS_2-0_DEL_USER	A_ER-MMS_2-0_DEL_USER

C_ER-MMS_2-0_MOD_SUB

Modify Subscriber.

Table 3–28 C_ER-MMS_2-0_MOD_SUB

Parameter Name	Description	Range	Default Value	Type	Class
ALLOWMO	Allow MO	N/A	N/A	S	O
ALLOWMT	Allow MT	N/A	N/A	S	O
ALTERNATEMSISDN	Required if FWDALLTOMSISDN or CPYALLTOMSISDN is set to true	N/A	N/A	S	O
COMMUNITY	Name of the community.	N/A	N/A	S	O
CPYALLTOEMAIL	Copy all to email	N/A	N/A	S	O
CPYALLTOMSISDN	Copy all to MSISDN	N/A	N/A	S	O
CPYINGEMAIL	Required if CPYALLTOEMAIL or CPYMOTOEMAIL is set to true	N/A	N/A	S	O
CPYMOTOEMAIL	Copy MO to email	N/A	N/A	S	O
CURRENCYPREF	Currency preference.	N/A	N/A	S	O
CUSTOM1	Custom 1	N/A	N/A	S	O
CUSTOM2	Custom 2	N/A	N/A	S	O
DELIVERYMETHOD	Delivery method.	N/A	N/A	S	O
DISCOUNTPLAN	Discount plan	N/A	N/A	S	O
FWDALLTOEMAIL	Forward all to email	N/A	N/A	S	O
FWDALLTOMSISDN	forward all to MSISDN	N/A	N/A	S	O
FWDINGEMAIL	Required if FWDALLTOEMAIL is set to true	N/A	N/A	S	O
LANGUAGEPREF	Language preference.	N/A	N/A	S	O
LAWFULINTERCEPT	Lawful intercept	N/A	N/A	S	O
MARKETPLAN	Market Plan	N/A	N/A	S	O
MMSSVCNAME	Name of the service.	N/A	N/A	S	O
MSISDN	Mobile Station Integrated Services Digital Network Number. Uniquely identifies the mobile subscriber.	N/A	N/A	S	R
NE_ID_MMS	Host NE identifier.	N/A	N/A	S	R
PREPAIDACCOUNTROUTE	Prepaid account route	N/A	N/A	S	O
PROMOTIONPLAN	Promotion plan	N/A	N/A	S	O
RATEVITALS	Rate vitals	N/A	N/A	S	O
SVCENABLED	Identifies the service that is being enabled.	N/A	N/A	S	O
TERMINALMANUF	Terminal Manuf	N/A	N/A	S	O
TERMINALMODEL	Terminal Model	N/A	N/A	S	O
USERPASSWORD	User password.	N/A	N/A	S	O

Mapping to ASDLs

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

Table 3–29 CSDL to ASDL Mapping

CSDL	ASDL
C_ER-MMS_2-0_MOD_SUB	A_ER-MMS_2-0_MOD_SUB

C_ER-MMS_2-0_MOD_SVC

Mod Service.

Table 3–30 C_ER-MMS_2-0_MOD_SVC

Parameter Name	Description	Range	Default Value	Type	Class
ALLOWCPYALLTOEMAIL	Allow copy all to email	N/A	N/A	S	O
ALLOWCPYALLTOMSISDN	Allow copy all to MSISDN	N/A	N/A	S	O
ALLOWFWDALLTOMSISDN	Allow forward all to MSISDN	N/A	N/A	S	O
ALLOWSPECCPYINGEMAIL	Allow specific copying email	N/A	N/A	S	O
ALLOWSPECFWDINGEMAIL	Allow specific forwarding email	N/A	N/A	S	O
CPYINGDOMAIN	Copying domain.Required if ALLOWSPECCPYINGEMAIL is set to false	N/A	N/A	S	O
DESCRIPTION	Description.	N/A	N/A	S	O
FWDINGDOMAIN	Forwarding domain.Required if ALLOWSPECFWDINGEMAIL is set to false	N/A	N/A	S	O
LAWFULINTERCEPTDEST	Lawful intercept destination	N/A	N/A	S	O
LAWFULINTERCEPTDOMAIN	Lawful intercept domain.Required if LAWFULINTERCEPTDEST is set to domain	N/A	N/A	S	O
MMSCHARGETYPE	Type of charge.	N/A	N/A	S	O
NE_ID_MMS	Host NE identifier.	N/A	N/A	S	R
PREPAIDCLASSOFSVC	Prepaid class of service.	N/A	N/A	S	O
SERVICENAME	The name of service.	N/A	N/A	S	R

Mapping to ASDLs

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

Table 3–31 CSDL to ASDL Mapping

CSDL	ASDL
C_ER-MMS_2-0_MOD_SVC	A_ER-MMS_2-0_MOD_SVC

C_ER-MMS_2-0_MOD_USER

Modify User.

Table 3–32 C_ER-MMS_2-0_MOD_USER

Parameter Name	Description	Range	Default Value	Type	Class
NE_ID_MMS	Host NE identifier.	N/A	N/A	S	R
PERMISSIONS	The permissions assigned to the user.	N/A	N/A	S	O
USERID	The name of the user.	N/A	N/A	S	R
USERPASSWORD	The password assigned to the user.	N/A	N/A	S	O

Mapping to ASDLs

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

Table 3–33 CSDL to ASDL Mapping

CSDL	ASDL
C_ER-MMS_2-0_MOD_USER	A_ER-MMS_2-0_MOD_USER

C_ER-MMS_2-0_QRY_BLK-COMM

List subscribers in Community.

Table 3–34 C_ER-MMS_2-0_QRY_BLK-COMM

Parameter Name	Description	Range	Default Value	Type	Class
COMMUNITYNAME	The name of the community.	N/A	N/A	S	R
NE_ID_MMS	Host NE identifier.	N/A	N/A	S	R

Mapping to ASDLs

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

Table 3–35 CSDL to ASDL Mapping

CSDL	ASDL
C_ER-MMS_2-0_QRY_BLK-COMM	A_ER-MMS_2-0_QRY_BLK-COMM

C_ER-MMS_2-0_QRY_COMM

Query Community.

Table 3–36 C_ER-MMS_2-0_QRY_COMM

Parameter Name	Description	Range	Default Value	Type	Class
NE_ID_MMS	Host NE identifier.	N/A	N/A	S	R

Mapping to ASDLs

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

Table 3–37 CSDL to ASDL Mapping

CSDL	ASDL
C_ER-MMS_2-0_QRY_COMM	A_ER-MMS_2-0_QRY_COMM

C_ER-MMS_2-0_QRY_SUB

Query Subscriber.

Table 3–38 C_ER-MMS_2-0_QRY_SUB

Parameter Name	Description	Range	Default Value	Type	Class
MSISDN	Mobile Station Integrated Services Digital Network Number. Uniquely identifies the mobile subscriber.	N/A	N/A	S	R
NE_ID_MMS	Host NE identifier.	N/A	N/A	S	R

Mapping to ASDLs

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

Table 3–39 CSDL to ASDL Mapping

CSDL	ASDL
C_ER-MMS_2-0_QRY_SUB	A_ER-MMS_2-0_QRY_SUB

C_ER-MMS_2-0_QRY_SVC

Retrieve a service data.

Table 3–40 C_ER-MMS_2-0_QRY_SVC

Parameter Name	Description	Range	Default Value	Type	Class
NE_ID_MMS	Host NE identifier.	N/A	N/A	S	R
SERVICENAME	The name of service.	N/A	N/A	S	R

Mapping to ASDLs

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

Table 3–41 CSDL to ASDL Mapping

CSDL	ASDL
C_ER-MMS_2-0_QRY_SVC	A_ER-MMS_2-0_QRY_SVC

C_ER-MMS_2-0_QRY_SVCS

Retrieve all services.

Table 3–42 C_ER-MMS_2-0_QRY_SVCS

Parameter Name	Description	Range	Default Value	Type	Class
NE_ID_MMS	Host NE identifier.	N/A	N/A	S	R

Mapping to ASDLs

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

Table 3–43 CSDL to ASDL Mapping

CSDL	ASDL
C_ER-MMS_2-0_QRY_SVCS	A_ER-MMS_2-0_QRY_SVCS

C_ER-MMS_2-0_QRY_USER

Query User.

Table 3–44 C_ER-MMS_2-0_QRY_USER

Parameter Name	Description	Range	Default Value	Type	Class
NE_ID_MMS	Host NE identifier.	N/A	N/A	S	R
USERID	The name of the user.	N/A	N/A	S	R

Mapping to ASDLs

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

Table 3–45 CSDL to ASDL Mapping

CSDL	ASDL
C_ER-MMS_2-0_QRY_USER	A_ER-MMS_2-0_QRY_USER

C_ER-MMS_2-0_QRY_USERS

List all users.

Table 3–46 C_ER-MMS_2-0_QRY_USERS

Parameter Name	Description	Range	Default Value	Type	Class
NE_ID_MMS	Host NE identifier.	N/A	N/A	S	R

Mapping to ASDLs

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

Table 3–47 CSDL to ASDL Mapping

CSDL	ASDL
C_ER-MMS_2-0_QRY_USERS	A_ER-MMS_2-0_QRY_USERS

C_ER-MMS_2-0_QRY_USERS-CR

Query Current Users.

Table 3–48 C_ER-MMS_2-0_QRY_USERS-CR

Parameter Name	Description	Range	Default Value	Type	Class
NE_ID_MMS	Host NE identifier.	N/A	N/A	S	R

Mapping to ASDLs

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

Table 3–49 CSDL to ASDL Mapping

CSDL	ASDL
C_ER-MMS_2-0_QRY_USERS-CR	A_ER-MMS_2-0_QRY_USERS-CR

4

Configuring ASAP to Support Additional NE Instances

You can configure Oracle Communications ASAP (ASAP) to support the TORONTO_MMS - NEP configuration using the Service Activation Configuration Tool (SACT). Refer to the *ASAP System Administrator's Guide* for more information.

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 file, you must create a new sar file, then restart the cartridge using the new file.

Configuration XML File

Below is an example of the Activation.Configuration.XML file for the Ericsson_MMS_20_MultiMediaMsg Cartridge cartridge.

```
<?xml version="1.0" encoding="UTF-8"?>
<activationConfig
xmlns="http://www.metasolv.com/ServiceActivation/2003/ActivationConfig"
xmlns:cfg="http://www.mslv.com/studio/activation/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="MMS_POOL">
          <device name="MMS_dev1">
               <environment>DEVELOPMENT</environment>
               <lineType>CORBA_CONNECTION</lineType>
          </device>
     </connectionPool>
     <element name="TORONTO_MMS">
          <vendor>ER</vendor>
          <technology>MMS</technology>
          <softwareLoad>2.0</softwareLoad>
```

```
                <nepServerName>NEP__MMS</nepServerName>
                <primaryPool>MMS_POOL</primaryPool>
                <maximumConnections>5</maximumConnections>
                <dropTimeout>2</dropTimeout>
                <spawnThreshold>5</spawnThreshold>
                <killThreshold>2</killThreshold>
                <routingElement name="TORONTO_MMS"/>
                <communicationParameter>
                     <label>ORBINITIALHOST</label>
                     <value>
                          <value>10.9.3.105</value>
                     </value>
                     <description>ORBInitialHost property</description>
                     <lineType>CORBA_CONNECTION</lineType>
                </communicationParameter>
                <communicationParameter>
                     <label>ORBINITIALPORT</label>
                     <value>
                          <value>22001</value>
                     </value>
                     <description>ORBInitialPort property</description>
                     <lineType>CORBA_CONNECTION</lineType>
                </communicationParameter>
                <communicationParameter>
                     <label>SOS_USER</label>
                     <value>
                          <value>Ovidiu</value>
                     </value>
                     <description>User name for login</description>
                     <lineType>CORBA_CONNECTION</lineType>
                </communicationParameter>
                <communicationParameter>
                     <label>SOS_PASSWORD</label>
                     <value>
                          <value>psswd1</value>
                     </value>
                     <description>Password for login</description>
                     <lineType>CORBA_CONNECTION</lineType>
                </communicationParameter>
                <communicationParameter>
                     <label>ERICY_MMS_LOOPBACK</label>
                     <value>
                          <value>1</value>
                     </value>
                     <description>Ericsson MMS loopback mode</description>
                     <lineType>CORBA_CONNECTION</lineType>
                </communicationParameter>
                <communicationParameter>
                     <label>IOR_INSTANCE</label>
                     <value>
                          <value>/config/Ericsson_MMS_access.ior</value>
                     </value>
                     <description>Interoperable Object Reference. This file is relative
to ASAP_BASE directory.</description>
                     <lineType>CORBA_CONNECTION</lineType>
                </communicationParameter>
           </element>
</activationConfig>
```