Oracle® Communications ASAP Cartridge Siemens NetManager 7.0 Cartridge

Siemens NetManager 7.0 Cartridge Guide

First Edition

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Oracle Communications Siemens NetManager 7.0 Cartridge Guide, First Edition

Contents

4   Configuring ASAP to Support Additional NE Instances

1

Cartridge Overview

This guide provides a detailed description of the SiemensNetManager_7-0 Cartridge 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 SiemensNetManager_7-0 Cartridge cartridge provides the ASAP service configuration and network element (NE) interface to activate subscriber services on E_SI-NETMANAGER_7-0_HOST 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.

For more information on the operating environment of this ASAP version, refer to the ASAP version 7 Release Notes.

Connecting to the NE

This cartridge supports both asynchronous and synchronous mode communications and uses CORBA connection to connect to the NE. The query service will be executed in synchronous mode communication and the remaining services will be executed in asynchronous mode communication.

Services, Features, and Options

This cartridge supports the following services:

Table 1–1   Supported Services

Service	Description
C_SI-NETMANAGER_7-0_ADD_LNP-ENTRY	Add local number portability entry on siemens HiS700 using NetManager.
C_SI-NETMANAGER_7-0_DEL_LNP-ENTRY	Delete local number portability entry from siemens HiS700 using NetManager.
C_SI-NETMANAGER_7-0_MOD_LNP-ENTRY	Modify local number portability entry Siemens HiS700 using NetManager.
C_SI-NETMANAGER_7-0_QRY_LNP-ENTRY	Queries local number portability entry on Siemens HiS700 using NetManager

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
USERNAME	USERNAME	The user name to open a session on the remote NE
NAMING_SERVICE_PORT	9000	The port number of naming service on the remote NE host
HOST_IPADDR	127.0.0.1	The host name or IP Address of the remote NE
USER_GROUP	USER_GROUP	The user group to open a session on the remote NE
PASSWORD	PASSWORD	The password to open a session on the remote NE
APPLICATION_NAME	NP	The application name identifier to open a session on the remote NE
TERMINAL	SNP	The FOS client machine to open a session on the remote NE
URL	t3://127.0.0.1:7001	The URL of the weblogic asynchornous component
REQUEST_QUEUE_NAME	netmanager_7_0_request_queue	The JMS request queue name to communicate with the asynchronous component
SRQ_SUPPORT	Yes	Enable or disable the SRQ logging.
MONITOR_INTERVAL	60	Work order monitor interval in seconds

Table 1–2   (Cont.) Communication Parameters

Parameter Label	Parameter Value	Description
CONNECTION_DELAY	5	Time in seconds to wait after registering a consumer to event channel. This is necessary for NetManger to be ready to accept requests.
TIMEOUT_ACTION	SOFT_FAIL	Action to take if a work order is not completed within the timeout period. Possible values are FAIL or SOFT_FAIL.
TIMEOUT	1	Work order timeout period in minutes
INIT_NE_RESPONSE_TIME	50	Initial wait time for NE response in milliseconds
NE_RESPONSE_TIMEOUT	30	Timeout for NE response in seocnds
THROTTLE	0	Time in milliseconds to throttle trasmission rate of multiple requests
NETMFOSIF_NAME	NetM_NP_FOS	String to look up NetMFOSIf in CORBA naming service
IDLE_TIMER_INT	2700	Inactivity time interval specified in seconds within which it would trigger the ping ASDL.
IDLE_TIMER_ASDL	A_SI-NETMANAGER_ 7-0_NETM_PING	Name of the ping ASDL

Related Documentation

This cartridge is developed according to the following NE provisioning specifications:

- syd_NP_FOS_V70.pdf

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_SI-NETMANAGER_7-0_ADD_LNP-ENTRY

■   A_SI-NETMANAGER_7-0_DEL_LNP-ENTRY

■   A_SI-NETMANAGER_7-0_DEL_LNP-ENTRY-RB

■   A_SI-NETMANAGER_7-0_INIT_ACTION

■   A_SI-NETMANAGER_7-0_MOD_LNP-ENTRY

■   A_SI-NETMANAGER_7-0_MOD_LNP-ENTRY-RB

■   A_SI-NETMANAGER_7-0_NETM_PING

■   A_SI-NETMANAGER_7-0_QRY_LNP-ENTRY

■   A_SI-NETMANAGER_7-0_RESUME_ACTION

■   A_SI-NETMANAGER_7-0_RESUME_ACTION-RB

■   A_SI-NETMANAGER_7-0_START_ACTION

■   A_SI-NETMANAGER_7-0_STOP_ACTION

■   A_SI-NETMANAGER_7-0_STOP_ACTION-RB

A_SI-NETMANAGER_7-0_ADD_LNP-ENTRY

Add local number portability entry on Siemens HiS700 using NetManager. It is implemented by the Java method **com.mslv.activation.cartridge.si.netmanager.x7_0.lnp_entry.add.generated.AddLnpEntryProxy.execute.**

Table 2–2   A_SI-NETMANAGER_7-0_ADD_LNP-ENTRY

Parameter Name	Description	Range	Default Value	Type	Class
MCLI	The network identifier	N/A	N/A	S	R
INPUT_NADI	The input nature of address indicator.	N/A	N/A	S	R
INPUT_NUMBER	The input number.	N/A	N/A	S	R

Table 2–2   (Cont.) A_SI-NETMANAGER_7-0_ADD_LNP-ENTRY

Parameter Name	Description	Range	Default Value	Type	Class
OUTPUT_NADI	The output nature of address indicator.	N/A	N/A	S	O
OUTPUT_NUMBER	The output number.	N/A	N/A	S	O
ENTRY_STATUS	Identifies the state of LNP entry.	N/A	N/A	S	R
ENTITY_NUMBER	The entity number	N/A	N/A	S	R
EXECUTION_FAILED	Cartridge internal parameter for work order forward execution status	N/A	N/A	S	O
ASDL_COUNTER	For internal use only. ASDL Counter that keeps track of the ASDL index in the CSDL.	N/A	N/A	S	O
TRANSLATOR_KEY	Identifies the translator of the current entry. If not defined it will be set to 1 since its the default value for Number Portability Service.	N/A	1	S	O
ENTRY_RESULT	Value defines the purpose of the specified translator instance. Valid values are 0 = Entry not ported or 1: = Entry ported.	N/A	N/A	S	O
ADDICIONAL_INFO_TYPE	Additional Info Type. Valid values 1 or 3.	N/A	N/A	S	O
ADDICIONAL_INFO_DIGITS	Additional Info Digits value. Valid value could be a 15 decimal digits at the maximum. (0..15)	N/A	N/A	S	O
PROFILE_KEY	Identifies the profile used by the current entry.	N/A	N/A	S	O

MML commands

MML Syntax :

Add local number portability entry on Siemens HiS700 using NetManager.

The input XML request of the service looks like

```
<?xml version="1.0" encoding="UTF-8"?>
<Job xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="NPSchemaForClientReq.xsd"
xsi:type="netmctJobExecuteEntry">
<JobType>
<OperationType>Execute</OperationType>
<NPJobType>Entry</NPJobType>
</JobType>
<JobData>
<NPJobData>
<NPManualInput xsi:type="npctNPManualInputNP">
<NPEntity>[ENTITY_NUMBER]</NPEntity>
<NPTranslatorKey>
<Id>[TRANSLATOR_KEY]</Id> (default 1, always)
</NPTranslatorKey>
<NPManualInputList>
<NPManualInputInfo xsi:type="npctNPManualInputInfoCNP">
<NPManualInputType>Create</NPManualInputType>
```

```
<NPManualInputCreate>
<NPEntryKey>
<NPInputNadi>[INPUT_NADI]</NPInputNadi>
<NPInputNumber>[INPUT_NUMBER]</NPInputNumber>
</NPEntryKey>
<NPEntryAttributes xsi:type="npctNPEntryAttributesCNPER">
<NPEntryState>[ENTRY_STATUS]</NPEntryState>
<NPEntryResult>[ENTRY_RESULT]</NPEntryResult>
<NPOutputNADI>[OUTPUT_NADI]</NPOutputNADI>
<NPOutputNumber>[OUTPUT_NUMBER]</NPOutputNumber>
</NPEntryAttributes>
(Or)
<NPEntryAttributes xsi:type="npctNPEntryAttributesCNPERAI">
<NPEntryState>[ENTRY_STATUS]</NPEntryState>
<NPEntryResult>[ENTRY_RESULT]</NPEntryResult>
<NPOutputNADI>[OUTPUT_NADI]</NPOutputNADI>
<NPOutputNumber>[OUTPUT_NUMBER]</NPOutputNumber>
<NPAddicionalInfoType>[ADDICIONAL_INFO_TYPE]</NPAddicionalInfoType>
<NPAddicionalInfoDigits>[ADDICIONAL_INFO_DIGITS]</NPAddicionalInfoDigits>
</NPEntryAttributes>
(Or)
<NPEntryAttributes xsi:type="npctNPEntryAttributesCNPP">
<NPEntryState>[ENTRY_STATUS]</NPEntryState>
<NPProfileKey>
<Id>[PROFILE_KEY]</Id>
</NPProfileKey>
</NPEntryAttributes>
</NPManualInputCreate>
</NPManualInputInfo>
</NPManualInputList>
</NPManualInput>
</NPJobData>
</JobData>
</Job>


Note:
The <OperationType>, <NPJobType>, <NPManualInputInfo> and <NPManualInputType>
values are unique to the service and it will hardcoded in the service request
itself
The EntryAttributes will be either CNPER or CNPERAI or CNPP based on the
combination in which the below parameters are defined.
(For CNPER - only ENTRY_REUSLT, ENTRY_STATUS, OUTPUT_NADI(optional) and OUTPUT_
NUMBER(optional) should be defined. (or)
        For CNPERAI -  only ENTRY_RESULT, ADDICIONAL_INFO_TYPE , ADDICIONAL_INFO_
DIGITS, ENTRY_STATUS, OUTPUT_NADI(optional), OUTPUT_NUMBER(optional) should be
defined. (or)
        For CNPP - only PROFILE_KEY and ENTRY_STATUS should be defined)
```

Output Parameters

The status of the service (SUCCEED, FAIL or SOFT_FAIL) and response message from NE are returned as CSDL and info parameters.

<RESULT> = The result of the service (SUCCEED, FAIL or SOFT_FAIL).

<TEXT> = The response text message from NE (String).

A_SI-NETMANAGER_7-0_DEL_LNP-ENTRY

Delete local number portability entry on Siemens HiS700 using NetManager. It is implemented by the Java method **com.mslv.activation.cartridge.si.netmanager.x7_0.lnp_entry.del.generated.DelLnpEntryProxy.execute.**

Table 2–3   A_SI-NETMANAGER_7-0_DEL_LNP-ENTRY

Parameter Name	Description	Range	Default Value	Type	Class
MCLI	The network identifier.	N/A	N/A	S	R
INPUT_NADI	The input nature of address indicator.	N/A	N/A	S	R
INPUT_NUMBER	The input number.	N/A	N/A	S	R
ROLLBACK_ASDLS	Cartridge internal parameter for rollback	N/A	N/A	S	O
ENTITY_NUMBER	The entity number	N/A	N/A	S	R
EXECUTION_FAILED	Cartridge internal parameter for work order forward execution status	N/A	N/A	S	O
ASDL_COUNTER	For internal use only. ASDL Counter that keeps track of the ASDL index in the CSDL.	N/A	N/A	S	O
TRANSLATOR_KEY	Identifies the translator of the current entry. If not defined it will be set to 1 since its the default value for Number Portability Service.	N/A	1	S	O

MML commands

MML Syntax :

```
Delete local number portability entry on Siemens HiS700 using NetManager.

The input XML request of the service is looks like

<?xml version="1.0" encoding="UTF-8"?>
<Job xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="NPSchemaForClientReq.xsd"
xsi:type="netmctJobExecuteEntry">
<JobType>
<OperationType>Execute</OperationType>
<NPJobType>Entry</NPJobType>
</JobType>
<JobData>
<NPJobData>
<NPManualInput xsi:type="npctNPManualInputNP">
<NPEntity>[ENTITY_NUMBER]</NPEntity>
<NPTranslatorKey>
<Id>1</Id>
</NPTranslatorKey>
<NPManualInputList>
<NPManualInputInfo xsi:type="npctNPManualInputInfoDNP">
<NPManualInputType>Delete</NPManualInputType>
<NPManualInputDelete>
<NPEntryKey>
<NPInputNadi>[INPUT_NADI]</NPInputNadi>
<NPInputNumber>[INPUT_NUMBER]</NPInputNumber>
```

```
            </NPEntryKey>
          </NPManualInputDelete>
        </NPManualInputInfo>
      </NPManualInputList>
    </NPManualInput>
  </NPJobData>
  </JobData>
</Job>

Note:
The <OperationType>, <NPJobType>, <NPManualInputInfo> and <NPManualInputType>
values are unique to the service and it will hardcoded in the service request
itself
```

Output Parameters

The status of the service (SUCCEED, FAIL or SOFT_FAIL) and response message from NE are returned as CSDL and info parameters.

<RESULT> = The result of the service (SUCCEED, FAIL or SOFT_FAIL).

<TEXT> = The response text message from NE (String).

A_SI-NETMANAGER_7-0_DEL_LNP-ENTRY-RB

Add local number portability entry using old parameters in Siemens HiS700 using NetManager. It is implemented by the Java method **com.mslv.activation.cartridge.si.netmanager.x7_0.lnp_entry_ rb.del.generated.DelLnpEntryRBProxy.execute.**

Table 2–4   A_SI-NETMANAGER_7-0_DEL_LNP-ENTRY-RB

Parameter Name	Description	Range	Default Value	Type	Class
MCLI	The network identifier	N/A	N/A	S	R
OLD_INPUT_NADI	The input nature of address indicator.	N/A	N/A	S	R
OLD_INPUT_ NUMBER	The input number.	N/A	N/A	S	R
OLD_OUTPUT_NADI	The output nature of address indicator.	N/A	N/A	S	O
OLD_OUTPUT_ NUMBER	The output number.	N/A	N/A	S	O
OLD_ENTRY_STATUS	Identifier the state of LNP entry.	N/A	N/A	S	R
ROLLBACK_ASDLS	Cartridge internal parameter for rollback	N/A	N/A	S	O
ENTITY_NUMBER	The entity number	N/A	N/A	S	R
ASDL_COUNTER	For internal use only. ASDL Counter that keeps track of the ASDL index in the CSDL.	N/A	N/A	S	O
OLD_TRANSLATOR_ KEY	Identifies the translator of the current entry. If not defined it will be set to 1 since its the default value for Number Portability Service.	N/A	1	S	O

Table 2–4   (Cont.) A_SI-NETMANAGER_7-0_DEL_LNP-ENTRY-RB

Parameter Name	Description	Range	Default Value	Type	Class
OLD_ENTRY_RESULT	Value defines the purpose of the specified translator instance. Valid values are 0 = Entry not ported or 1: = Entry ported.	N/A	N/A	S	O
OLD_ADDICIONAL_ INFO_TYPE	Additional Info Type. Valid values 1 or 3.	N/A	N/A	S	O
OLD_ADDICIONAL_ INFO_DIGITS	Additional Info Digits value. Valid value could be a 15 decimal digits at the maximum. (0..15)	N/A	N/A	S	O
OLD_PROFILE_KEY	Identifies the profile used by the current entry.	N/A	N/A	S	O

MML commands

MML Syntax :

Add local number portability entry using old parameters in Siemens HiS700 using NetManager.

     The input XML request of the service looks like

```
<?xml version="1.0" encoding="UTF-8"?>
<Job xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="NPSchemaForClientReq.xsd"
xsi:type="netmctJobExecuteEntry">
<JobType>
<OperationType>Execute</OperationType>
<NPJobType>Entry</NPJobType>
</JobType>
<JobData>
<NPJobData>
<NPManualInput xsi:type="npctNPManualInputNP">
<NPEntity>[ENTITY_NUMBER]</NPEntity>
<NPTranslatorKey>
<Id>[TRANSLATOR_KEY]</Id> (default 1, always)
</NPTranslatorKey>
<NPManualInputList>
<NPManualInputInfo xsi:type="npctNPManualInputInfoCNP">
<NPManualInputType>Create</NPManualInputType>
<NPManualInputCreate>
<NPEntryKey>
<NPInputNadi>[OLD_INPUT_NADI]</NPInputNadi>
<NPInputNumber>[OLD_INPUT_NUMBER]</NPInputNumber>
</NPEntryKey>
<NPEntryAttributes xsi:type="npctNPEntryAttributesCNPER">
<NPEntryState>[OLD_ENTRY_STATUS]</NPEntryState>
<NPEntryResult>[OLD_ENTRY_RESULT]</NPEntryResult>
<NPOutputNADI>[OLD_OUTPUT_NADI]</NPOutputNADI>
<NPOutputNumber>[OLD_OUTPUT_NUMBER]</NPOutputNumber>
</NPEntryAttributes>
(Or)
<NPEntryAttributes xsi:type="npctNPEntryAttributesCNPERAI">
<NPEntryState>[OLD_ENTRY_STATUS]</NPEntryState>
<NPEntryResult>[OLD_ENTRY_RESULT]</NPEntryResult>
```

```
<NPOutputNADI>[OLD_OUTPUT_NADI]</NPOutputNADI>
<NPOutputNumber>[OLD_OUTPUT_NUMBER]</NPOutputNumber>
<NPAddicionalInfoType>[OLD_ADDICIONAL_INFO_TYPE]</NPAddicionalInfoType>
<NPAddicionalInfoDigits>[OLD_ADDICIONAL_INFO_DIGITS]</NPAddicionalInfoDigits>
</NPEntryAttributes>
(Or)
<NPEntryAttributes xsi:type="npctNPEntryAttributesCNPP">
<NPEntryState>[OLD_ENTRY_STATUS]</NPEntryState>
<NPProfileKey>
<Id>[OLD_PROFILE_KEY]</Id>
</NPProfileKey>
</NPEntryAttributes>
</NPManualInputCreate>
</NPManualInputInfo>
</NPManualInputList>
</NPManualInput>
</NPJobData>
</JobData>
</Job>


Note:
The <OperationType>, <NPJobType>, <NPManualInputInfo> and <NPManualInputType>
values are unique to the service and it will hardcoded in the service request
itself
The EntryAttributes will be either CNPER or CNPERAI or CNPP based on the
combination in which the below parameters are defined.
(For CNPER - only OLD_ENTRY_REUSLT, OLD_ENTRY_STATUS, OLD_OUTPUT_NADI(optional)
and OLD_OUTPUT_NUMBER(optional) should be defined. (or)
        For CNPERAI -  only OLD_ENTRY_RESULT, OLD_ADDICIONAL_INFO_TYPE , OLD_
ADDICIONAL_INFO_DIGITS, OLD_ENTRY_STATUS, OLD_OUTPUT_NADI(optional), OLD_OUTPUT_
NUMBER(optional) should be defined. (or)
        For CNPP - only OLD_PROFILE_KEY and OLD_ENTRY_STATUS should be defined)
```

Output Parameters

The status of the service (SUCCEED, FAIL or SOFT_FAIL) and response message from NE are returned as CSDL and info parameters.

<RESULT> = The result of the service (SUCCEED, FAIL or SOFT_FAIL).

<TEXT> = The response text message from NE (String).

A_SI-NETMANAGER_7-0_INIT_ACTION

The purpose of this service is to enable the handling of rollback. It does not generate any mml commands to the remote NE. It is implemented by the Java method **com.mslv.activation.cartridge.si.netmanager.x7_ 0.action.init.generated.InitActionProxy.execute.**

Table 2–5   A_SI-NETMANAGER_7-0_INIT_ACTION

Parameter Name	Description	Range	Default Value	Type	Class
MCLI	The network identifier	N/A	N/A	S	R

MML commands

MML Syntax :

```
The purpose of this service is to enable handling of rollback. It does not
generate any mml commands to the remote NE.
```

Output Parameters
None

A_SI-NETMANAGER_7-0_MOD_LNP-ENTRY

Modify local number portability entry on Siemens HiS700 using NetManager. It is implemented by the Java method **com.mslv.activation.cartridge.si.netmanager.x7_0.lnp_entry.mod.generated.ModLnpEntryProxy.execute.**

Table 2–6   A_SI-NETMANAGER_7-0_MOD_LNP-ENTRY

Parameter Name	Description	Range	Default Value	Type	Class
MCLI	The network identifier	N/A	N/A	S	R
INPUT_NADI	The input nature of address indicator.	N/A	N/A	S	R
INPUT_NUMBER	The input number.	N/A	N/A	S	R
OUTPUT_NADI	The output nature of address.	N/A	N/A	S	O
OUTPUT_NUMBER	The output number.	N/A	N/A	S	O
ENTRY_STATUS	Identifies the state of LNP entry.	N/A	N/A	S	R
ENTITY_NUMBER	The entity number	N/A	N/A	S	R
EXECUTION_FAILED	Cartridge internal parameter for work order forward execution statuss	N/A	N/A	S	O
ASDL_COUNTER	For internal use only. ASDL Counter that keeps track of the ASDL index in the CSDL.	N/A	N/A	S	O
TRANSLATOR_KEY	Identifies the translator of the current entry. If not defined it will be set to 1 since its the default value for Number Portability Service.	N/A	1	S	O
ENTRY_RESULT	Value defines the purpose of the specified translator instance. Valid values are 0 = Entry not ported or 1: = Entry ported.	N/A	N/A	S	O
ADDICIONAL_INFO_ TYPE	Additional Info Type. Valid values 1 or 3.	N/A	N/A	S	O
ADDICIONAL_INFO_ DIGITS	Additional Info Digits value. Valid value could be a 15 decimal digits at the maximum. (0..15)	N/A	N/A	S	O
PROFILE_KEY	Identifies the profile used by the current entry.	N/A	N/A	S	O

MML commands

MML Syntax :

```
Modify local number portability entry on Siemens HiS700 using NetManager.
```

The input XML request of the service looks like

```
<?xml version="1.0" encoding="UTF-8"?>
<Job xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="NPSchemaForClientReq.xsd"
xsi:type="netmctJobExecuteEntry">
<JobType>
<OperationType>Execute</OperationType>
<NPJobType>Entry</NPJobType>
</JobType>
<JobData>
<NPJobData>
<NPManualInput xsi:type="npctNPManualInputNP">
<NPEntity>[ENTITY_NUMBER]</NPEntity>
<NPTranslatorKey>
<Id>[TRANSLATOR_KEY]</Id> (default 1, always)
</NPTranslatorKey>
<NPManualInputList>
<NPManualInputInfo xsi:type="npctNPManualInputInfoMNP">
<NPManualInputType>Modify</NPManualInputType>
<NPManualInputModify>
<NPEntryKey>
<NPInputNadi>[INPUT_NADI]</NPInputNadi>
<NPInputNumber>[INPUT_NUMBER]</NPInputNumber>
</NPEntryKey>
<NPEntryAttributes xsi:type="npctNPEntryAttributesMNPER">
<NPEntryState>[ENTRY_STATUS]</NPEntryState>
<NPEntryResult>[ENTRY_RESULT]</NPEntryResult>
<NPOutputNADI>[OUTPUT_NADI]</NPOutputNADI> (or) <NPOutputNADI
remove="true">15(dummy value)</NPOutputNADI>
<NPOutputNumber>[OUTPUT_NUMBER]</NPOutputNumber> (or) <NPOutputNumber
remove="true">5454(dummy value)</NPOutputNumber>
</NPEntryAttributes>
(Or)
<NPEntryAttributes xsi:type="npctNPEntryAttributesMNPERAI">
<NPEntryState>[ENTRY_STATUS]</NPEntryState>
<NPEntryResult>[ENTRY_RESULT]</NPEntryResult>
<NPOutputNADI>[OUTPUT_NADI]</NPOutputNADI> (or) <NPOutputNADI
remove="true">15(dummy value)</NPOutputNADI>
<NPOutputNumber>[OUTPUT_NUMBER]</NPOutputNumber> (or) <NPOutputNumber
remove="true">5454(dummy value)</NPOutputNumber>
<NPAddicionalInfoType>[ADDICIONAL_INFO_TYPE]</NPAddicionalInfoType> (or)
<NPAddicionalInfoType remove="true">1(dummy value)</NPAddicionalInfoType>
<NPAddicionalInfoDigits>[ADDICIONAL_INFO_DIGITS]</NPAddicionalInfoDigits> (or)
<NPAddicionalInfoDigits remove="true">15(dummy value)</NPAddicionalInfoDigits>
</NPEntryAttributes>
(Or)
<NPEntryAttributes xsi:type="npctNPEntryAttributesMNPP">
<NPEntryState>[ENTRY_STATUS]</NPEntryState>
<NPProfileKey>
<Id>[PROFILE_KEY]</Id>
</NPProfileKey>
</NPEntryAttributes>
</NPManualInputModify>
</NPManualInputInfo>
</NPManualInputList>
</NPManualInput>
</NPJobData>
</JobData>
</Job>
```

```
Note:
The <OperationType>, <NPJobType>, <NPManualInputInfo> and <NPManualInputType>
values are unique to the service and it will hardcoded in the service request
itself
The EntryAttributes will be either MNPER or MNPERAI or MNPP based on the
combination in which the below parameters are defined.
(For MNPER - only ENTRY_REUSLT, ENTRY_STATUS, OUTPUT_NADI(optional) and OUTPUT_
NUMBER(optional) should be defined. (or)
        For MNPERAI -  only ENTRY_RESULT, ADDICIONAL_INFO_TYPE , ADDICIONAL_INFO_
DIGITS, ENTRY_STATUS, OUTPUT_NADI(optional), OUTPUT_NUMBER(optional) should be
defined. (or)
        For MNPP - only PROFILE_KEY and ENTRY_STATUS should be defined)
The dummy values will be set to OUTPUT_NADI, OUTPUT_NUMBER, ADDICIONAL_INFO_TYPE
and ADDICIONAL_INFO_DIGITS as described in the above xml snippet,
only when the value passed for these parameters is true/True.
```

Output Parameters

The status of the service (SUCCEED, FAIL or SOFT_FAIL) and response message from NE are returned as CSDL and info parameters.

<RESULT> = The result of the service (SUCCEED, FAIL or SOFT_FAIL).

<TEXT> = The response text message from NE (String).

A_SI-NETMANAGER_7-0_MOD_LNP-ENTRY-RB

Modifes local number portability entry using old parameters in Siemens HiS700 using NetManager. It is implemented by the Java method **com.mslv.activation.cartridge.si.netmanager.x7_0.lnp_entry_ rb.mod.generated.ModLnpEntryRBProxy.execute.**

Table 2–7   A_SI-NETMANAGER_7-0_MOD_LNP-ENTRY-RB

Parameter Name	Description	Range	Default Value	Type	Class
MCLI	The network identifier	N/A	N/A	S	R
OLD_INPUT_NADI	The input nature of address indicator.	N/A	N/A	S	R
OLD_INPUT_ NUMBER	The input number.	N/A	N/A	S	R
OLD_OUTPUT_NADI	The output nature of address indicator.	N/A	N/A	S	O
OLD_OUTPUT_ NUMBER	The output number.	N/A	N/A	S	O
OLD_ENTRY_STATUS	Identifer the state of LNP entry.	N/A	N/A	S	R
ROLLBACK_ASDLS	Cartridge internal parameter for rollback	N/A	N/A	S	O
ENTITY_NUMBER	The entity number	N/A	N/A	S	O
ASDL_COUNTER	For internal use only. ASDL Counter that keeps track of the ASDL index in the CSDL.	N/A	N/A	S	O

Table 2–7 (Cont.) A_SI-NETMANAGER_7-0_MOD_LNP-ENTRY-RB

Parameter Name	Description	Range	Default Value	Type	Class
OLD_TRANSLATOR_ KEY	Identifies the translator of the current entry. If not defined it will be set to 1 since its the default value for Number Portability Service.	N/A	1	S	O
OLD_ENTRY_RESULT	Value defines the purpose of the specified translator instance. Valid values are 0 = Entry not ported or 1: = Entry ported.	N/A	N/A	S	O
OLD_ADDICIONAL_ INFO_TYPE	Additional Info Type. Valid values 1 or 3.	N/A	N/A	S	O
OLD_ADDICIONAL_ INFO_DIGITS	Additional Info Digits value. Valid value could be a 15 decimal digits at the maximum. (0..15)	N/A	N/A	S	O
OLD_PROFILE_KEY	Identifies the profile used by the current entry.	N/A	N/A	S	O

MML commands

MML Syntax :

Modifes local number portability entry using old parameters in Siemens HiS700 using NetManager

The input XML request of the service looks like

```
<?xml version="1.0" encoding="UTF-8"?>
<Job xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="NPSchemaForClientReq.xsd"
xsi:type="netmctJobExecuteEntry">
<JobType>
<OperationType>Execute</OperationType>
<NPJobType>Entry</NPJobType>
</JobType>
<JobData>
<NPJobData>
<NPManualInput xsi:type="npctNPManualInputNP">
<NPEntity>[ENTITY_NUMBER]</NPEntity>
<NPTranslatorKey>
<Id>[TRANSLATOR_KEY]</Id> (default 1, always)
</NPTranslatorKey>
<NPManualInputList>
<NPManualInputInfo xsi:type="npctNPManualInputInfoMNP">
<NPManualInputType>Modify</NPManualInputType>
<NPManualInputModify>
<NPEntryKey>
<NPInputNadi>[OLD_INPUT_NADI]</NPInputNadi>
<NPInputNumber>[OLD_INPUT_NUMBER]</NPInputNumber>
</NPEntryKey>
<NPEntryAttributes xsi:type="npctNPEntryAttributesMNPER">
<NPEntryState>[OLD_ENTRY_STATUS]</NPEntryState>
<NPEntryResult>[OLD_ENTRY_RESULT]</NPEntryResult>
<NPOutputNADI>[OLD_OUTPUT_NADI]</NPOutputNADI> (or) <NPOutputNADI
remove="true">15(dummy value)</NPOutputNADI>
<NPOutputNumber>[OLD_OUTPUT_NUMBER]</NPOutputNumber> (or) <NPOutputNumber
```

```
remove="true">5454(dummy value)</NPOutputNumber>
</NPEntryAttributes>
(Or)
<NPEntryAttributes xsi:type="npctNPEntryAttributesMNPERAI">
<NPEntryState>[OLD_ENTRY_STATUS]</NPEntryState>
<NPEntryResult>[OLD_ENTRY_RESULT]</NPEntryResult>
<NPOutputNADI>[OLD_OUTPUT_NADI]</NPOutputNADI> (or) <NPOutputNADI
remove="true">15(dummy value)</NPOutputNADI>
<NPOutputNumber>[OLD_OUTPUT_NUMBER]</NPOutputNumber> (or) <NPOutputNumber
remove="true">5454(dummy value)</NPOutputNumber>
<NPAddicionalInfoType>[OLD_ADDICIONAL_INFO_TYPE]</NPAddicionalInfoType> (or)
<NPAddicionalInfoType remove="true">1(dummy value)</NPAddicionalInfoType>
<NPAddicionalInfoDigits>[OLD_ADDICIONAL_INFO_DIGITS]</NPAddicionalInfoDigits> (or)
<NPAddicionalInfoDigits remove="true">15(dummy value)</NPAddicionalInfoDigits>
</NPEntryAttributes>
(Or)
<NPEntryAttributes xsi:type="npctNPEntryAttributesMNPP">
<NPEntryState>[OLD_ENTRY_STATUS]</NPEntryState>
<NPProfileKey>
<Id>[OLD_PROFILE_KEY]</Id>
</NPProfileKey>
</NPEntryAttributes>
</NPManualInputModify>
</NPManualInputInfo>
</NPManualInputList>
</NPManualInput>
</NPJobData>
</JobData>
</Job>


Note:
The <OperationType>, <NPJobType>, <NPManualInputInfo> and <NPManualInputType>
values are unique to the service and it will hardcoded in the service request
itself
The EntryAttributes will be either MNPER or MNPERAI or MNPP based on the
combination in which the below parameters are defined.
(For MNPER - only OLD_ENTRY_REUSLT, OLD_ENTRY_STATUS, OLD_OUTPUT_NADI(optional)
and OLD_OUTPUT_NUMBER(optional) should be defined. (or)
        For MNPERAI -  only OLD_ENTRY_RESULT, OLD_ADDICIONAL_INFO_TYPE , OLD_
ADDICIONAL_INFO_DIGITS, OLD_ENTRY_STATUS, OLD_OUTPUT_NADI(optional), OLD_OUTPUT_
NUMBER(optional) should be defined. (or)
        For MNPP - only OLD_PROFILE_KEY and OLD_ENTRY_STATUS should be defined)
The dummy values will be set to OLD_OUTPUT_NADI, OLD_OUTPUT_NUMBER, OLD_
ADDICIONAL_INFO_TYPE and OLD_ADDICIONAL_INFO_DIGITS as described in the above xml
snippet,
only when the value passed for these parameters is true/True.
```

Output Parameters

The status of the service (SUCCEED, FAIL or SOFT_FAIL) and response message from NE are returned as CSDL and info parameters.

<RESULT> = The result of the service (SUCCEED, FAIL or SOFT_FAIL).

<TEXT> = The response text message from NE (String).

A_SI-NETMANAGER_7-0_NETM_PING

Idle timer Ping ASDL. It is implemented by the Java method
**com.mslv.activation.cartridge.si.netmanager.x7_
0.ping.netm.generated.NetmPingProxy.execute.**

Table 2–8   A_SI-NETMANAGER_7-0_NETM_PING

Parameter Name	Description	Range	Default Value	Type	Class
MCLI	The network identifier	N/A	N/A	S	R
INPUT_NADI	The input nature of address indicator.	N/A	3	S	R
INPUT_NUMBER	The input number.	N/A	9999999 99	S	R
OUTPUT_NADI	The output nature of address indicator.	N/A	3	S	O
OUTPUT_NUMBER	The output number.	N/A	9999999 99	S	O
ENTRY_STATUS	Identifies the state of LNP entry.	N/A	Active	S	R
ENTITY_NUMBER	The entity number	N/A	3	S	R
TRANSLATOR_KEY	Identifies the translator of the current entry. If not defined it will be set to 1 since its the default value for Number Portability Service.	N/A	1	S	O
ENTRY_RESULT	Value defines the purpose of the specified translator instance. Valid values are 0 = Entry not ported or 1: = Entry ported.	N/A	1	S	O

MML commands

MML Syntax :

```
Ping ASDL call to be made from the IDLE timer setting.
The ping ASDL would call the dummy Add local number portability entry service on
Siemens HiS700 using NetManager.
This will ignore the Asynchronous channel response on the same. whether is
Success/Failure.
The parameter values are defaulted in the service model itself, it has to be
updated accordingly if needed.

The input XML request of the service looks like

<?xml version="1.0" encoding="UTF-8"?>
<Job xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="NPSchemaForClientReq.xsd"
xsi:type="netmctJobExecuteEntry">
<JobType>
<OperationType>Execute</OperationType>
<NPJobType>Entry</NPJobType>
</JobType>
<JobData>
<NPJobData>
<NPManualInput xsi:type="npctNPManualInputNP">
<NPEntity>[ENTITY_NUMBER]</NPEntity> (defaulted to 3)
<NPTranslatorKey>
```

```
<Id>[TRANSLATOR_KEY]</Id> (default 1, always)
</NPTranslatorKey>
<NPManualInputList>
<NPManualInputInfo xsi:type="npctNPManualInputInfoCNP">
<NPManualInputType>Create</NPManualInputType>
<NPManualInputCreate>
<NPEntryKey>
<NPInputNadi>[INPUT_NADI]</NPInputNadi> (defaulted to 3)
<NPInputNumber>[INPUT_NUMBER]</NPInputNumber> (defaulted to 999999999)
</NPEntryKey>
<NPEntryAttributes xsi:type="npctNPEntryAttributesCNPER">
<NPEntryState>[ENTRY_STATUS]</NPEntryState> (defaulted to Active)
<NPEntryResult>[ENTRY_RESULT]</NPEntryResult> (defaulted to 1)
<NPOutputNADI>[OUTPUT_NADI]</NPOutputNADI> (defaulted to 3)
<NPOutputNumber>[OUTPUT_NUMBER]</NPOutputNumber> (defaulted to 999999999)
</NPEntryAttributes>
</NPManualInputCreate>
</NPManualInputInfo>
</NPManualInputList>
</NPManualInput>
</NPJobData>
</JobData>
</Job>
```

Output Parameters

The status of the service (SUCCEED, FAIL or SOFT_FAIL) and response message from NE are returned as CSDL and info parameters.

<RESULT> = The result of the service (SUCCEED, FAIL or SOFT_FAIL).

<TEXT> = The response text message from NE (String).

A_SI-NETMANAGER_7-0_QRY_LNP-ENTRY

Queries local number portability entry on Siemens HiS700 using NetManager. It is implemented by the Java method **com.mslv.activation.cartridge.si.netmanager.x7_0.lnp_entry.qry.generated.QryLnpEntryProxy.execute.**

Table 2–9   A_SI-NETMANAGER_7-0_QRY_LNP-ENTRY

Parameter Name	Description	Range	Default Value	Type	Class
MCLI	The network identifier	N/A	N/A	S	R
INPUT_NADI	The input nature of address indicator.	N/A	N/A	S	R
INPUT_NUMBER	The input number.	N/A	N/A	S	R
ENTITY_NUMBER	The entity number	N/A	N/A	S	R
ASDL_COUNTER	For internal use only. ASDL Counter that keeps track of the ASDL index in the CSDL.	N/A	N/A	S	O
TRANSLATOR_KEY	Identifies the translator of the current entry. If not defined it will be set to 1 since its the default value for Number Portability Service.	N/A	1	S	O

MML commands

MML Syntax :

The service will return the information about the attributes of a NP entry by giving respective key values.

The input XML request of the service is looks like

```
<Job xsi:type="netmctJobDisplayEntry" NPBufferingStateIndication="true">
<JobType>
<OperationType>Display</OperationType>
<NPJobType>Entry</NPJobType>
</JobType>
<JobData>
<NPJobData>
<NPEntryDisplay xsi:type="npctNPEntryDisplayNP">
<NPEntity>[ENTITY_NUMBER]</NPEntity>
<NPTranslatorKey>
<Id>998998</Id>
</NPTranslatorKey>
<NPEntryDisplayList>
<NPEntryKey>
<NPinputNadi>[INPUT_NADI]</NPinputNadi>
<NPinputNumber>[INPUT_NUMBER]</NPinputNumber>
</NPEntryKey>
</NPEntryDisplayList>
<NPEntryDisplay>
</NPJobData>
</JobData>
</Job>

Note:
The <OperationType>, <NPJobType>, <NPManualInputInfo> and <NPManualInputType>
values are unique to the service and it will hardcoded in the service request
itself
```

Output Parameters

The status of the service (SUCCEED, FAIL or SOFT_FAIL) and response message from NE are returned as CSDL and info parameters.

<RESULT> = The result of the service (SUCCEED, FAIL or SOFT_FAIL).

<TEXT> = The response text message from NE (String).

For successful execution, the following list of parameters are also returned as CSDL parameters (whichever is returned by NE)

<OLD_INPUT_NADI> = Input nature of address indicator.

<OLD_INPUT_NUMBER>= Input number.

<OLD_OUTPUT_NADI> = Output nature of addres indicator.

<OLD_OUTPUT_NUMBER> = Output number.

<OLD_ENTRY_STATUS> = Identifies the status of the LNP entry.

<OLD_IMSI> = IMSI value.

<OLD_DATE> = The date. (Format will be YYYY-DD-MM)

A_SI-NETMANAGER_7-0_RESUME_ACTION

This service is used to resume work orderby the listener thread and also used to check and interpret the responses of all the ASDL that are fired off from the CSDL and to trigger rollback upon failure. It is implemented by the Java method **com.mslv.activation.cartridge.si.netmanager.x7_ 0.action.resume.generated.ResumeActionProxy.execute.**

Table 2–10   A_SI-NETMANAGER_7-0_RESUME_ACTION

Parameter Name	Description	Range	Default Value	Type	Class
MCLI	The network identifier	N/A	N/A	S	R
ASDL_COUNTER	For internal use only. ASDL Counter that keeps track of the ASDL index in the CSDL.	N/A	N/A	S	O

MML commands

MML Syntax :

```
This service is used to resume work order by the listener thread and also used to
check and interpret the responses of all the ASDL that are fired off from the CSDL
and to trigger rollback upon failure
```

Output Parameters

The following parameter will be returned for successful work orders.

<ROLLBACK_ASDLS>- The ASDL_UNID of the workorder.

A_SI-NETMANAGER_7-0_RESUME_ACTION-RB

This service is used resume work order by the listener thread for rollback service. It is implemented by the Java method **com.mslv.activation.cartridge.si.netmanager.x7_ 0.action_rb.resume.generated.ResumeActionRBProxy.execute.**

Table 2–11   A_SI-NETMANAGER_7-0_RESUME_ACTION-RB

Parameter Name	Description	Range	Default Value	Type	Class
ASDL_COUNTER	For internal use only. ASDL Counter that keeps track of the ASDL index in the CSDL.	N/A	N/A	S	O
MCLI	The network identifier	N/A	N/A	S	R

MML commands

MML Syntax :

This service is used resume work order by the listener thread for rollback
service.

Output Parameters

None

A_SI-NETMANAGER_7-0_START_ACTION

The purpose of this service is to enable handling of rollback. It does not generate any
mml commands to the remote NE. It is implemented by the Java method
**com.mslv.activation.cartridge.si.netmanager.x7_
0.action.start.generated.StartActionProxy.execute.**

Table 2–12   A_SI-NETMANAGER_7-0_START_ACTION

Parameter Name	Description	Range	Default Value	Type	Class
MCLI	The network identifier	N/A	N/A	S	R

MML commands

MML Syntax :

he purpose of this service is to enable the handling of rollback. It does not
generate any mml commands to the remote NE.

Output Parameters

None

A_SI-NETMANAGER_7-0_STOP_ACTION

This service is used to stop the work order and wait for listener thread to resume the
work order. It is implemented by the Java method
**com.mslv.activation.cartridge.si.netmanager.x7_
0.action.stop.generated.StopActionProxy.execute.**

Table 2–13   A_SI-NETMANAGER_7-0_STOP_ACTION

Parameter Name	Description	Range	Default Value	Type	Class
MCLI	The network identifier.	N/A	N/A	S	R
ASDL_COUNTER	For internal use only. ASDL Counter that keeps track of the ASDL index in the CSDL.	N/A	N/A	S	O

MML commands

MML Syntax :

This service is used to stop the work order and wait for listener thread to resume
the work order.

Output Parameters

None

A_SI-NETMANAGER_7-0_STOP_ACTION-RB

This service is used to stop the work order in rollback mode and wait for listener thread to resume the work order. It is implemented by the Java method **com.mslv.activation.cartridge.si.netmanager.x7_0.action_ rb.stop.generated.StopActionRBProxy.execute.**

Table 2–14   A_SI-NETMANAGER_7-0_STOP_ACTION-RB

Parameter Name	Description	Range	Default Value	Type	Class
MCLI	The network identifier	N/A	N/A	S	R
ASDL_COUNTER	For internal use only. ASDL Counter that keeps track of the ASDL index in the CSDL.	N/A	N/A	S	O
ROLLBACK_ASDLS	Cartridge internal parameter for rollback	N/A	N/A	S	O

MML commands

MML Syntax :

```
This service is used to stop the work order in rollback mode and wait for listener
thread to resume the work order
```

Output Parameters

None

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 2–15   User Defined ASDL Exit Types

Search Pattern	User Type	Base Type	Description
1011	SI_NETM_INVAL_PARAM	SOFT_FAIL	Invalid parameters during CORBA data structure.
1012	SI_NETM_INTER_FOS_ER	SOFT_FAIL	Internal CORBA error
1021	SI_NETM_INVL_SESS_ID	SOFT_FAIL	Invalid session ID
1022	SI_NETM_SESS_EXPIRED	SOFT_FAIL	The session has expired.
1031	SI_NETM_INVAL_USER	SOFT_FAIL	Invalid login - user or password
1034	SI_NETM_NOT_NETM_USR	SOFT_FAIL	User is not associated with NetM application.
-1	SI_NETM_FAIL	SOFT_FAIL	Service failed.
SUCCEED	SI_NETM_SUCCEED	SUCCEED	Successful completion
FAIL	SI_NETM_ACTION_FAIL	SOFT_FAIL	The execution is failed
Duplicated managed object instance	SI_NETM_DUPLI_OBJ	SOFT_FAIL	Duplicated manager object instance

Table 2–15   (Cont.) User Defined ASDL Exit Types

Search Pattern	User Type	Base Type	Description
Invalid attribute value	SI_NETM_INVAL_ATTR	SOFT_FAIL	Invalid attribute value
Invalid object instance	SI_NETM_INVAL_OBJECT	SOFT_FAIL	Invalid object instance
Invalid operation	SI_NETM_INVAL_OPER	SOFT_FAIL	Invalid operation
No such attribute	SI_NETM_NO_ATTRIBUTE	SOFT_FAIL	No such attribute
No such object instance	SI_NETM_NO_OBJECT	SOFT_FAIL	No such object instance.
success	SI_NETM_SUCCESS	SUCCEED	The operaiton is success in the NP DB level
Another Database Migration is currently in operation	SI_NETM_DBASE_MIGRAT	SOFT_FAIL	Another database migration is currently in operation.
Connection to Network Element not successfull	SI_NETM_CONN_NE_FAIL	SOFT_FAIL	Connection to network element not successful
Error accessing.*database	SI_NETM_DBASE_FAIL	SOFT_FAIL	Error in accessing the NP application database, NP application server database, application database.
Error deleting Network Element data from database	SI_NETM_ERR_DEL_DATA	SOFT_FAIL	Error in deleting network element data from the database.
Error deleting NP entries for Network Element	SI_NETM_ERR_NP_ENTRY	SOFT_FAIL	Error in deleting NP entries for network element.
Error exporting NP entries table	SI_NETM_ERR_EXP_ENTY	SOFT_FAIL	Error in exporting NP entries table.
((?s).)*ProvCartridgeException((?s).)*	SI_NETM_PROV_EXCEPT	SOFT_FAIL	Cartridge provisioning exception.
((?s).)*Exception((?s).)*	SI_NETM_JAVA_EXCEPT	SOFT_FAIL	General java exception
JavaLangException:	SI_NETM_LANG_EXCEPT	SOFT_FAIL	Java lang exception
NO_MATCH_FOUND	SI_NETM_NO_MAT_FOUND	SOFT_FAIL	No specific information on error. Check log files.
No record found	SI_NETM_QRY_NO_EXIST	SOFT_FAIL	Object does not exist.
((?s).)*ConnectionException((?s).)*	SI_NETM_CONN_EXCEPT	RETRY_DIS	Failed to communicate with NE.
((?s).)*ConnectionException((?s).)*	SI_NETM_CONN_EXCEPT	RETRY_DIS	Failed to communicate with NE.
((?s).)*ConnectionException((?s).)*	SI_NETM_CONN_EXCEPT	RETRY_DIS	Failed to communicate with NE.
((?s).)*ConnectionException((?s).)*	SI_NETM_CONN_EXCEPT	RETRY_DIS	Failed to communicate with NE.
((?s).)*ConnectionException((?s).)*	SI_NETM_CONN_EXCEPT	RETRY_DIS	Failed to communicate with NE.
((?s).)*ConnectionException((?s).)*	SI_NETM_CONN_EXCEPT	RETRY_DIS	Failed to communicate with NE.
((?s).)*ProvCartridgeException((?s).)*	SI_NETM_PROV_EXCEPT	RETRY_DIS	Cartridge provisioning exception.
((?s).)*Exception((?s).)*	SI_NETM_JAVA_EXCEPT	RETRY_DIS	Cartridge general exception.

Table 2–15   (Cont.) User Defined ASDL Exit Types

Search Pattern	User Type	Base Type	Description
((?s).)*request dropped due to too many queued requests((?s).)*	SI_NETM_TOO_MANY_REQ	RETRY	The request dropped due to too many queued requests.
1032	SI_NETM_INVL_USERGRP	SOFT_FAIL	Invalid usergroup.
1033	SI_NETM_INVL_USERGRP	SOFT_FAIL	Invalid user or usergroup.
1035	SI_NETM_INVL_USERGRP	SOFT_FAIL	Usergroup has no access to the entity.
1036	SI_NETM_INVL_USERGRP	SOFT_FAIL	Usergroup has no access to application.

UserExitType.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<serviceModel xmlns="http://www.metasolv.com/ServiceActivation/2003/ServiceModel">
      <userDefinedExitType>
            <neDescriptor>
                  <softwareLoad>7-0<//softwareLoad>
                  <technology>NETMANAGER<//technology>
                  <neVendor>SI<//neVendor>
            <//neDescriptor>
            <searchPattern>1011<//searchPattern>
            <userType>SI_NETM_INVAL_PARAM<//userType>
            <baseType>SOFT_FAIL<//baseType>
            <description>Invalid parameters during CORBA data
structure.<//description>
      <//userDefinedExitType>
      ....................
      <//serviceModel >
```

3

Service Definition

The SiemensNetManager_7-0 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_SI-NETMANAGER_7-0_ADD_LNP-ENTRY

■ C_SI-NETMANAGER_7-0_DEL_LNP-ENTRY

■ C_SI-NETMANAGER_7-0_MOD_LNP-ENTRY

■ C_SI-NETMANAGER_7-0_QRY_LNP-ENTRY

C_SI-NETMANAGER_7-0_ADD_LNP-ENTRY

Add local number portability entry on siemens HiS700 using NetManager.

Table 3–2   C_SI-NETMANAGER_7-0_ADD_LNP-ENTRY

Parameter Name	Description	Range	Default Value	Type	Class
ADDICIONAL_INFO_DIGITS	Additional Info Digits value. Valid value could be a 15 decimal digits at the maximum. (0..15)	N/A	N/A	S	O
ADDICIONAL_INFO_TYPE	Additional Info Type. Valid values 1 or 3.	N/A	N/A	S	O
ASDL_COUNTER	For internal use only. ASDL Counter that keeps track of the ASDL index in the CSDL.	N/A	N/A	S	O
ASDL_COUNTER	For internal use only. ASDL Counter that keeps track of the ASDL index in the CSDL.	N/A	N/A	S	O
ENTITY_NUMBER	The entity number	N/A	N/A	S	R
ENTRY_RESULT	Value defines the purpose of the specified translator instance. Valid values are 0 = Entry not ported or 1: = Entry ported.	N/A	N/A	S	O
ENTRY_STATUS	Identifies the state of LNP entry.	N/A	N/A	S	R
EXECUTION_FAILED	Cartridge internal parameter for work order forward execution status	N/A	N/A	S	O

Table 3–2   (Cont.) C_SI-NETMANAGER_7-0_ADD_LNP-ENTRY

Parameter Name	Description	Range	Default Value	Type	Class
INPUT_NADI	The input nature of address indicator.	N/A	N/A	S	R
INPUT_NUMBER	The input number.	N/A	N/A	S	R
NE_ID_SI-NETMANAGER	The network identifier	N/A	N/A	S	R
NE_ID_SI-NETMANAGER	The network identifier	N/A	N/A	S	R
OUTPUT_NADI	The output nature of address indicator.	N/A	N/A	S	O
OUTPUT_NUMBER	The output number.	N/A	N/A	S	O
PROFILE_KEY	Identifies the profile used by the current entry.	N/A	N/A	S	O
TRANSLATOR_KEY	Identifies the translator of the current entry. If not defined it will be set to 1 since its the default value for Number Portability Service.	N/A	1	S	O

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_SI-NETMANAGER_7-0_ADD_LNP-ENTRY	A_SI-NETMANAGER_7-0_INIT_ACTION
C_SI-NETMANAGER_7-0_ADD_LNP-ENTRY	A_SI-NETMANAGER_7-0_START_ACTION
C_SI-NETMANAGER_7-0_ADD_LNP-ENTRY	A_SI-NETMANAGER_7-0_ADD_LNP-ENTRY
C_SI-NETMANAGER_7-0_ADD_LNP-ENTRY	A_SI-NETMANAGER_7-0_STOP_ACTION
C_SI-NETMANAGER_7-0_ADD_LNP-ENTRY	A_SI-NETMANAGER_7-0_RESUME_ACTION

C_SI-NETMANAGER_7-0_DEL_LNP-ENTRY

Delete local number portability entry from siemens HiS700 using NetManager.

Table 3–4   C_SI-NETMANAGER_7-0_DEL_LNP-ENTRY

Parameter Name	Description	Range	Default Value	Type	Class
ASDL_COUNTER	For internal use only. ASDL Counter that keeps track of the ASDL index in the CSDL.	N/A	N/A	S	O
ASDL_COUNTER	For internal use only. ASDL Counter that keeps track of the ASDL index in the CSDL.	N/A	N/A	S	O
ENTITY_NUMBER	The entity number	N/A	N/A	S	R
EXECUTION_FAILED	Cartridge internal parameter for work order forward execution status	N/A	N/A	S	O
INPUT_NADI	The input nature of address indicator.	N/A	N/A	S	R
INPUT_NUMBER	The input number.	N/A	N/A	S	R

Table 3–4 (Cont.) C_SI-NETMANAGER_7-0_DEL_LNP-ENTRY

Parameter Name	Description	Range	Default Value	Type	Class
NE_ID_ SI-NETMANAGER	The network identifier	N/A	N/A	S	R
NE_ID_ SI-NETMANAGER	The network identifier	N/A	N/A	S	R
ROLLBACK_ASDLS	Cartridge internal parameter for rollback	N/A	N/A	S	O
TRANSLATOR_KEY	Identifies the translator of the current entry. If not defined it will be set to 1 since its the default value for Number Portability Service.	N/A	1	S	O

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_SI-NETMANAGER_7-0_DEL_LNP-ENTRY	A_SI-NETMANAGER_7-0_INIT_ACTION
C_SI-NETMANAGER_7-0_DEL_LNP-ENTRY	A_SI-NETMANAGER_7-0_START_ACTION
C_SI-NETMANAGER_7-0_DEL_LNP-ENTRY	A_SI-NETMANAGER_7-0_DEL_LNP-ENTRY
C_SI-NETMANAGER_7-0_DEL_LNP-ENTRY	A_SI-NETMANAGER_7-0_STOP_ACTION
C_SI-NETMANAGER_7-0_DEL_LNP-ENTRY	A_SI-NETMANAGER_7-0_RESUME_ACTION

C_SI-NETMANAGER_7-0_MOD_LNP-ENTRY

Modify local number portability entry Siemens HiS700 using NetManager.

Table 3–6 C_SI-NETMANAGER_7-0_MOD_LNP-ENTRY

Parameter Name	Description	Range	Default Value	Type	Class
ADDICIONAL_INFO_ DIGITS	Additional Info Digits value. Valid value could be a 15 decimal digits at the maximum. (0..15)	N/A	N/A	S	O
ADDICIONAL_INFO_ TYPE	Additional Info Type. Valid values 1 or 3.	N/A	N/A	S	O
ASDL_COUNTER	For internal use only. ASDL Counter that keeps track of the ASDL index in the CSDL.	N/A	N/A	S	O
ASDL_COUNTER	For internal use only. ASDL Counter that keeps track of the ASDL index in the CSDL.	N/A	N/A	S	O
ENTITY_NUMBER	The entity number	N/A	N/A	S	R
ENTRY_RESULT	Value defines the purpose of the specified translator instance. Valid values are 0 = Entry not ported or 1: = Entry ported.	N/A	N/A	S	O
ENTRY_STATUS	Identifies the state of LNP entry.	N/A	N/A	S	R

Table 3–6   (Cont.) C_SI-NETMANAGER_7-0_MOD_LNP-ENTRY

Parameter Name	Description	Range	Default Value	Type	Class
EXECUTION_FAILED	Cartridge internal parameter for work order forward execution statuss	N/A	N/A	S	O
INPUT_NADI	The input nature of address indicator.	N/A	N/A	S	R
INPUT_NUMBER	The input number.	N/A	N/A	S	R
NE_ID_ SI-NETMANAGER	The network identifier	N/A	N/A	S	R
NE_ID_ SI-NETMANAGER	The network identifier	N/A	N/A	S	R
OUTPUT_NADI	The output nature of address.	N/A	N/A	S	O
OUTPUT_NUMBER	The output number.	N/A	N/A	S	O
PROFILE_KEY	Identifies the profile used by the current entry.	N/A	N/A	S	O
TRANSLATOR_KEY	Identifies the translator of the current entry. If not defined it will be set to 1 since its the default value for Number Portability Service.	N/A	1	S	O

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_SI-NETMANAGER_7-0_MOD_LNP-ENTRY	A_SI-NETMANAGER_7-0_INIT_ACTION
C_SI-NETMANAGER_7-0_MOD_LNP-ENTRY	A_SI-NETMANAGER_7-0_START_ACTION
C_SI-NETMANAGER_7-0_MOD_LNP-ENTRY	A_SI-NETMANAGER_7-0_MOD_LNP-ENTRY
C_SI-NETMANAGER_7-0_MOD_LNP-ENTRY	A_SI-NETMANAGER_7-0_STOP_ACTION
C_SI-NETMANAGER_7-0_MOD_LNP-ENTRY	A_SI-NETMANAGER_7-0_RESUME_ACTION

C_SI-NETMANAGER_7-0_QRY_LNP-ENTRY

Queries local number portability entry on Siemens HiS700 using NetManager.

Table 3–8   C_SI-NETMANAGER_7-0_QRY_LNP-ENTRY

Parameter Name	Description	Range	Default Value	Type	Class
ASDL_COUNTER	For internal use only. ASDL Counter that keeps track of the ASDL index in the CSDL.	N/A	N/A	S	O
ENTITY_NUMBER	The entity number	N/A	N/A	S	R
INPUT_NADI	The input nature of address indicator.	N/A	N/A	S	R

Table 3–8 (Cont.) C_SI-NETMANAGER_7-0_QRY_LNP-ENTRY

Parameter Name	Description	Range	Default Value	Type	Class
INPUT_NUMBER	The input number.	N/A	N/A	S	R
NE_ID_ SI-NETMANAGER	The network identifier	N/A	N/A	S	R
TRANSLATOR_KEY	Identifies the translator of the current entry. If not defined it will be set to 1 since its the default value for Number Portability Service.	N/A	1	S	O

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_SI-NETMANAGER_7-0_QRY_LNP-ENTRY	A_SI-NETMANAGER_7-0_QRY_LNP-ENTRY

4

Configuring ASAP to Support Additional NE Instances

You can configure Oracle Communications ASAP (ASAP) to support the E_
SI-NETMANAGER_7-0_HOST - 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
SiemensNetManager_7-0 Cartridge 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/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="SINETMPL">
        <device name="E_SI-NETMANAGER_7-0_HOST_conn_1">
            <environment/>
            <lineType>CORBA_CONNECTION</lineType>
        </device>
    </connectionPool>
    <element name="E_SI-NETMANAGER_7-0_HOST">
        <vendor>SI</vendor>
```

```
                        <technology>NETMANAGER</technology>
                        <softwareLoad>7-0</softwareLoad>
                        <nepServerName>$NEP</nepServerName>
                        <primaryPool>SINETMPL</primaryPool>
                        <maximumConnections>5</maximumConnections>
                        <dropTimeout>0</dropTimeout>
                        <spawnThreshold>6</spawnThreshold>
                        <killThreshold>3</killThreshold>
                        <routingElement name="E_SI-NETMANAGER_7-0_HOST">
                              <description>Remote Element name.</description>
                        </routingElement>
                        <communicationParameter>
                              <label>USERNAME</label>
                              <value>
                                    <value>USERNAME</value>
                              </value>
                              <description>The user name to open a session on the remote
NE</description>
                              <lineType>CORBA_CONNECTION</lineType>
                        </communicationParameter>
                        <communicationParameter>
                              <label>NAMING_SERVICE_PORT</label>
                              <value>
                                    <value>9000</value>
                              </value>
                              <description>The port number of naming service on the remote NE
host</description>
                              <lineType>CORBA_CONNECTION</lineType>
                        </communicationParameter>
                        <communicationParameter>
                              <label>HOST_IPADDR</label>
                              <value>
                                    <value>127.0.0.1</value>
                              </value>
                              <description>The host name or IP Address of the remote
NE</description>
                              <lineType>CORBA_CONNECTION</lineType>
                        </communicationParameter>
                        <communicationParameter>
                              <label>USER_GROUP</label>
                              <value>
                                    <value>USER_GROUP</value>
                              </value>
                              <description>The user group to open a session on the remote
NE</description>
                              <lineType>CORBA_CONNECTION</lineType>
                        </communicationParameter>
                        <communicationParameter>
                              <label>PASSWORD</label>
                              <value>
                                    <value>PASSWORD</value>
                              </value>
                              <description>The password to open a session on the remote
NE</description>
                              <lineType>CORBA_CONNECTION</lineType>
                        </communicationParameter>
                        <communicationParameter>
                              <label>APPLICATION_NAME</label>
                              <value>
                                    <value>NP</value>
```

```
                    </value>
                    <description>The application name identifier to open a session on
the remote NE</description>
                    <lineType>CORBA_CONNECTION</lineType>
            </communicationParameter>
            <communicationParameter>
                    <label>TERMINAL</label>
                    <value>
                            <value>SNP</value>
                    </value>
                    <description>The FOS client machine to open a session on the remote
NE</description>
                    <lineType>CORBA_CONNECTION</lineType>
            </communicationParameter>
            <communicationParameter>
                    <label>URL</label>
                    <value>
                            <value>t3://127.0.0.1:7001</value>
                    </value>
                    <description>The URL of the weblogic asynchornous
component</description>
                    <lineType>CORBA_CONNECTION</lineType>
            </communicationParameter>
            <communicationParameter>
                    <label>REQUEST_QUEUE_NAME</label>
                    <value>
                            <value>netmanager_7_0_request_queue</value>
                    </value>
                    <description>The JMS request queue name to communicate with the
asynchronous component</description>
                    <lineType>CORBA_CONNECTION</lineType>
            </communicationParameter>
            <communicationParameter>
                    <label>SRQ_SUPPORT</label>
                    <value>
                            <value>Yes</value>
                    </value>
                    <description>Enable or disable the SRQ logging.</description>
                    <lineType>CORBA_CONNECTION</lineType>
            </communicationParameter>
            <communicationParameter>
                    <label>MONITOR_INTERVAL</label>
                    <value>
                            <value>60</value>
                    </value>
                    <description>Work order monitor interval in seconds</description>
                    <lineType>CORBA_CONNECTION</lineType>
            </communicationParameter>
            <communicationParameter>
                    <label>CONNECTION_DELAY</label>
                    <value>
                            <value>5</value>
                    </value>
                    <description>Time in seconds to wait after registering a consumer
to event channel. This is necessary for NetManger to be ready to accept
requests.</description>
                    <lineType>CORBA_CONNECTION</lineType>
            </communicationParameter>
            <communicationParameter>
                    <label>TIMEOUT_ACTION</label>
```

```
                    <value>
                        <value>SOFT_FAIL</value>
                    </value>
                    <description>Action to take if a work order is not completed within
    the timeout period. Possible values are FAIL or SOFT_FAIL. </description>
                    <lineType>CORBA_CONNECTION</lineType>
            </communicationParameter>
            <communicationParameter>
                    <label>TIMEOUT</label>
                    <value>
                        <value>1</value>
                    </value>
                    <description>Work order timeout period in minutes</description>
                    <lineType>CORBA_CONNECTION</lineType>
            </communicationParameter>
            <communicationParameter>
                    <label>INIT_NE_RESPONSE_TIME</label>
                    <value>
                        <value>50</value>
                    </value>
                    <description>Initial wait time for NE response in
    milliseconds</description>
                    <lineType>CORBA_CONNECTION</lineType>
            </communicationParameter>
            <communicationParameter>
                    <label>NE_RESPONSE_TIMEOUT</label>
                    <value>
                        <value>30</value>
                    </value>
                    <description>Timeout for NE response in seocnds</description>
                    <lineType>CORBA_CONNECTION</lineType>
            </communicationParameter>
            <communicationParameter>
                    <label>THROTTLE</label>
                    <value>
                        <value>0</value>
                    </value>
                    <description>Time in milliseconds to throttle trasmission rate of
    multiple requests</description>
                    <lineType>CORBA_CONNECTION</lineType>
            </communicationParameter>
            <communicationParameter>
                    <label>NETMFOSIF_NAME</label>
                    <value>
                        <value>NetM_NP_FOS</value>
                    </value>
                    <description>String to look up NetMFOSIf in CORBA naming
    service</description>
                    <lineType>CORBA_CONNECTION</lineType>
            </communicationParameter>
            <communicationParameter>
                    <label>IDLE_TIMER_INT</label>
                    <value>
                        <value>2700</value>
                    </value>
                    <description>Inactivity time interval specified in seconds within
    which it would trigger the ping ASDL.</description>
                    <lineType>CORBA_CONNECTION</lineType>
            </communicationParameter>
            <communicationParameter>
```

```
                        <label>IDLE_TIMER_ASDL</label>
                        <value>
                                <value>A_SI-NETMANAGER_7-0_NETM_PING</value>
                        </value>
                        <description>Name of the ping ASDL</description>
                        <lineType>CORBA_CONNECTION</lineType>
                </communicationParameter>
        </element>
</activationConfig>
```