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1 Introduction

1.1 Document Overview

This document identifies an Interoperability Test Plan (ITP) to be performed by users of the NeuStar Interoperability Testing Service offered at the TMN Test Center. The ITP will be jointly executed by the Test Center and the individual Service Providers or SOA/LSMS Vendors wishing to test their SOA and/or LSMS systems. The test cases defined in this test plan must be executed and passed, before any service provider is allowed to connect their SOA or LSMS to the actual NPAC SMS. This is to ensure that the SOA and LSMS do not corrupt the NPAC SMS and vice versa. The SOA-NPAC and LSMS-NPAC Interoperability Test is broken down into five groups of test cases:

- 1. Stack-to-Stack (S2S)
 - For S2S, due to the nature of association establishment, if the SOA and LSMS share a common computing environment, the S2S test cases for only one of the first two interfaces are required. The S2S test cases applied to the SOA and/or LSMS to NPAC SMS interfaces are identical. The S2S test cases in this plan will basically test the ACSE connectivity between the SOA/LSMS and the NPAC SMS. The end-to-end delivery of PDUs will be implicitly covered by the MOC test cases.
- 2. Security
 - The Security test cases will test the functionality of each item in the lnpAccessControl field. For example, these test cases will address the systemId, cmipDepartureTime, sequenceNumber, listId, keyId, and signature sub-fields. The Local Carriers will have the option to postpone execution of the signature check test case until the end of the test process. However the other Security test cases (i.e. cmipDepartureTime and sequence numbers checks) must be completed successfully prior to MOC testing.
- 3. Managed Object Conformance (MOC) MOC test cases address the basic operations of each and every Managed Object (MO) in the system. They test everything described in the MOCS and the GDMO file except for the application-to-application level of behavior of the MOs. They mainly consist of a single CMIP request and the corresponding response.
- 4. Association Management The Association Management test group is performed to ensure that a SOA and a LSMS can recover an association. It also tests whether the SOA or LSMS can switch to the backup NPAC SMS when it is instructed to do so by the NPAC SMS.
- 3. Application-to-Application (A2A)
 The A2A test cases are concerned with the behavior of the application as a whole on the SOA and the LSMS. They focus on the transactions that are allowed by the two interfaces (SOA to NPAC and NPAC to LSMS) and span multiple MO classes and CMIP requests/responses.

This document assumes familiarity with the terms, structure, and content of the following documents:

NPAC SMS Functional Requirements Specification

NPAC SMS Interoperable Interface Specification

This document describes the test process, its inputs and outputs, and the specific responsibilities of those participating in the test process. The nomenclature used to describe the individual tests, and the formats of the test results are also described. The specific test cases documented are:

SOA or LSMS to NPAC S2S Test Cases

SOA or LSMS to NPAC Security Test Cases

SOA to NPAC SMS MOC Test Cases

LSMS to NPAC SMS MOC Test Cases

NPAC SMS to SOA MOC Test Cases

NPAC SMS to LSMS MOC Test Cases

SOA or LSMS to NPAC SMS Association Management Test Cases

SOA to NPAC SMS A2A Test Cases

NPAC SMS to LSMS A2A Test Cases

NPAC SMS to LSMS A2A Test Cases

1.1.1 Document Structure

The ITP contains the following sections:

Chapter 1 Introduction

Introduction to the document.

Chapter 2 The Testing Process

Defines the interoperability testing process.

Chapter 3 Stack to Stack Test Cases

Explanation of the stack-to-stack interoperability testing.

Chapter 4 Security Test Cases

Explanation of the security interoperability testing.

Chapter 5 Managed Object Conformance Interoperability Testing

Explanation of the MOC interoperability testing.

Chapter 6 Association Management Interoperability Testing

Explanation of the recovery interoperability testing.

Chapter 7 Application to Application Interoperability Testing

Explanation of the App-to-App interoperability testing.

Chapter 8 Interoperability Testing Exit Criteria

Explanation of the exit criteria.

Chapter 9 Stack to Stack Test Cases

Test cases that verify the OSI Protocol stack.

Chapter 10 Security Test Cases

Security related test cases.

Chapter 11 SOA to NPAC MOC Test Cases

Managed Object Conformance (MOC) test cases that test the basic CMIP functionality for the SOA to NPAC interface.

Chapter 12 NPAC to SOA MOC Test Cases

MOC test cases that test the basic CMIP functionality for the NPAC to SOA interface.

Chapter 13 LSMS to NPAC MOC Test Cases

MOC test cases that test the basic CMIP functionality for the LSMS to NPAC interface.

Chapter 14 NPAC to LSMS MOC Test Cases

MOC test cases that test the basic CMIP functionality for the NPAC to LSMS interface.

Chapter 15 Association Management Test Cases

Test cases related to association recovery.

Chapter 16 APP-to-APP Test Cases

Test cases related how the application operates. As opposed to the single events tested in the MOC test cases, these incorporate entire scenarios.

Appendix A Testing Registration Form

An example of the ITP registration form.

Appendix B Test Case Nomenclature

A definition of terms used in the test case names.

Appendix C Complete ITP Test Case Checklist

A complete listing of all test cases.

Appendix D Standard Regression Test Case Checklist

A checklist of all Release 3.0 regression test cases. *AppendixE 3.0 Test Case CheckList*A checklist of all Release 3.0 test cases.

1.2 <u>Document Numbering Strategy</u>

Starting with Release 2.0, the documentation number of the ITP document will be Version X.Y.Z as follows:

- X will only be incremented when a new major release of the NPAC SMS system is authorized. It will contain only the Change Orders that have been authorized for inclusion in this new major release.
- Y will only be incremented when a new sub-release of an existing release X is authorized. It will contain only the Change Orders that have been authorized for inclusion in this new sub-release.
- Z will be incremented when documentation only clarifications and/or backward compatibility issues or other deficiencies, are made in the FRS and/or IIS. This number will be reset to 0 when Y is incremented.

For example, the first release of the Release 2 ITP will be numbered 2.0.0. If documentation only clarifications are introduced in the next release of the ITP document it will be numbered 2.0.1. If requirements are added to Release 2.0 that require NPAC SMS software changes then the next release of the ITP document will be numbered 2.1.0.

This number scheme is intended to make the mapping between NPAC SMS and the FRS and IIS documentation consistent.

1.3 Testing Overview

The interoperability testing for Release 3.0 includes all of the new test cases in this ITP document and the standard regression test cases.

Note:

- It is mandatory for all LSMS and SOA products to execute the interoperability testing for Release 3.0
 including the standard regression test cases to ensure backward compatibility with their existing SOA
 or LSMS products.
- During regression, 3.0 and 3.1.0 interoperability testing, the test data should reflect the features currently supported by the LSMS or SOA product. (e.g., WSMSC data, Timer Type or Business Day Type attributes)
- Conditional test cases that were not run in ITP 2.0 need not be re-run for Release 3.0 or 3.1.0 interoperability testing if the SOA or LSMS product does not support the related functionality.
- New 3.0 and 3.1.0 interoperability test cases must be run if a service provider is supporting the new functionality.
- If a SOA or LSMS product implements new features that existed in the NPAC SMS prior to Release 3.1.0, the product must execute the prior ITP test cases corresponding to the new functionality.
- The access control must be present for all test cases. However, the digital signature does not have to be specified.
- The action and notification names reflect those used in the NPAC SMS GDMO file not the ASN.1 file.

• The invalid test case scenarios reflect the preferred behavior or response. Other behavior or responses will be reviewed on a case-by-case basis.

1.4 <u>Document Version History</u>

1.4.1 ITP Version 1.7

Released on 07/31/97, supports NANC IIS Version 1.2.

1.4.2 ITP Version 1.8

Released on 06/30/98, supports NANC IIS Version 1.9 and the Illinois Number Pooling Flows and contains new test cases supporting the subscriptionVersionNewNPA-NXX notification and the LNP Type of 'POOL'.

1.4.3 Release 2.0.1

- Incorporated test cases from NPAC SMS Interoperability Test Plan 1.8 and reformatted to new style.
- Merged test cases from NPAC SMS Interoperability Test Plan 2.0.0.
- Removed obsolete test cases.
- Removed all test cases of format "MOC.XXX.VAL.GET.SING.*" and "MOC.XXX.VAL.GET.MULT.*".
- Converted all "MOC.XXX.INV.GET.*" test cases to retrieve ALL attributes.
- Changed any hard-coded values to "an agreed upon value".

1.4.4 Release 3.0.0

- Updated test case wording to current guidelines.
- Removed obsolete test cases.
- Created 3.x test cases and Test Case Checklist.
- Updated 16.15.4 (LSMS Resync) to include Number Pool Blocks.
- Updated Regression Test Case List to include 16.15.1 (SOA Resync).
- Removed 2.x Test Case Checklists.
- Removed Release 1.4 Illinois Number Pooling test cases.

1.4.5 Release 3.0.1

• Updated Regression Test Case List to include Release 3.0 test cases.

1.4.6 Release 3.1.0

• Updated for NPAC SMS Release 3.1.0.

1.5 Related Publications

North American Numbering Council (NANC) Functional Requirements Specification, Number Portability Administration Center (NPAC, Service Management System (SMS), Version 3.1.0, August 31, 2001.

North American Numbering Council (NANC) NPAC SMS Interoperability Interface Specification, Version 3.1.0, August 22, 2001.

ITU-T Recommendation X.290, OSI Conformance Testing Methodology and Framework for Protocol Recommendations For ITU-T Applications - General Concepts, April, 1995.

ITU-T Recommendation X.291, OSI Conformance Testing Methodology and Framework for Protocol Recommendations For ITU-T Applications - Abstract Test Suite Specification, April, 1995.

ISO/IEC 9646-5, Information Technology - Open Systems Interconnection - Conformance Testing Methodology and Framework - Part 5: Requirements on Test Laboratories and Clients for the Conformance Assessment Process, Second edition, December 15, 1994. Also published as ITU-T Recommendations X.294.

2 The Testing Process

2.1 <u>Interoperability and Regression Testing Guidelines</u>

The LNPA WG recommends that ITP testing be performed on a SOA/LSMS Developer's software anytime that a change is made to the interface of either the NPAC SMS or the Developer's SOA/LSMS. In the event that the interface change is initiated by the NPAC SMS, the SOA/LSMS Developers shall perform ITP on each version of SOA/LSMS software that may potentially be used by Service Providers with the new NPAC SMS interface.

The following provides guidelines for specific scenarios and what level of testing is recommended for them:

- When a local product (SOA/LSMS) is compiled with the current interface model, and a new local feature (SOA/LSMS feature) is implemented that DOES NOT involve a change in the use of the interface model, and the NPAC SMS is compiled with the current model, then no ITP testing is required.
- 2. When a local product is compiled with the current interface model, and no new local features implemented, and the NPAC SMS is compiled with the new interface model, then ITP testing is required [standard regression test cases MOC only].

This testing verifies the backwards compatibility of the interface.

3. When a local product is compiled with the new interface model, and no new local features implemented, and the NPAC SMS is compiled with the new interface model, then ITP testing is required [standard regression test cases - MOC only].

This testing verifies the backwards compatibility of the interface.

4. When a local product is compiled with the new interface model, and new local features are implemented that involve the interface, and the NPAC SMS is compiled with the new interface model, then ITP testing is required [all appropriate standard regression test cases and new functionality test cases].

This testing verifies the new software against the model and the NPAC SMS.

5. When a local product is compiled with the current interface model, and new local features are implemented that involve the interface, and the NPAC SMS is compiled with the current model, then ITP testing is required [verify new feature - new functionality test cases]. Note: the regression test cases would have been addressed when the vendor upgraded the local product to the current version of the interface model.

For regression testing, the LNPA WG recommends that all service providers perform a minimum set of regression tests for all new releases.

2.2 Test Phases

The NPAC SMS Interoperability Test plan defines five phases of testing: Stack-to-Stack testing, Security testing, Managed Object Conformance testing, Association Management testing and Application-to-Application testing. Each phase can be completed separately but with the following constraints:

• Completion of Stack-to-Stack testing is a prerequisite to Security testing.

- Completion of Stack-to-Stack testing is a prerequisite to Managed Object Conformance testing.
- Completion of the Security check of cmipDepartureTime and sequence (Security Group A) is a prerequisite to MOC testing.
- Completion of Managed Object Conformance testing is a prerequisite to Association Management testing.
- Some parts of Security (namely signature checking i.e. Security Group B) testing may be postponed until after MOC or Association Management testing.
- Application-to-Application testing may not be started until the completion of the first four testing phases.

Before commencing the testing process with the Test Center, the Service Provider or SOA/LSMS Vendor must have completed CTS-3 testing. The S2S test consists of Transport Sanity Test, Association Establishment, Release and Abort Test. The Security test consists of two parts. The first part (Group A) tests basic authentication functions using the emipDepartureTime, sequenceNumber, and systemId subfields of the access control field. The second part (Group B) of the security test consists of verification of the signature sub-field using hashing and MD5 encryption techniques using the listId and keyId from the accessControl structure. The MOC test verifies that all possible CMIP operations, i.e. m-get, m-set, m-create, m-delete, m-action, notification and confirmation may be performed for the respective MOs, as well as the various information model MO implementations i.e. support of attributes, correct name bindings, etc. The Association Management test covers Retry-Same-Host, Retry-Other-Host of the ACSE association establishment test, and the ability of the SUT to recover from time-outs, security violation and association loss. The A2A test examines the capability of the application on the SUT to carry out the transactions listed in the requirements.

2.3 Key Lists and Tunable Parameters

A basic requirement for connecting to the NPAC SMS is the shared knowledge of a set of key lists that are referenced in the lnpAccessControl data. A key from one of these lists is used to encrypt/decrypt the signature of the lnpAccessControl structure. A single Key List will be generated and provided to all the service providers for the purposes of performing interoperability testing. The Service Provider must supply DSET with a Key List.

The values to be used for NPAC SMS tunable parameters are listed in the following table. If NPAC SMS tunable parameters and/or guidelines change, the updated values should be used.

Table 2.1 - NPAC SMS Tunable Parameters (from Release 3.0.0 FRS, Appendix C)			
PARAMETER VALUE			
SOA Retry Interval	15 minutes		
LSMS Retry Interval	15 minutes		
SOA Retry Attempts	1		
LSMS Retry Attempts	1		
Maximum Subscription Query	150 Objects Maximum		

2.4 Test Case Description

The format for the ITP is as follows:

Purpose	The purpose of the test case for the system under test.	
Severity	 C – conditional must be run if the functionality is implemented by the product. O – optional depending on product implementation and vendor choice. R – required for basic LSMS and/or SOA functionality. 	
	These values replace the existing severity 1, 2, 3, and 4 severity values.	
Severity Explanation	Explanation of the test case severity assigned. In cases of conditional or optional severity, an explanation of what optional functionality that may implemented by the SOA or LSMS that would necessitate the execution of the test case.	
Prerequisites	SOA, LSMS and/or the NPAC SMS Simulator prerequisites for execution of the test case. If the prerequisite is a test case, that test case should have been successfully completed.	
Procedure	SOA, LSMS, and/or the NPAC SMS Simulator steps that must be followed for the execution of the test case.	
Expected Results	Results expected for the SOA or LSMS under test.	

2.4.1 Example

The following example shows a Stack-to-Stack test, initiated by the SOA to test for invalid security key detection. The test number (S2S.SOA.INV.ASSOC.INVK) is further described in the next sub-section.

Table 2.2 - Test Case Example		
Test Id:	S2S.SOA.PING	
Purpose:	To verify that the IP layer is functioning properly.	
Severity:	О	
Severity	Does not impact ability to provide service. No requirements for functionality. May be waived	
Explanation:	if System Software used does not support/provide a ping utility.	
Prerequisite:	No association established between the SOA/LSMS and NPAC SMS Simulator.	
Procedure:	1. SOA/LSMS issues a ping.	
	NPAC SMS Simulator responds to ping.	
Expected Results:	Ping is successful.	

2.5 Test Case Numbering

Test case numbers are the concatenation of a set of test descriptors that together uniquely identify the test being performed. Each descriptor making up a test number is separated from the next using a period. The general form of a test number is:

<Test Type>.<System Under Test (SUT) or Initiator for MOC only>.<Category>[.<Subcategory>].Operation[.<Sub-operation>]

The *Test Type* and *SUT/Initiator* descriptors are defined in the following tables. The *Category*, *Sub-category* (if present), *Operation*, and *Sub-operation* (if present), are described under the test type specific sections of this document.

Table 2.3 - ITP Test Types		
Түре	DESCRIPTION	
S2S	Stack-to-Stack Testing	
SEC	Security Testing	
MOC	Managed Object Conformance Testing	
AMG	Association Management Testing	
A2A	Application-to-Application Testing	

Table 2.4 - SUT Symbols		
SUT/MOC- INITIATOR	DESCRIPTION	
NPAC	NPAC SMS	
SOA	Service Provider's SOA	
LSMS	Service Provider's Local SMS	

2.5.1 Example

A Stack-to-Stack test, initiated by the SOA to test for invalid security key detection will have the following test Identifier:

S2S.SOA.INV.ASSOC.INVK

In this case, the last three components (INV.ASSOC.INVK) identify the *Category*, the *Operation*, and *Suboperation*. The category (INV) represents tests of invalid situations, the operation (ASSOC) represents an association test, and the sub-operation (INVK) identifies that this explicitly tests for invalid security key handling during association establishment.

2.6 Test Logs

Log files will be used as a mechanism for identifying specific problems with failed or inconclusive tests. The log files will include the Test Number followed by a sequence of PDUs exchanged during the test. The PDUs will be listed in ASN.1 Value Notation format. There will be one log file for each sequence of tests. As an example, all the NPAC SMS to LSMS Managed Object Conformance tests will share a single log file. The log file will contain information on all the test cases, not just those that failed. To avoid any

misunderstanding it is important to clarify that this log file is completely different from the log record objects defined in the GDMO file. Log record MO testing is outside the scope of this document. However, Log Record MOs may be created by a Service Provider on their respective SOA and/or LSMS in order to log the various events during testing.

2.7 Test Reports

Upon completion of the Interoperability Testing, the Test Lab Manager writes an Interoperability Test Report (ITR) documenting the successes and failures of the process. This test report will be provided to the Service Provider or the supplier building the system which was tested. The ITR will:

Identify the test cases used during the Interoperability Testing

Identify the configuration of each test stage and the tools used

Identify the test cases passed

Identify test cases that failed and, if possible, the reason for failure

Identify test cases that were inconclusive

The test report will have a summary section that will sum up the results of a testing session. A sample of the ITR summary is shown in Figure-4:

Interface Under Test: LSMS to NPAC SMS **Test Type:** Stack-to-Stack

SUT Certification Status: CTS-3 certified

Testing Performed for Profile:

CMISE ISO 9596, ISO 9596-1/2 ACSE ISO 8649/8650

ROSE ISO 9072-1/2

etc...

Test Cases Run: 7

Passed: 5
Failed: 2
Inconclusive: 0

Test Results

Figure 1 Test Report Layout

The columns of the Test Result section of the report represent the following:

Index An integer value, starting from 1 (one) and incrementing

by 1 for each test performed. This is presented for convenience only, it has no significance beyond this

report.

Test Number The test case number.

Result Either PASS, FAILED, or INCONCLUSIVE

Reason If the test result is either FAILED or INCONCLUSIVE, this

will reference the log file or an unsatisfied prerequisite.

2.8 Testing Considerations

The NeuStar Interoperability Testing Service will be provided by a series of simulators collectively known as the NPAC SMS Simulator. The NPAC SMS Simulator will be used in different configurations in each phase of the interoperability testing. The NPAC SMS Simulator configurations are documented in the section on each phase of interoperability testing.

2.9 Conformance to Standards

The ITP follows the general guidelines and principles depicted in the ISO/ITU standards for OSI Conformance Testing Methodology and Framework (X.290, X.294/ISO9646-5). For instance, the test cases listed in the ITP form an Abstract Test Method (ATM) since they describe how an Implementation Under Test will be tested independent of any specific realization of a Means of Testing. However, the test case descriptions provide enough details (down to the attribute value level) to enable abstract test cases to be specified for this test method.

The test cases presented in this document were designed to address a representative sample of the Managed Object Conformance Statements available in the IIS. Tests are provided for every mandatory requirement as well as a representative set of conditional and optional requirements listed in the MOCS. In addition, the testing campaigns described by the ITP consist of tests which are best represented by the three types of conformance testing defined by the standards, i.e. Basic Interconnection Tests (S2S and some Security), Capability Tests (MOC), and Behaviour Tests (Security, MOC, Association Management). The OSI Conformance Testing standards also call for a test report to be generated at the conclusion of testing. The test report depicted in the ITP is aligned with the template provided in X.294, and is intended to satisfy that requirement. Finally, the testing process as a whole has been designed in accordance with the standards recommendations. For example the TMN Test Center has a Test Lab Manager who will be responsible for all the issues relating to the lab itself and to the testing process.

2.10 Connectivity

Connectivity information to the NPAC SMS Simulator is available from NeuStar.

3 Stack-to-Stack Interoperability Testing

3.1 Overview

The SOA to NPAC SMS and LSMS to NPAC SMS interfaces are based on the services provided by Remote Operations Service Element (ROSE), Association Control Service Element (ACSE), and Common Management Information Service Element (CMISE) of the OSI application Layer. The Common Management Information Protocol (CMIP) carries the actual information to be exchanged.

The following table describes the OSI and RFC 1006 protocol stack profile used by this application:

Table 3.1 - The OSI and RFC 1006 Stacks Used for NPAC			
OSI LAYER	SERVICE/PROTOCOL	STANDARD	
Application Layer	CMISE	ISO 9595/ITU-T X.710	
		ISO 9596-1/2, ITU-T X.711/X.712	
	ACSE	ISO 8649/8650, ITU-T X.217/X.227	
	ROSE	ISO 9072-1/2, ITU-T X.219/229	
Presentation Layer	COPS, COPP	ISO 8822/8823, ITU-T X.216/226	
	ASN.1, BER	ISO 8824/8825, ITU-T X.208/X.209	
Session Layer	Kernel and Full Duplex	ISO 8326/8327, ITU-T X.215/X.225	
Transport Layer	RFC1006, TP0, TCP		
Network Layer	IP		
Data Link Layer	PPP, MAC, Frame Relay, ATM,		
•	IEEE 802.3		
Physical Layer	DS-1, DS-0 x n, V.34		

The objectives of Stack-to-Stack interoperability testing are to ensure that the OSI stacks used by the NPAC SMS, SOA, and LSMS are compatible and to confirm that elementary connectivity exists between the NPAC and the SOA/LSMS. In addition, S2S testing provides the groundwork for the subsequent phases of testing.

S2S consists of simple TCP/IP connectivity and basic ACSE association setup and release tests.

3.2 Requirements for Testing

3.2.1 General Requirements

To establish a connection between the SOA and NPAC SMS or between the LSMS and NPAC SMS, the originating system should be capable of initiating and responding to the ACSE primitives. As a result, the Service Provider (or agent thereof) must have implemented all the SOA/LSMS initiated test cases and drivers identified in this section before any S2S test cases may be executed. Detailed ACSE and OSI layer parameters are listed in the next section of this document.

Prior to testing, the Service Provider or their Supplier must provide certain pertinent information to the TMN Test Center in order to prepare the Lab for testing their SOA or LSMS. The required information is described in the Testing Registration Form, which must be requested from NeuStar, Inc. A copy of that form is provided in *Appendix A* for reference purposes only.

Stack-to-Stack testing is independent of the application (SOA or LSMS). Thus, if the operating environment (Operating System, Hardware Platform, Stack) is the same for both SOA and LSMS, the Service Provider or SOA/LSMS Vendor need only perform this test series once. However, if the operating environments for the two systems differ in any way, the Service Provider or SOA/LSMS Vendor must perform this test series for both the SOA and LSMS operating environments.

3.3 Scope of Testing

The scope of the stack-to-stack interoperability testing is to verify that the LSMS and SOA systems can establish an association with the NPAC SMS system based on an Association Control Service Element (ACSE) across a TCP/IP network. In doing so, the layers below ACSE (Presentation, Session, TCP/IP) are also being implicitly tested for interoperability.

The stack-to-stack testing is primarily a test of ACSE. It verifies that the OSI/TCP/IP stack can provide platform-to-platform connectivity, and that implementation-specific configuration parameters have been set correctly. However, ACSE testing may also involve verifying Functional Unit negotiation, and Access Control. That type of ACSE testing will be referenced as Security testing and will verify the correct implementation of the Access Control security requirements.

The stack-to-stack testing does not test the system types and association function components of the *lnpAccessControl* structure (see section 4.3.2). Thus, only a single association is required for stack-to-stack testing, regardless of the actual number of associations the SOA/LSMS intends to use to connect to the NPAC SMS.

3.3.1 Stack-to-Stack Testing Parameters

The following tables identify the communications parameters necessary to establish a connection between an SOA or LSMS and the NPAC SMS. The tables can be used to determine the values to be used when establishing associations with the A-ASSOCIATE ACSE Service Primitive. The tables do not reflect the NPAC SMS response to an A-ASSOCIATE request.

3.3.2 NPAC SMS Simulator SAPs

Table 3.2 lists the Session selectors, Transport selectors, and NSAPs of the primary and backup NPAC SMS simulators. Note that the values for the S and T Selectors are examples only; actual values will be assigned prior to the start of testing. The S and T Selectors will be unique to differentiate the primary and the backup NPAC SMS Simulator since the NSAP will be the same for both primary and backup. The Presentation selectors will be different for every Service Provider/Supplier and will be supplied to the SP testing contact person prior to the start of testing.

Table 3.2 - Presentation Service Access Points			
NPAC SMS	SSEL	TSEL	NSAP
Primary	"pssel"	"ptsel"	540072872203208143039002
Backup	"bssel"	"btsel"	540072872203208143039002

3.3.3 Communication Parameters

Table 3.3 - Communications Parameters			
PARAMETER VALUE COMMENT			
Protocol-Version	Version 1	Default	
Application Context Name {2 9 0 0 2}		Systems Management	
Association-information CMIPUserInfo See section 4.3.1			
Presentation-context-def-list PCDL See section 3.3.5			
Version Number	Version 2	Functional Unit shall support Kernel and Duplex	

3.3.4 NPAC Association Information

Table 3.4 - NPACAssociationInfo			
PARAMETER VALUE COMMENT			
errorCode	success (0), access-denied(1), retry-		
same-host(2), or try-other-host(3)			
errorText	GraphicString(SIZE(180))		

3.3.5 Presentation Context Definition List

Table 3.5 - Presentation Context Definition List				
ABSTRACT SYNTAX TRANSFER SYNTAX				
NAME	VALUE	NAME	VALUE	PRESENTATION CONTEXT IDENTIFIER
ACSE	{2 2 1 0 1}	BER	{2 1 1}	Any unique, odd integer (1)
SMASE	{2 9 0 1 1}	BER	{2 1 1}	Any unique, odd integer (5)
CMIP	{2 9 1 1 4}	BER	{2 1 1}	Any unique, odd integer (3)
Access Control	{lnp-	BER	{2 1 1}	
	attribute 1}			

3.4 Assignment of Responsibilities

All associations between the SOA/LSMS and NPAC SMS are initiated by either the SOA or LSMS. The NPAC SMS never initiates an association request. Thus, the tests identified in this document for Stack-to-Stack testing shall be initiated from the SOA and LSMS. A test report will be produced for each test performed. However, correct responses to the ACSE service requests must be verified by the Service Provider or agent thereof.

3.5 Definition of Tests

This section describes the types of tests to be performed. A complete list of the test cases is listed in *Appendix C*. The details of the test cases start in *Chapter 9* of this document. There are two subgroups of Stack-to-Stack testing: TCP/IP and valid ACSE Tests. These are described in the sections below.

A Service Provider or SOA/LSMS Vendor may elect to execute the Security Tests at the same time while performing the S2S test cases. This is accomplished by requesting that the Test Center enable the security features of the S2S simulator. As a result the NPAC SMS simulator will examine the access control field of any ACSE or ROSE PDU. The Service Provider or SOA/LSMS Vendor may choose to perform all or some (Group A) of the security test cases at this time. Note that Group A of Security is a prerequisite to MOC testing and that any given SOA/LSMS will have to eventually pass all the Security test cases before it can be connected to the real NPAC.

3.5.1 TCP/IP Layers Tests

In order to ensure that the underlying TCP/IP layers are functioning properly, two basic connectivity tests will be performed prior to any ACSE tests. First the IP layer will be tested using "ping". This test case will not be a required prerequisite to ACSE tests since some systems might not have a ping function available. The ping test case will have the test-Id <S2S.SOA.PING> for SOA systems and <S2S.LSMS.PING> for

LSMS systems under test. The other test case will validate the operation of the TCP layer and involves using FTP to log into the NPAC SMS. This test case will have the following test-Ids <S2S.SOA.FTP> and <S2S.LSMS.FTP> for the SOA and LSMS interfaces respectively. Passing the FTP test case will be a prerequisite to any ACSE tests since the requirements specify that FTP must be supported.

3.5.2 Valid ACSE Tests

The Valid ACSE tests check an application's ability to establish, release, and abort associations with well-formed PDUs. These tests rely on the SOA or LSMS initiating the association establish request. The valid stack-to-stack tests will consist of association request, release, and abort by the SUT and association abort by the NPAC simulator. These tests will use well-formed ACSE PDUs.

4 Security Interoperability Testing

4.1 Overview

The Security Test is based on verifying the InpAccessControl attribute which is included in every ACSE and CMIP message exchanged over the interface. The Security test is subdivided into two parts. The first part referenced by Security Test Group A verifies proper uses of all the items in InpAccessControl except for the signature field. The second part of Security Tests examines the signature field in the Access Control Attribute for both ACSE and CMIP messages. This set of test cases will be known as Group B. Security Tests may performed in whole or in part (Group A) at the same time as S2S tests. Note that only Group A of the Security test cases is a required prerequisite of the MOC test phase. Also note that the NPAC simulator does not require the encryption software on the SUT to be either deactivated or not implemented in order to run Group A of the security tests. Whether an ACSE association or a CMIP request will be granted or not will depend on the values used in the Access Control attribute in the respective PDUs. For the details of the security requirements of the SOA/LSMS to NPAC SMS interface, please refer to section 5.2 Security of the NPAC SMS Interoperable Interface Specification document.

4.2 Requirements for Testing

Satisfactory completion of S2S testing is a pre-requisite for the Security Test. If a Service Provider or SOA/LSMS Vendor elects to defer the signature field Group B test, he/she may do so by asking the Test Center to disable the signature check during the Security Test. However, the Service Provider or SOA/LSMS Vendor must pass all the Security test cases in order to satisfy the security requirements of the interface.

Prior to testing, the Service Provider or SOA/LSMS Vendor must inform the Test Center of the value to be used for the *systemId* component of the *lnpAccessControl* structure. This value will be a Service Provider ID value. This value will be supplied as one of the entries of the Testing Registration Form presented in *Appendix A*.

4.2.1 LNP Access Control Attribute

The ASN.1 type of lnpAccessControl field is shown below. Please refer to chapter 5 of the NPAC SMS Interoperable Interface Specification document for further details.

```
LnpAccessControl ::= SEQUENCE {
    svstemId
                       [0] SystemID,
    systemType
                       [1] SystemType,
    userId
                      [2] GraphicString60 OPTIONAL,
                      [3] INTEGER,
    listId
    kevId
                       [4] INTEGER,
    cmipDepartureTime [5] GeneralizedTime,
    sequenceNumber
                      [6] INTEGER (0...4294967295),
    function
                       [7] AssociationFunction,
    recoveryMode
                       [8] BOOLEAN,
    signature
                       [9] BITSTRING
}
ServiceProvID ::= GraphicString4
SystemID ::= CHOICE {
    serviceProvID [0] ServiceProvId,
    npac-sms [1] GraphicString60
SystemType ::= ENUM {
    soa(0),
    local-sms(1),
```

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```
soa-and-local-sms(2),
   npac-sms(3) --value is only valid for AccessControl definition
}
AssociationFunction ::= SEQUENCE {
   soaUnits [0] SoaUnits,
   lsmsUnits [1] LSMSUnits
}
SoaUnits ::= SEQUENCE {
   soaMgmt [0] NULL OPTIONAL,
   networkDataMgmt [1] NULL OPTIONAL
}
LSMSUnits ::= SEQUENCE {
   dataDownload [0] NULL OPTIONAL,
   networkDataMgmt [1] NULL OPTIONAL,
   query [2] NULL OPTIONAL
}
```

4.3 Scope of Testing

The Security Test will verify that the exchanged PDUs contain the correct values for systemID, listId, keyId, cmipDepartureTime, sequenceNumber and signature in the Access Control field. It will not verify the userId, function, and recovery mode. Outside the scope of this testing is to examine the ability of the SUT to recover from a detected security breach which will be handled by the Association Management Testing phase. Furthermore, as mentioned previously, it is outside the scope of Interoperability Testing to address M&Ps related to interoperating with the NPAC SMS. However, it may be necessary for the NPAC Simulator to perform functions related to M&Ps in order to communicate with the System Under Test (SUT). For example, an SUT may require the NPAC Simulator to exchange key list acknowledgement files before Security testing can begin. If necessary, the NPAC Simulator will generate the file and exchange with the SUT as appropriate. However, this does not constitute testing of the M&P and thus does not ensure that the SUT will be able to interoperate with the NPAC SMS regarding that particular M&P. The following tables list the allowed values for CMIP User Information and Access Control.

4.3.1 CMIP User Information

Table 4.1 - CMIPUserInfo				
PARAMETER VALUE COMMENT				
Protocol-Version	Version 2	Default		
Functional Units	Kernel, Multiple Object Selection, Multiple Reply			
Access Control	LnpAccessControl	OID={lnpAttribute 1}; See section 4.3.2		
UserInfo	NpacAssociationInfo	OID={LNP-ASN1}; See section 3.3.4		

4.3.2 Access Control

Table 4.2 - LnpAccessControl			
PARAMETER	VALUE	COMMENT	
SystemId	SPID		
SystemType	soa(0), local-sms(1),		

Table 4.2 - LnpAccessControl				
PARAMETER	VALUE	COMMENT		
	soa-and-local-sms(2), npac-sms(3)			
userId	SOA User UserId	Optional - SOA		
listId				
keyId				
cmipDepartureTime	System Time	GMT		
sequenceNumber	0	Always zero on association establishment		
signature	encrypted			
function	dataDownload, networkDataMgmt,	LSMS and SOA Functional Units		
	query, soaMgmt			
recoveryMode	TRUE, or FALSE			

4.4 Assignment of Responsibilities

All associations between the SOA/LSMS and NPAC SMS are initiated by either the SOA or LSMS. The NPAC SMS never initiates an association request. Thus, the tests identified in this document for Security testing shall be initiated from the SOA and LSMS. A test report will be produced by the Test Center for each test performed. However, correct responses to the ACSE service requests must be verified by the Service Provider or agent thereof.

4.5 Definition of Tests

There will be two main categories of test cases in both GroupA and GroupB of the Security Test. They are Valid and Invalid tests. Before starting the security test, the system clocks of the NPAC SMS simulator and the SOA and/or LSMS systems under test will be synchronized manually to meet the 5 minutes time variance requirement. Testing the implementation of NTP (Network Time Protocol) is outside the scope of this Test Plan, since it is left up to the Service Providers or SOA/LSMS Vendors to select their own time source. However, the cmipDepartureTime field in the accessControl attribute will be checked in every PDU to verify that it is within the 5 minutes tolerance. The detailed description of all the security test cases is presented in *Chapter 10*.

4.5.1 Valid Security Test

The Valid Security Tests verify the capability of the SUT to issue well formed ACSE PDU's containing valid values for the systemId, listId, keyId, cmipDepartureTime, sequenceNumber and signature fields of the lnpAccessControl attribute. The ability of the SUT to generate valid lnpAccessControl CMIP PDU's will be exercised during MOC testing and is not duplicated here. There are two Valid Security test cases (one per Group), one for the A-associate request without RSA, and the other with RSA signature encryption. Only one valid security test case will need to run depending on whether encryption is implemented or not, i.e. the SUT will not be required to de-activate encryption if it is already implemented in order to run the NOSIG test case. That test case is only available for the convenience of the Service Providers or their SOA/LSMS suppliers. The Test Ids for this test category will have the test number prefix of SEC.<Initiating System>.VAL, where Initiating System has a value of either SOA or LSMS.

4.5.2 Invalid Security Tests

Invalid Security Tests are performed to ensure that associations are not established by the SOA/LSMS under compromised security conditions. The security of the system is considered compromised if any of the fields in the LNP Access Control Structure are invalid. The objective of these tests is to verify the SOA's and LSMS's interoperability with the NPAC SMS, and not the other way around. Thus, Invalid ACSE

Security Tests require the SUT to issue correctly formed association requests for which the NPAC simulator will respond with well formed ACSE association response PDUs containing an invalid field in the access control structure. The SUT is expected to react according to the requirements specified in the IIS, that is aborting the association without a reason given. This category also include one CMIP PDU test case which examines the ability of the SUT to reject a Notification from the NPAC simulator which contain an invalid signature field. Also included in Group B is a set of CMIP operations test cases targeted assessing the SOA and LSMS's ability to handle security threats. Note that these test cases do not require the SUT to recover from the security threats. The SUT will pass this testing phase if it is able to detect the security violation and abort the association for all the invalid test cases. Testing the capability of the SUT to recover from those conditions, i.e. re-establishing an association with a new Key and List Ids, is handled by the Association Management test cases in section 6 of the ITP. The Test Ids for this test category will have the test number prefix of SEC.<Initiating System>.INV, where Initiating System has a value of either SOA or LSMS.

5 Managed Object Conformance Interoperability Testing

5.1 Overview

Managed Object Conformance tests check the ability of the SOA/LSMS to communicate information and instructions concerning specific Managed Object Classes to the NPAC SMS. Determining the results of these tests requires prior knowledge of the objects under test, and a detailed analysis of the messages exchanged between the SOA/LSMS and the NPAC SMS. This knowledge is expressed in the GDMO Information Model defined in the NPAC SMS Interoperable Interface Specification.

Furthermore, these tests check for the ability to interrogate and manipulate objects residing in a remote environment. The purpose is to ensure that the Manager can initiate, and the Agent can assimilate, syntactically and semantically, valid requests, and responds to such requests according to the NPAC SMS specification.

Throughout this section, the term *Manager* is used to represent either the SOA or the manager role of the NPAC SMS or LSMS. The term *Agent* is used to represent either the agent role of the LSMS or that of the NPAC SMS. The NPAC SMS will use the naming attribute value defined in IIS for the real NPAC SMS, i.e. "Midwest Regional NPAC SMS".

5.2 Requirements for Testing

5.2.1 General Requirements

Successful completion of the Stack-to-Stack and Security Group A interoperability testing and its prerequisites are required before embarking on the Managed Object Conformance testing phase. Also, the Service Provider or SOA/LSMS Vendor wishing to sign up for testing must submit completed MOCS, SCS, ICS, or IXIT reference documents (See *Appendix A*) at least one week prior to the start date of MOC testing. This allows the Test Lab to determine the testing configuration and needs of that NPAC Client.

5.2.2 Order of Tests

Due to the nature of the containment hierarchy, tests must be performed in the order in which they are specified in the respective test case sections of this document, with the test cases pertaining M-DELETE operations to be executed at the end of the MOC test phase. However, the following test case sets are independent of each other:

SOA Manager to NPAC SMS Agent Managed Object Conformance Test Cases.

LSMS Manager to NPAC SMS Agent Managed Object Conformance Test Cases.

NPAC SMS Manager to SOA Agent Managed Object Conformance Test Cases.

NPAC SMS Manager to LSMS Agent Managed Object Conformance Test Cases.

5.2.3 Association Type

Prior to commencing Managed Object Conformance testing, the Service Provider or SOA/LSMS Vendor must supply the TMN Test Center with the configuration of the association to be used in connecting to the NPAC SMS. The NPAC SMS simulators currently support a single association per simulator instance. The type and functions (see 4.3.2 - *systemType*, and *function*) of the association used by the SUT must be communicated to the NeuStar Interoperability Testing Service Administrator via the Testing Registration Form depicted in *Appendix A*.

5.3 Scope of Testing

The main focus of Managed Object Conformance testing is to check conformance to the Managed Object Conformance Statements (MOCS) contained in the NPAC SMS Interoperable Interface Specification, Chapter 9. The test cases will exercise those capabilities that can be derived directly from the GDMO Information Model. It is not the purpose of these tests to check sequences of operations as expressed in the Operational Flows listed in Appendix B of the IIS.

One of the objectives of the MOC Test will be to ensure that the NPAC is unable to adversely affect a local carrier's system, and vice versa.

5.4 Assignment of Responsibilities

The SOA and LSMS have a peer-to-peer relationship with the NPAC SMS. Thus, the SOA and LSMS perform both a Manager and Agent role from a CMIP perspective. The implementation of the Managed Object Conformance tests is the joint responsibility of the SOA and LSMS vendor and the TMN Test Center. SOA and LSMS initiated tests are the responsibility of the Service Provider or agent thereof, and NPAC SMS initiated tests are the responsibility of the Test Center.

Completion of the tests outlined in this section will be documented by the Test Center. However, determination of success for SOA or LSMS initiated tests will be left to the performer of the tests. Thus, interoperability testing is limited to the correct processing of request and responses by the NPAC SMS Simulator.

5.5 <u>Definition of Tests</u>

5.5.1 Capability Tests

Capability tests provide limited testing of the observable capabilities of the Manager/Agent regarding static conformance requirements. These tests check the existence and basic validity of the specified capabilities. The results of these tests and the behavior tests form the basis for claims of conformity. This test group consists of Operation and Notification tests.

Capability Tests will assume the test number descriptor value of CAP. All tests in this category will start with the prefix MOC.<Initiating System>.CAP, where <Initiating System> is either SOA, LSMS, or NPAC.

5.5.1.1 Object Operation Tests

Operation tests check the Manager's ability to initiate CMIP requests and handle their results and the Agent's ability to respond to a manager's requests and report the events described in the NPAC SMS specifications. These tests check only the syntax and semantics of the messages exchanged between the Manager and Agent; neither the Manager nor Agent behavior is checked. The test cases are developed by reviewing the MOCS and the GDMO Behavior Definitions for each Managed Object Class to determine the valid set of CMIS requests that can be issued to that Managed Object Class. For each operation identified, a test is formulated to initiate the operation with a complete, well-formed CMIP PDU.

As an example, the *InpLocalSMS* object class, which has a single attribute other than those it inherits from *top*, supports only the M-GET and M-ACTION operations across the NPAC SMS Manager to LSMS Agent interface. Thus, for this Managed Object Class, two Object Operation Capability tests will be implemented:

A single M-GET test to check that the *nameBinding*, *managedObjectClass*, and *lnpLocal-SMS-Name* can be retrieved.

A *InpRecoveryComplete* M-ACTION (which has no user data in the request) to test that a reply is returned (to the LSMS or SOA) with all mandatory data items.

Test numbers in this category will have the prefix MOC.<Initiating System>.CAP.OP.

5.5.1.2 Object Notification Tests

Notification tests check the Manager's ability to handle correctly notifications produced by the Agent entity, and the Manager's ability to reply to the notifications appropriate to the NPAC SMS Interoperable Interface Specifications. They also verify the Agent's ability to issue valid M-EVENT-REPORT requests to the Manager entity and handle the Manager responses to those requests according to the NPAC SMS Interoperable Interface Specifications.

Test numbers in this category will have the prefix MOC.<Initiating System>.CAP.NOT.

With Release 3.1.0, the Service Provider SOAs have the option of supporting either "individual" notifications for subscription version processing or "range/list" notifications. If a SOA will be supporting both notifications, test cases using the subscription version notifications must be run for both versions.

The "list" portion of a "range/list" notification will only be sent if the subscription version ids are non-consecutive. If the range/list notifications are supported and a single subscription version is involved, a "range" of one subscription version will be sent as opposed to a "list" of one.

Below is a list of each type of SOA to NPAC SMS subscription version/lnpSubscription notification.

Individual Notifications	Range/List Notifications
Attribute Value Change	subscriptionVersionRangeAttributeValueChange
subscriptionVersionCancellationAcknowledgeR equest	subscripitionVersionRangeCancellationAcknowledgeR equest
subscriptionVersionDonorSP- CustomerDisconnectDate	subscriptionVersionRangeDonorSP- CustomerDisconnectDate
subscriptionVersionNewSP-CreateRequest	subscriptionVersionRangeNewSP-CreateRequest
subscriptionVersionNewSPFinalCreateWindow Expiration	subscriptionVersionRangeNewSPFinalCreateWindowE xpiration
Object Creation	subscriptionVersionRangeObjectCreation
subscriptionVersionOldSP-ConcurrenceRequest	subscriptionVersionRangeOldSP-ConcurrenceRequest
subscriptionVersionOldSPFinalConcurrenceWi ndowExpiration	subscriptionVersionRangeOldSPFinalConcurrenceWin dowExpiration
subscriptionVersionStatusAttributeValueChang e	subscriptionVersionRangeStatusAttributeValueChange

Below is a list of the remaining notifications.

Notification Name	Interface
InpNPAC-SMS-Operational-Information	SOA to NPAC SMS
	LSMS to NPAC SMS
subscriptionAudit-DiscrepancyRpt	SOA to NPAC SMS
subscriptionAuditResults	SOA to NPAC SMS
subscriptionNewNPA-NXX	SOA to NPAC SMS
	LSMS to NPAC SMS
subscriptionVersionLocalSMS-ActionResults	NPAC SMS to LSMS

5.5.2 Behavior Tests

Behavior tests check an implementation as thoroughly as practicable over the full range of dynamic conformance requirements. Since the number of possible combinations of events is astronomical, such testing can't be exhaustive. There are several types of Behavior tests as listed in the following subsections.

5.5.2.1 Valid Tests

Valid behavior tests check the Manager's ability to initiate correctly with, and respond to, syntactically and semantically valid requests and responses. They also check the Agent's ability to handle a Manager's valid requests and respond to them appropriately. This type of testing uses several mechanisms to provide adequate testing coverage. The testing mechanisms are represented by test groups in the test suite structure that divide the valid behavior test group accordingly. Each of these mechanism test groups is then subsequently structured.

Valid Tests go beyond those defined within the Capability Tests to provide a more complete set of tests that check optional components as well as mandatory components. This test group will have the test number prefix of MOC.MOC.<a href="MOC. Initiating System>.VAL.

Example test categories are:

Create of Object Instance (use a Get to check that the object now exists in the Agent).

Create of Object Instance by reference

Create of Object Instance using Auto Naming

Get a group of objects within a scope

Set a single attribute (Use a Get to determine whether the Set has taken effect in the Agent).

Set multiple attributes

Delete an Object

Delete objects specified within a scope request

5.5.2.2 Invalid Tests

Invalid behavior tests check the Manager and Agent's ability to respond correctly to syntactically or semantically invalid object messages. These tests are divided into Invalid Semantics, Invalid Syntax, and Inopportune Behavior tests. Inopportune Behavior tests are considered outside the scope of this document. All tests in this subgroup will have the test number prefix of MOC.<Initiating System>.INV. A SOA or LSMS Manager entity that is being tested will not be required to initiate invalid requests. However the error handling capabilities of that Manager will be tested by the NPAC SMS Agent emulator responding with invalid and error response PDUs to valid Manager requests. In the case where an Agent entity (LSMS) is under test, the NPAC SMS Manager emulator will verify this Agent error handling abilities by sending it semantically and syntactically invalid requests. The expected result for this type of test cases will be for the SUT to detect the error and report it back to the NPAC simulator using one of the valid CMIP error codes. CMIP Error Response PDUs as well as CMIP Reject PDUs will be accepted in return for any invalid requests. Note that in the cases where more than one CMIP error code applies, the return of any single and reasonable (e.g. processingFailureEr instead of setListErrorEr) code will be considered a successful test result.

5.5.2.2.1 Invalid Semantics

These tests check the Manager's and Agent's ability to respond to Protocol Data Units (PDUs) containing invalid parameter values, invalid combinations of parameter values, or inappropriate requests. For example, for the LSMS implemented Managed Object Class of *InpLocalSMS*, tests would address the following:

the LSMS responds with an error to an M-CREATE request,

the LSMS responds with an error to an M-SET request,

the LSMS responds with an "Invalid Attribute" error,

etc.

There are two categories of these tests – generic, which would apply to all the Managed Object Classes in the Information Model, and MO specific invalid tests. Examples of the generic type of invalid tests are:

Create object that already exists

Delete non-existent object

Complexity Limitation tests (getting a group of more than 50 objects)

Invalid attributes

5.5.2.2.2 Invalid Syntax

These tests check the Manager and Agent's ability to respond to syntactically invalid PDUs. A PDU is syntactically invalid if it does not conform to the ASN.1 specification for the application messages and object classes, as well as the Basic Encoding Rules (BER).

Example test types are as follows:

Set an attribute to an invalid enumerated value of an enumerated type

Set an attribute to an invalid string value

Set an integer attribute beyond its range

Set an attribute to an invalid type (i.e. set an Integer typed PDU to a String)

5.5.2.3 Name Binding Tests

Name Binding tests check for the system behavior under various name binding variations - both correct and incorrect. The current definition of the NPAC SMS Interoperable Interface Specification does not require the definition and implementation of Name Binding tests.

5.5.2.4 Boundary Tests

Boundary condition tests check to verify the behavior of systems over maximum and minimum attribute values for each object class. As an example, if an integer attribute has a range specified, a test will check that the lowest and highest values within that range can successfully be established in a set request. Test numbers for tests in this category have test numbers prefixed with MOC.<Initiating System>.BND.

6 Association Management Interoperability Testing

6.1 Overview

Association Management tests check the association recovery capabilities of the SOA and LSMS under an abnormal or erroneous operating environment. The tests are divided into the following sub-categories:

Retry same/other host upon association establishment

Response time tests

Security Violation tests

Loss of Association

NPAC SMS Down

6.2 Requirements for Testing

6.2.1 General Requirements

Successful completion of the Managed Object Conformance testing and its prerequisites are required before starting the Association Management test phase. Also, a completed Testing Registration Form must be submitted to NeuStar, Inc prior to testing.

6.3 Scope of Testing

Association Management Testing is limited to those tests that can be performed without knowledge of the application. This does not address issues such as MIT recovery.

6.4 Assignment of Responsibilities

All associations between the SOA/LSMS and NPAC SMS are initiated by either the SOA or LSMS. The NPAC SMS never initiates an association request. Thus, the tests identified in this document for Association Management testing shall be initiated from the SOA and LSMS. A test report will be produced by the Test Center for each test performed. However, correct responses to the ACSE service requests must be verified by the Service Provider or agent thereof.

6.5 <u>Definition of Tests</u>

6.5.1 Retry Same/Other Host

These tests verify that the LSMS and/or SOA are able to re-send the ACSE A-Associate request to the appropriate host address when the NPAC SMS responds with an A-Associate reject containing one of the error codes "retry same host" or "retry other host". For "retry other host", the SUT is expected to re-issue the A-Associate request with the backup selectors and NSAP listed in Table 3.2.

6.5.2 Security Violation Tests

These tests check to see if the SOA and LSMS correctly detect and recover from security violations. The term "recover from" means abort the association, log the security violation, and (under certain conditions) re-establish the association using alternative security keys.

6.5.3 Loss of Association Tests

These tests check to see if the SOA and LSMS correctly react to the loss of an association between the SOA/LSMS and the NPAC SMS. The behavior of the SOA/LSMS with respect to association loss is documented in section 5.3 of the NPAC SMS Interoperable Interface Specification.

6.5.4 NPAC SMS Down Tests

This group of tests checks to see if the SOA and LSMS perform the correct sequence after detecting that the NPAC SMS is down. The behavior of the SOA/LSMS with respect to NPAC SMS downtime is documented in section 5.3 of the NPAC SMS Interoperable Interface Specification. This test group requires the provision of a second stack and NPAC SMS simulation environment. These tests will be accomplished by enabling a second instance of the NPAC SMS simulators on the same testing platform available in the TMN Test Center.

7 Application to Application Interoperability Testing

7.1 Overview

The objective of Application-to-Application testing is to verify that the applications implemented by the Service Providers, or the agents of service providers, on their respective SOA and LSMS systems satisfy the requirements for such applications as listed in the IIS and FRS. Determining the results of these tests requires prior knowledge of the scenarios under test, and a detailed analysis of the transactions exchanged between the SOA/LSMS and the NPAC SMS. This knowledge is expressed in the NPAC SMS Interoperable Interface Specification, and the Functional Requirement Specifications.

In contrast to a MOC testing campaign which addresses the behavior of a given MO in the context of a specific CMIP request, an A2A testing campaign will address complete transactions where each test case will require multiple CMIP operations occurring in a specific order, and may span multiple MO classes and scenarios as per Appendix B of the IIS. The utility of such testing will be underlined by the fact that the error handling capabilities of the SUT will be paid special attention during that campaign because of the flexibility afforded by the NPAC simulators. Every transaction (e.g. Action to create a subscription version) will have one test case representing a sunny day scenario where all operations proceed successfully according to the scenarios listed in the IIS. This will be true as long as that transaction's A2A test case does not duplicate a pre-existing MOC test case. Also, a given transaction will have at least one and probably more rainy day scenarios where one or more of the steps listed in the scenarios of the IIS, are dropped or executed with an intentional error in order to test the SOA/LSMS applications ability to detect and possibly cause the correction of such errors. The error handling capabilities which will be tested are those listed in the IIS and/or FRS or agreed to by the SP committee and subsequently incorporated in the IIS.

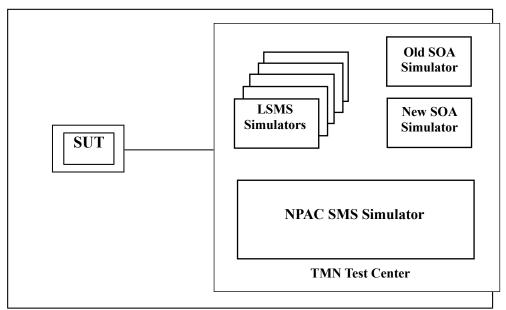


Figure 2 NPAC SMS Simulators for A2A testing

Other factors which guided the development of the App-to-App test plan are as follows:

- Additional behavior beyond that specified in the GDMO MOCS tables is required.
- The NPAC simulators must coordinate the behavior required by more than one MO at a time responding to, or initiating a transaction-dependent set of CMIP operations.
- The NPAC simulators must demonstrate the real NPAC's behavior as visible by more than one local carrier interface. E.g., some App-to-App test cases involve interactions between the NPAC and one or more SOAs (new, old, donor) and between the NPAC and one or more LSMSs. In this

- case the NPAC simulators will emulate the system(s) which are not under test as depicted in Figure 5.
- The App-to-App test cases must allow an SP to test their SOA and LSMS independently where the NPAC simulators will emulate the behavior of the other system which is not being tested.

Throughout this section, the term *Manager* is used to represent either the SOA or the manager role of the NPAC SMS or LSMS. The term *Agent* is used to represent either the agent role of the LSMS or that of the NPAC SMS.

7.2 Requirements for Testing

7.2.1 General Requirements

The A2A testing phase is a required prerequisite to Turn-up testing. A2A will concentrate the testing effort on the application as a whole (MOC tests the parts) and specifically on its ability to handle the error conditions and inopportune behaviour that it may encounter in real operating conditions. Successful completion of the all the prior ITP test phases (S2S, SEC, MOC, AMG) is required before embarking on the Application to Application testing phase.

7.2.2 Order of Tests

Due to the nature of the transactions implemented by this interface, tests must be performed in the order in which they are specified in the respective test case groups of this section. The App-to-App test cases will address the following scenario groups (transactions):

- 1. Audit scenarios.
- 2. Service Provider and Network Data scenarios
- 3. Subscription Version scenarios.
- 4. Miscellaneous scenarios.

7.3 Scope of Testing

The main focus of App-to-App testing is to check the implementation of the application behaviour specified in the requirements (IIS and FRS). The test cases will exercise those capabilities that can be derived directly from the GDMO Information Model and the Scenarios of the Message Flow Diagram section of the IIS. The ability of an application under test to handle the error conditions and inopportune behavior of the NPAC SMS and other simulated systems (i.e. a simulated old SOA, etc...) will be verified. This test plan does not require a service provider to cause its own SOA and/or LSMS to behave incorrectly or to be inconsistent with the requirements. However, if an SP elects to test such behavior, special arrangements may be made by the TMN Test Center to accommodate that request. It is outside the scope of App-to-App testing to verify a SUT's behaviour under real life operating conditions such as those offered by Turn-Up testing, i.e. the presence of multiple SOAs and LSMSs testing with a single NPAC SMS, or the use of Timers and Tunable Parameters as specified by the requirements. Finally, the Mass Update and NPA-NXX Split scenarios are outside the scope of the ITP since they involve processing internal to the NPAC which will not introduce any special CMIP behavior across the interface. For instance, the Mass Update will result in M-SET requests to the LSMS and attribute value change notifications to the SOA. This type of CMIP exchanges is covered by many MOC and A2A test cases. The NPA-NXX Split does not involve the exchange of any CMIP PDUs across the interface.

7.4 Assignment of Responsibilities

The implementation of the Application to Application test plan is the joint responsibility of the LSMS and/or SOA vendor and the TMN Test Center. LSMS/SOA initiated tests are the responsibility of the Service Provider or agent thereof, and NPAC SMS initiated tests are the responsibility of the Test Center.

Completion of the tests outlined in this section will be documented by the Test Center. However, determination of success for SOA or LSMS initiated tests will be left to the performer of the tests. Thus, App-to-App testing is limited to the correct processing (as per the IIS) of a transaction by the LSMS/SOA SUTs and the NPAC SMS Simulators.

7.5 Definition of Tests

The App-to-App test cases are defined in such a way as to address a given SOA or LSMS application singly. Test cases which target both the SOA and LSMS of a given service provider have not been defined here. The NPAC simulators will emulate all the other systems (Old/New SOA, LSMSs) required by a test case for a given SUT.

7.5.1 Valid Behavior Tests

Valid behavior test cases are designed to verify the capability of an application (SOA/LSMS) to correctly process a LNP transaction from start to finish. A typical valid behavior test case will execute the CMIP operations that constitute a complete transaction and will address the expected "positive" results of that CMIP sequence of requests and responses. A test case may span one or more of the scenarios listed in Appendix B of the IIS. For example, in order to create a new subscription version on the NPAC SMS by the new service provider, the set of CMIP requests and responses listed in the following scenarios of Appendix B of the IIS will be performed:

Subscription Version Create by the Initial SOA (New Service Provider)

Subscription Version Create by Second SOA (Old Service Provider)

Note that the Old Service Provider's SOA as well as any internal NPAC SMS processing (i.e. local M-CREATE) will be simulated by the NPAC simulators. If a Service Provider elects to test their LSMS at the same time, testing proceeds with the Activation by new SP and Active Subscription Version Create on LSMS scenarios. The expected result of that test case is the successful completion of the transaction to create a new subscription version. An example of a test case that addresses only one scenario is a SOA Initiated Audit carried out from the first CMIP request (i.e. the M-Create of the subscriptionAudit) to the last notification generated by that audit (i.e. M-Event-Report for object deletion). Again the focus here would be the successful assimilation of the Audit Results by the SOA.

Application to Application test cases for valid behavior will have the type A2A and the test number descriptor value of VAL. All the test identifiers for this category will start with the prefix **A2A.<System Under Test>.VAL**, where the possible values of <System Under Test> are shown in Table 7.1.

Table 7.1 - System Under Test	
SUT	DESCRIPTION
SOA	Service Provider's SOA
OSOA	Old Service Provider's SOA
NSOA	New Service Provider's SOA
DSOA	Donor Service Provider's SOA
NPAC	NPAC SMS
LSMS	Service Provider's LSMS

7.5.2 Inopportune Behavior Tests

Inopportune or invalid behavior tests are designed to verify the capability of the system under test (SOA/LSMS) to correctly detect and handle the error conditions described in the requirements. Some of the test cases included in this category go beyond the requirements in order to examine the SUT's responses to situations where the NPAC SMS exhibits unexpected behavior. For example, some test cases require the NPAC SMS simulator to drop one of the CMIP operations listed in a transaction's scenario. The objective of the invalid test cases is to address the adverse effects that error conditions may have on the SOA and LSMS by subjecting those systems to abnormal processing flows. The focus of these tests will be the semantics of a given transaction and not the syntax or semantics of the CMIP operations which constitute that transaction. Thus, the CMIP requests/responses required for those tests will always be made up of valid, well-formed PDUs. However, key steps in the scenario of performing a valid transaction (i.e. creating subscription versions or audits) will be either missing or executed erroneously and the SUT will be expected to perform properly (as per the requirements) in such situations.

Application to Application test cases for inopportune behavior will have the type A2A and the test number descriptor value of INV. All the test identifiers for this category will start with the prefix **A2A.**
 System Under Test>.INV, where the possible values of <System Under Test> are shown in Table 7.1 above.

8 Interoperability Testing Exit Criteria

8.1 Introduction

The purpose of this section is to describe the criteria for exiting the Interoperability Testing Stage and achieve "certification" for SOAs and LSMSs. The exit criteria defines the minimum set of requirements and test cases that must be adhered to and passed in order for a SOA or an LSMS, the System Under Test (SUT), to enter the Turn-Up testing stage and interoperate with the NPAC SMS.

The basis for developing the exit criteria is the Interoperability Test Plan, and every test case in this document has been analyzed for inclusion in the exit criteria. The methodology used in the analysis is to categorize the failure (i.e., fail a test case) into different severity levels. The following is the list of severity levels:

- Required: The test case is critical and must be addressed in order for the SUT to be certified. This
 corresponds to functionality whose absence would severely limit, if not prevent all together, the
 ability of a SUT to provide LNP service and interoperate with the other systems which compose
 the LNP network
- 2. Conditional: If the SUT is supporting the functionality, this equates to a Required test case.
- 3. **Optional**: The test case failure is minor, however any error should be corrected.

As a general approach, each test case will be identified with a severity level as guidance for exiting the Interoperability Test stage. However, the actual severity level of the failure will not be determined until the time of test execution. This is due to the need to perform the root-cause analysis of the failure; depending on the actual nature of the failure, the severity level may vary within any particular test case.

8.2 SUT Certification Guidelines

There are two phases to certification of an SUT: Meeting criteria for Entrance to Turn-Up Testing with the NPAC, and Meeting Criteria for Exit from Interoperability Testing and obtaining certification. The first phase, meeting criteria for Entrance to Turn-Up Testing is provided to allow parallel Turn-Up and Interoperability testing of less critical test cases. To compress testing schedules, an SUT is allowed to enter Turn-Up Testing at partial completion of Interoperability Testing.

An SUT is considered to meet criteria for Entrance to Turn-Up Testing if it meets the following criteria:

- Passed all Required test cases for the S2S phase.
- Passed all Required test cases for the SEC phase.
- Passed all Required test cases for the AMG phase.
- Passed all Required test cases for the MOC phase for required functionalities and for implemented optional functionalities.
- Passed all normal Required test cases for the A2A phase for required functionalities and for implemented optional functionalities.

An SUT is considered to meet criteria for **Exit from Interoperability Testing** and obtain certification to interoperate with the NPAC SMS if it meets the following criteria:

- Passed all Required test cases for the S2S phase.
- Passed all Required test cases for the SEC phase.

- Passed all Required test cases for the AMG phase.
- Passed all Required test cases for the MOC phase for required functionalities and for
 implemented optional functionalities. For test cases related to implemented optional functionalities
 that fail or cannot be executed, the functionalities cannot be used with the NPAC SMS until the
 required test cases are passed.

For the A2A phase:

- Executed all test cases related to implemented functionalities. All severity level test cases are executed to provide a base line of known behaviors of supported functionalities.
- Passed all **Required** test cases and all **CONDITIONAL** test cases that the SUT supports the functionality.
- In A2A test cases where one or more of the operations that make up the transaction are optional, the SUT need not run the test case if it does not intend to support the optional functionality. Examples of this type are the Service Provider and Network Data A2A test cases where the operations performed by the LSMS or SOA are optional.

9 Stack to Stack Test Cases

9.1 Test Cases

9.1.1 S2S.SOA.PING and S2S.LSMS.PING

Purpose	To verify that the IP layer is functioning properly.
Severity	0
Severity Explanation	Does not impact ability to provide service. No requirements for functionality. May be waived if System Software used does not support/provide a ping utility.
Prerequisites	No association established between the SOA/LSMS and NPAC SMS Simulator.
Procedure	 SOA/LSMS issues a ping. NPAC SMS Simulator responds to ping.
Expected Results	Ping is successful.

9.1.2 S2S.SOA.FTP and S2S.LSMS.FTP

Purpose	To verify that the TCP layer is functioning properly.
Severity	R
Severity Explanation	Direct impact on ability to accomplish downloads. May also be used instead of "ping" as a diagnostic tool to test TCP/IP part of stack.
Prerequisites	No association established between the SOA/LSMS and NPAC SMS Simulator.
Procedure	 SOA/LSMS issues an FTP open with user and password NPAC SMS Simulator accepts FTP login request.
Expected Results	FTP login is successful.

9.1.3 S2S.SOA.VAL.ASSOC and S2S.LSMS.VAL.ASSOC

Purpose	To verify that the SOA/LSMS can issue an ACSE association request and establish an association with the NPAC SMS Simulator.
Severity	R
Severity Explanation	Severe impact on ability to provide service.
Prerequisites	No association established between the SOA/LSMS and NPAC SMS Simulator. System clocks synchronized to within 5 minutes.
Procedure	 SOA/LSMS issues association request (AARQ). NPAC SMS Simulator accepts association indication. NPAC SMS Simulator issues an association response (AARE). SOA/LSMS accepts association confirmation.

Expected Results	Association is correctly established between SOA/LSMS and NPAC
	SMS Simulator.

9.1.4 S2S.SOA.VAL.RELES and S2S.LSMS.VAL.RELES

Purpose	To verify that the SOA/LSMS can issue an ACSE association release request.
Severity	R
Severity Explanation	Direct impact on ability to provide service. A-ABORT may be used to provide this functionality (See S2S.SOA.Val.Abort).
Prerequisites	An association has been established between the SOA/LSMS and the NPAC SMS Simulator.
Procedure	 SOA/LSMS issues an association release request (RLRQ). NPAC SMS Simulator accepts the association release indication. NPAC SMS Simulator issues an association release response (RLRE). SOA/LSMS accepts the association release confirmation.
Expected Results	Association between SOA/LSMS and NPAC SMS Simulator is correctly released.

9.1.5 S2S.SOA.VAL.RELES.BYNPAC and S2S.LSMS.VAL.RELES.BYNPAC

Purpose	To verify that the NPAC SMS Simulator can terminate an ACSE association established by the SOA/LSMS
Severity	0
Severity Explanation	Does not impact ability to provide service. No requirements.
Prerequisites	An association has been established between the SOA/LSMS and the NPAC SMS Simulator.
Procedure	 NPAC SMS Simulator issues an association release request (RLRQ). SOA/LSMS accepts the association release indication. SOA/LSMS issues an association release response (RLRE). NPAC SMS Simulator accepts the association release confirmation.
Expected Results	Association between SOA/LSMS and NPAC SMS Simulator is correctly released.

9.1.6 S2S.SOA.VAL.ABORT and S2S.LSMS.VAL.ABORT

Purpose	To verify that the SOA/LSMS can issue an ACSE abort request.
Severity	R
Severity Explanation	Direct impact on ability to provide service. May be used instead of Unbind (S2S.SOA.VAL.RELES).
Prerequisites	An association has been established between the SOA/LSMS and

	the NPAC SMS Simulator.
Procedure	 SOA/LSMS issues abort request (ABRT). NPAC SMS accepts abort indication.
Expected Results	Association between SOA/LSMS and NPAC SMS Simulator is no longer established.

9.1.7 S2S.SOA.VAL.ABORT.BYNPAC and S2S.LSMS.VAL.ABORT.BYNPAC

Purpose	To verify that the NPAC SMS Simulator can terminate an ACSE association established by the SOA/LSMS with an ACSE abort request.
Severity	R
Severity Explanation	Direct impact on ability to provide service.
Prerequisites	An association has been established between the SOA/LSMS and the NPAC SMS Simulator.
Procedure	NPAC SMS Simulator issues abort request (ABRT).
	2. SOA/LSMS accepts abort indication.
Expected Results	Association between SOA/LSMS and NPAC SMS Simulator is no
-	longer established.

10 Security Test Cases

10.1 Group A Security Test Cases

10.1.1 SEC.SOA.VAL.ASSOC.NOSIG and SEC.LSMS.VAL.ASSOC.NOSIG

Purpose	To verify that the SOA/LSMS can issue an ACSE association request with the access control field populated with the proper values for all fields except for signature and establish an association with the NPAC SMS Simulator.
Severity	0
Severity Explanation	No impact on ability to provide service, available for convenience only to allow a phased approach to the implementation of the security protocol. Function will never be used outside this test.
Prerequisites	No association established between the SOA/LSMS and NPAC SMS Simulator. System clocks synchronized to within 5 minutes. Access Control attribute set according to Chapter 5 of NPAC SMS Interoperable Interface Specification. The Signature field is not populated.
Procedure	 SOA/LSMS issues the association request (AARQ). NPAC SMS Simulator accepts association indication. NPAC SMS Simulator issues an association response (AARE). SOA/LSMS accepts association confirmation.
Expected Results	Association is correctly established between SOA/LSMS and NPAC SMS Simulator.

10.1.2 SEC.SOA.INV.ASSOC.INVSYS and SEC.LSMS.INV.ASSOC.INVSYS

Purpose	Verify SOA/LSMS aborts the association when the NPAC SMS Simulator replies with an invalid System ID.
Severity	R
Severity Explanation	Direct impact on ability to provide a secure interface.
Prerequisites	No association established between the SOA/LSMS and NPAC SMS Simulator. System clocks synchronized to within 5 minutes. Access Control attribute set according to Chapter 5 of NPAC SMS Interoperable Interface Specification. The Signature field is not populated.
Procedure	 SOA/LSMS issues association request. NPAC SMS Simulator accepts association indication. NPAC SMS Simulator issues an association response with invalid systemId. SOA/LSMS aborts association.
Expected Results	SOA/LSMS aborts association with no reason given.

10.1.3 SEC.SOA.INV.ASSOC.INVT and SEC.LSMS.INV.ASSOC.INVT

Purpose	Verify SOA/LSMS aborts the association when the NPAC SMS Simulator replies with delayed CMIP Departure time.
Severity	R
Severity Explanation	Direct impact on ability to provide a secure interface.
Prerequisites	No association established between the SOA/LSMS and NPAC SMS Simulator.
	System clocks synchronized to within 5 minutes.
	Access Control attribute set according to Chapter 5 of NPAC SMS Interoperable Interface Specification. The Signature field is not populated.
Procedure	SOA/LSMS issues association request NPAC SMS Simulator issues an association response with delayed CMIP Departure time. SOA/LSMS aborts association
Expected Results	SOA/LSMS aborts association with no reason given.

10.1.4 SEC.SOA.INV.ASSOC.SEQ and SEC.LSMS.INV.ASSOC.SEQ

Purpose	To verify that the SOA/LSMS aborts the association when the NPAC SMS Simulator replies with an out-of-order sequence number.
	number.
Severity	R
Severity Explanation	Direct impact on ability to provide a secure interface.
Prerequisites	No association established between the SOA/LSMS and NPAC SMS Simulator.
	System clocks synchronized to within 5 minutes.
	Access Control attribute set according to Chapter 5 of NPAC SMS Interoperable Interface Specification. The Signature field is not populated.
Procedure	SOA/LSMS issues association request.
	2. NPAC SMS Simulator accepts association indication.
	3. NPAC SMS Simulator issues an association response with non-
	zero sequence number.
	4. SOA/LSMS aborts association.
Expected Results	SOA/LSMS aborts association with no reason given.

10.2 Group B Test Cases

10.2.1 SEC.SOA.VAL.ASSOC and SEC.LSMS.VAL.ASSOC

Purpose	To verify that the SOA/LSMS can issue an ACSE association

	request with the access control field populated with the proper values for all fields and establish an association with the NPAC SMS Simulator.
Severity	R
Severity Explanation	Direct impact on ability to provide service. Requirements exists.
Prerequisites	No association established between the SOA/LSMS and NPAC SMS Simulator.
	System clocks synchronized to within 5 minutes.
	Access Control attribute set according to Chapter 5 of NPAC SMS Interoperable Interface Specification.
	Encrypted Signature is included.
Procedure	 SOA/LSMS issues association request (AARQ). NPAC SMS Simulator accepts association indication. NPAC SMS Simulator issues an association response (AARE). SOA/LSMS accepts association confirmation.
Expected Results	Association is correctly established between SOA/LSMS and NPAC SMS Simulator.

10.2.2 SEC.SOA.INV.ASSOC.INVK and SEC.LSMS.INV.ASSOC.INVK

Purpose	Verify SOA/LSMS aborts the association when the NPAC SMS Simulator replies with an invalid Security Key.
Severity	R
Severity Explanation	Direct impact on ability to provide a secure interface.
Prerequisites	No association established between the SOA/LSMS and NPAC SMS Simulator.
	System clocks synchronized to within 5 minutes.
	Access Control attribute set according to Chapter 5 of NPAC SMS Interoperable Interface Specification.
	Encrypted Signature is included.
Procedure	SOA/LSMS issues association request
	2. NPAC SMS Simulator accepts association indication.
	3. NPAC SMS Simulator issues an association response with
	invalid keyId or listId.
	4. SOA/LSMS aborts association.
Expected Results	SOA/LSMS aborts association with no reason given.

10.2.3 SEC.SOA.INV.ASSOC.INVSIG and SEC.LSMS.INV.ASSOC.INVSIG

Purpose	To verify that the SOA/LSMS rejects an ACSE association when the response of the NPAC SMS Simulator contains an access control field with an invalid signature.
Severity	R

Severity Explanation	Direct impact on ability to provide a secure interface.
Prerequisites	No association established between the SOA/LSMS and NPAC SMS Simulator.
	System clocks synchronized to within 5 minutes.
	Access Control attribute set according to Chapter 5 of NPAC SMS Interoperable Interface Specification
	Encrypted Signature is included.
Procedure	 SOA/LSMS issues association request (AARQ). NPAC SMS Simulator accepts association indication. NPAC SMS Simulator issues an association response with invalid signature. SOA/LSMS aborts association.
Expected Results	SOA/LSMS aborts association with no reason given.

10.2.4 SEC.SOA.INV.NOT.INVSIG and SEC.LSMS.INV.NOT.INVSIG

Purpose	To verify that the SOA/LSMS aborts an association when it receives a notification from the NPAC SMS Simulator which contains an access control field with an invalid signature.
Severity	R
Severity Explanation	Direct impact on ability to provide a secure interface. Verifies security violation handling at CMIP M-EVENT-REPORT level.
Prerequisites	An association is established between the SOA/LSMS and NPAC SMS Simulator. System clocks synchronized to within 5 minutes.
Procedure	 NPAC SMS Simulator sends the lnpNPAC-SMS-Operational- Information notification with an invalid signature field. SOA/LSMS detects the invalid signature and aborts association.
Expected Results	SOA/LSMS aborts association with no reason given.

10.2.5 SEC.SOA.INV.CRETE.INVSEQ and SEC.LSMS.INV.CREATE.INVSEQ

Purpose	To verify that the SOA/LSMS aborts an association when it receives a create request from the NPAC SMS Simulator which contains an access control field with an invalid sequence number.
Severity	R
Severity Explanation	Direct impact on ability to provide a secure interface. Verifies security violation handling at CMIP M-CREATE level.
Prerequisites	An association is established between the SOA/LSMS and NPAC SMS Simulator. System clocks synchronized to within 5 minutes
Procedure	NPAC SMS Simulator sends a create request with an invalid sequence number.

	2. SOA/LSMS detects the invalid sequence number and aborts the
	association.
Expected Results	SOA/LSMS aborts association with no reason given.

10.2.6 SEC.SOA.INV.SET.INVSIG and SEC.LSMS.INV.SET.INVSIG

Purpose	To verify that the SOA/LSMS aborts an association when it receives a set request from the NPAC SMS, which contains an access control field with an invalid signature.
Severity	R
Severity Explanation	Direct impact on ability to provide a secure interface. Verifies security violation handling at CMIP M-SET level.
Prerequisites	An association is established between the SOA/LSMS and NPAC SMS Simulator System clocks synchronized to within 5 minutes.
Procedure	 NPAC SMS Simulator sends a set request with an invalid signature. SOA/LSMS detects the invalid signature and aborts the association.
Expected Results	LSMS aborts association with no reason given.

10.2.7 SEC.SOA.INV.ACTION.INVSYS and SEC.LSMS.INV.ACTION.INVSYS

Purpose	To verify that the SOA/LSMS aborts an association when it receives an action request from the NPAC SMS Simulator, which contains an access control field with an invalid system ID.
Severity	R
Severity Explanation	Direct impact on ability to provide a secure interface. Verifies security violation handling at CMIP M-ACTION level.
Prerequisites	An association is established between the SOA/LSMS and NPAC SMS Simulator. System clocks synchronized to within 5 minutes.
Procedure	 NPAC SMS Simulator sends an action request with an invalid system ID. SOA/LSMS detects the invalid system ID and aborts the association.
Expected Results	SOA/LSMS aborts association with no reason given.

10.2.8 SEC.SOA.INV.GET.INVT and SEC.LSMS.INV.GET.INVT

Purpose	To verify that the SOA/LSMS aborts an association when it receives a get request from the NPAC SMS, which contains an access control field with an invalid CMIP Departure Time.
Severity	R

Severity Explanation	Direct impact on ability to provide a secure interface. Verifies security violation handling at CMIP M-GET level.
Prerequisites	An association is established between the SOA/LSMS and NPAC SMS Simulator. System clocks synchronized to within 5 minutes.
Procedure	 NPAC SMS Simulator sends a get request with an invalid CMIP Departure Time. SOA/LSMS detects the invalid CMIP Departure Time and aborts the association.
Expected Results	SOA/LSMS aborts association with no reason given.

10.2.9 SEC.SOA.INV.DELETE.INVSIG and SEC.LSMS.INV.DELETE.INVSIG

Purpose	To verify that the SOA/LSMS aborts an association when it receives a delete request from the NPAC SMS, which contains an access control field with an invalid signature.
Severity	R
Severity Explanation	Direct impact on ability to provide a secure interface. Verifies security violation handling at CMIP M-DELETE level.
Prerequisites	An association is established between the SOA/LSMS and NPAC SMS Simulator. System clocks synchronized to within 5 minutes.
Procedure	 NPAC SMS Simulator sends a delete request with an invalid signature. SOA/LSMS detects the invalid signature and aborts the association.
Expected Results	SOA/LSMS aborts association with no reason given.

10.2.10 SEC.SOA.INV.ASSOC.ASSOCSP.INVSYS

Purpose	Verify SOA aborts the association when the NPAC SMS Simulator replies with an invalid System ID, the system id of the associated service provider.
Severity	С
Severity Explanation	This test case must be executed if the SOA is supporting associated service provider functionality.
Prerequisites	No association established between the SOA and the NPAC SMS Simulator. System clocks synchronized to within 5 minutes. Access Control attribute set according to Chapter 5 of NPAC SMS Interoperable Interface Specification. The Signature field is not populated. SystemId Specified is an invalid SystemId or if supported by the SOA is a SystemId of an associated service provider defined in the NPAC SMS Simulator.

Procedure	SOA issues association request
	The NPAC SMS Simulator accepts association indication.
	The NPAC SMS Simulator issues an association response with invalid systemId.
	1. SOA aborts association.
Expected Results	SOA aborts association with no reason given.

11 SOA to NPAC MOC Test Cases

11.1 InpNPAC-SMS

МО	InpNPAC-SMS
Purpose	This section contains the test cases for the lnpNPAC-SMS Managed Object Class pertaining to the SOA to NPAC SMS Interface, as part of the Managed Object Conformance testing of the NPAC SMS Interoperability Test.
Prerequisite	A SOA Management association function is established. A lnpNPAC-SMS Managed Object Instance has been inherently created.

11.1.1 MOC.SOA.CAP.OP.GET.InpNPAC-SMS

Purpose	To test the SOA's ability to GET all the attributes of the lnpNPAC-
*	SMS managed object instance.
Severity	0
Severity Explanation	SOA does not need to issue this request to provide LNP service. NPAC SMS name is the only attribute in this Managed Object and its value is available in the specifications.
Prerequisites	A lnpNPAC-SMS managed object instance has been inherently created.
Procedure	 SOA issues a valid M-GET request to retrieve all the attributes for the lnpNPAC-SMS object. NPAC SMS Simulator responds with the M-GET result and all the attributes.
Expected Results	The SOA issues a valid M-GET request and retrieves the attributes successfully from the NPAC SMS Simulator.

11.1.2 MOC.SOA.CAP.NOT.InpNPAC-SMS-Operational-Information

Purpose	To test the SOA's ability to receive the lnpNPAC-SMS-Operational-Information notification.
Severity	R
Severity Explanation	SOA is required to handle this notification which informs it of
	NPAC down time.
Prerequisites	A lnpNPAC-SMS managed object instance has been inherently
	created.
Procedure	1. NPAC SMS Simulator issues the lnpNPAC-SMS-Operational-
	Information notification.
	2. SOA confirms the M-EVENT-REPORT.
Expected Results	The SOA responds with a valid M-EVENT-REPORT confirmation.

11.1.3 MOC.SOA.INV.NOT.InpNPAC-SMS-Operational-Information

Purpose	To test the SOA's ability to handle an invalid M-EVENT-REPORT
	for the lnpNPAC-SMS-Operational-Information notification. This

	will be accomplished by setting the stop time attribute of that
	notification to a value that is before the start time.
Severity	0
Severity Explanation	No impact to providing LNP service. Can be used to verify error
	handling by the SOA.
Prerequisites	A lnpNPAC-SMS managed object instance has been inherently
,	created.
Procedure	1. NPAC SMS Simulator issues the lnpNPAC-SMS-Operational-
	Information notification with stop time less than the start time.
	2. SOA returns invalidArgumentValueEr error.
Expected Results	The SOA will correctly handle the invalid M-EVENT-REPORT
	received from the NPAC SMS Simulator and return the
	invalidArgumentValueEr error.

11.1.4 MOC.SOA.CAP.NOT.subscriptionVersionNewNPA-NXX

Purpose	To test the SOA's ability to receive the M-EVENT-REPORT for subscriptionVersionNewNPA-NXX notification.
Severity	C
Severity Explanation	Required if the SOA is supporting numberPoolBlocks.
Prerequisites	A InpNPAC-SMS managed object instance has been inherently created.
Procedure	 NPAC SMS Simulator issues the subscriptionVersionNewNPA- NXX notification. SOA responds with M-EVENT-REPORT confirmation.
Expected Results	The SOA responds with a valid M-EVENT-REPORT confirmation.

11.1.5 MOC.SOA.INV.GET.InpNPAC-SMS

Purpose	To test the SOA's ability to handle the M-GET error response getListError error to a previously initiated and valid M-GET request for all the attributes of the lnpNPAC-SMS object.
Severity	С
Severity Explanation	Allows SOA to verify error handling.
Prerequisites	MOC.SOA.CAP.OP.GET.lnpNPAC-SMS
Procedure	 SOA issues a valid M-GET request to retrieve all the attributes from the lnpNPAC-SMS managed object instance. NPAC SMS Simulator responds with the getListError error.
Expected Results	The SOA correctly handles the error response getListError from the NPAC SMS Simulator.

11.1.6 MOC.SOA.INV.NOT.subscriptionVersionNewNPA-NXX

Purpose	To test the SOA's ability to handle an invalid M-EVENT-REPORT for the subscriptionVersionNewNPA-NXX notification. This will be accomplished by sending the subscriptionVersionNewNPA-NXX notification with an invalid NPA-NXX value.
Severity	0
Severity Explanation	Required if the SOA is supporting numberPoolBlocks.
Prerequisites	A lnpNPAC-SMS managed object instance has been inherently

	created.
Procedure	1. NPAC SMS Simulator issues the subscriptionVersionNewNPA-
	NXX notification.
	2. SOA responds with an invalidArgumentValue error.
Expected Results	The SOA will correctly handle the invalid M-EVENT-REPORT
,	received from the NPAC SMS Simulator and return the appropriate
	error.

11.1.7 MOC.SOA.CAP.ACT.InpNotificationRecovery

Purpose	Verify SOA can successfully process the lnpNotificationRecovery action. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	С
Severity Explanation	This test case must be executed if the service provider SOA supports notification recovery. The SOA will recover either the "individual" notifications or the "range/list" version of the notifications.
Prerequisites	Notifications exist of each type of notification that can be recovered for the requesting service provider. If the "range/list" version of the notifications is being recovered, there must be notifications for each type that use both the "list-data" and "range-data" of the RangeNotify-TN-ID-Info or RangeNotify-ID-Info ASN.1 CHOICE field. There are a total of 13 notifications to be recovered if "individual" subscription version notifications are being recovered and 22 total notifications if "range/list" subscription version notifications are being recovered. See section 5.5.1-2 for an entire list.
Procedure	SOA sends the InpNotificationRecovery action to the NPAC SMS Simulator to start notification data download for a specified period of time. NPAC SMS Simulator responds with an M-ACTION InpNotificationRecovery response.
Expected Results	SOA sends the M-ACTION and receives action response with the notification data.

11.1.8 MOC.SOA.INV.ACT.InpNotificationRecovery

Purpose	Verify SOA can successfully process an error response to the
,	InpNotificationRecovery action.
Severity	С
Severity Explanation	This test case must be executed if the service provider SOA supports notification recovery.
Prerequisites	
Procedure	 SOA sends the InpNotificationRecovery action to the NPAC SMS Simulator to start notification data download for a specified period of time. NPAC SMS Simulator responds with error status 'failed'.
Expected Results	SOA sends the M-ACTION request and receives the action response with the error successfully.

11.1.9 MOC.SOA.CAP.OP.ACT.InpRecoveryComplete

Purpose	Verify the SOA can indicate that the recovery is complete.
Severity	С
Severity Explanation	This test case must be executed if the service provider SOA supports subscription, network data or notification recovery.
Prerequisites	
Procedure	 SOA sends the InpRecoveryComplete action to the NPAC SMS Simulator. NPAC SMS Simulator responds with M-ACTION InpRecoveryComplete response.
Expected Results	SOA sends the M-ACTION and receives the action response successfully.

11.1.10 MOC.SOA.INV.ACT.InpRecoveryComplete

Purpose	To test the SOA's ability to handle an error response for an M-ACTION request. This will be accomplished by returning the noSuchAction error in response to the lnpRecoveryComplete action.
Severity	С
Severity Explanation	Required if the SOA supports network or notification data recovery.
Prerequisites	MOC.SOA.CAP.ACT.lnpRecoveryComplete
Procedure	 SOA sends the valid lnpRecoveryComplete M-ACTION request to the lnpNPAC-SMS object. NPAC SMS Simulator responds with a noSuchAction error.
Expected Results	The SOA will correctly handle the error response received from the NPAC SMS Simulator.

11.2 InpServiceProvs

МО	InpServiceProvs
Purpose	This section contains the test cases for the InpServiceProvs Managed Object Class pertaining to the SOA to NPAC SMS Interface, as part of the Managed Object Conformance testing of the NPAC SMS Interoperability Test.
Prerequisite	A Service Provider and Network Data Management is established. A lnpNPAC-SMS and a lnpServiceProvs Managed Object Instances have been inherently created.

11.2.1 MOC.SOA.CAP.OP.GET.InpServiceProvs

Purpose	To test the SOA's ability to GET all the attributes of the
•	InpServiceProvs managed object instance.
Severity	0
Severity Explanation	May be performed to verify the lnpServiceProvs managed object
	instance.
Prerequisites	A lnpServiceProvs managed object instance has been inherently
•	created.
Procedure	1. SOA issues a valid M-GET request to retrieve all the attributes
	from the lnpServiceProvs managed object instance.
	2. NPAC SMS Simulator responds with M-GET result and all

	attributes.
Expected Results	The SOA issues a valid M-GET request and retrieves the attributes successfully from the NPAC SMS Simulator.

11.2.2 MOC.SOA.INV.GET.InpServiceProvs

Purpose	To test the SOA's ability to handle the M-GET error response
	getListError error to a previously initiated and valid M-GET request
	for all the attributes of the lnpServiceProvs object.
Severity	0
Severity Explanation	Allows SOA to verify error handling.
Prerequisites	MOC.SOA.CAP.OP.GET.lnpServiceProvs
Procedure	1. SOA issues a valid M-GET request to retrieve the all attributes
	from the lnpServiceProvs managed object instance.
	2. NPAC SMS Simulator responds with the getListError error.
Expected Results	The SOA correctly handles the error response getListError from the
,	NPAC SMS Simulator.

11.3 InpAudits

МО	InpAudits
Purpose	This section contains the test cases for the InpAudits Managed Object Class pertaining to the SOA to NPAC SMS Interface, as part of the Managed Object Conformance testing of the NPAC SMS Interoperability Test.
Prerequisite	A SOA Management association function is established. A lnpNPAC-SMS and a lnpAudits Managed Object Instances have been created inherently.

11.3.1 MOC.SOA.CAP.OP.GET.InpAudits

Purpose	To test the SOA's ability to GET all the attributes of the lnpAudits
	managed object instance.
Severity	0
Severity Explanation	If audits are supported, SOA may perform to verify the lnpAudits object.
Prerequisites	A lnpAudits managed object instance has been inherently created.
Procedure	 SOA issues a valid M-GET request to retrieve all the attributes of the lnpAudits object. NPAC SMS Simulator responds with the M-GET result containing all attributes.
Expected Results	The SOA issues a valid M-GET request and retrieves the attributes successfully from the NPAC SMS Simulator.

11.3.2 MOC.SOA.INV.GET.InpAudits

Purpose	To test the SOA's ability to handle the M-GET error response getListError error to a previously initiated and valid M-GET request for all the attributes of the lnpAudits object.
Severity	0

Severity Explanation	Allows SOA to verify error handling.
Prerequisites	MOC.SOA.CAP.OP.GET.lnpAudits
Procedure	SOA issues a valid M-GET request to retrieve the all attributes from the lnpAudits object.
	2. NPAC SMS Simulator responds with the getListError error.
Expected Results	The SOA correctly handles the error response getListError from the NPAC SMS Simulator.

11.4 InpSubscriptions

МО	InpSubscriptions
Purpose	This section contains the test cases for the lnpSubscriptions Managed Object Class pertaining to the SOA to NPAC SMS Interface, as part of the Managed Object Conformance testing of the NPAC SMS Interoperability Test.
Prerequisite	A SOA Management association function is established. A lnpNPAC-SMS and Managed Object Instances have been created inherently.

11.4.1 MOC.SOA.CAP.OP.GET.InpSubscriptions

Purpose	To test the SOA's ability to GET all the attributes of the
*	InpSubscriptions managed object instance.
Severity	0
Severity Explanation	Can be used for the SOA to verify the lnpSubscriptions object.
Prerequisites	A InpSubscriptions managed object instance has been inherently
•	created.
Procedure	1. SOA issues a valid M-GET request to retrieve all attributes.
	2. NPAC SMS Simulator responds with the M-GET result
	containing all attributes.
Expected Results	The SOA issues a valid M-GET request and retrieves the attributes
	successfully from the NPAC SMS Simulator.

11.4.2 MOC.SOA.CAP.ACT.subscriptionVersionNewSP-Create-Initial

Purpose	To test the SOA's ability to do the initial create of a subscriptionVersionNPAC object as the new service provider. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	R
Severity Explanation	Direct impact on providing LNP service.
Prerequisites	A lnpSubscriptions managed object instance has been inherently created.
Procedure	 SOA issues the M-ACTION subscriptionVersionNewSP-Create action. NPAC SMS Simulator responds with a successful M-ACTION reply. NPAC SMS Simulator issues the objectCreation or subscriptionVersionRangeObjectCreation M-EVENT-REPORT.

11.4.3 MOC.SOA.CAP.ACT.subscriptionVersionOldSP-Create-Initial

	·
Purpose	To test the SOA's ability to do the initial create of a subscriptionVersionNPAC object as the old service provider. This
	test case must be executed twice if a SOA is supporting both
	"individual" and "range/list" notifications.
	individual and range/fist notifications.
Severity	R
Severity Explanation	Direct impact on providing LNP service.
Prerequisites	A lnpSubscriptions managed object instance has been inherently
	created.
Procedure	SOA issues the M-ACTION subscriptionVersionOldSP-Create action.
	NPAC SMS Simulator responds with a successful M-ACTION reply.
	3. NPAC SMS Simulator issues the objectCreation or
	subscriptionVersionRangeObjectCreation M-EVENT-REPORT.
	4. SOA confirms the M-EVENT-REPORT.
Expected Results	The SOA sends a valid M-ACTION request and receives the NPAC
•	SMS Simulator's M-ACTION response and M-EVENT-REPORT
	properly.

11.4.4 MOC.SOA.CAP.ACT.subscriptionVersionNewSP-Create-Second

Purpose	To test the SOA's ability to do the second create of a subscriptionVersionNPAC object as the new service provider. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	R
Severity Explanation	Direct impact on providing LNP service.
Prerequisites	MOC.SOA.CAP.ACT.subscriptionVersionNewSP-Create-Initial
Procedure	 SOA issues the M-ACTION subscriptionVersionNewSP-Create action. NPAC SMS Simulator responds with a successful M-ACTION reply. NPAC SMS Simulator issues the attributeValueChange or subscriptionVersionAttributeValueChange M-EVENT-REPORT. SOA confirms the M-EVENT-REPORT.
Expected Results	The SOA sends a valid M-ACTION request and receives the NPAC SMS Simulator's M-ACTION response and M-EVENT-REPORT properly.

11.4.5 MOC.SOA.CAP.ACT.subscriptionVersionOldSP-Create-Second

Purpose	To test the SOA's ability to do the second create of a subscriptionVersionNPAC object when as the old service provider. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	R
Severity Explanation	Direct impact on providing LNP service.
Prerequisites	MOC.SOA.CAP.ACT.subscriptionVersionOldSP-Create-Initial
Procedure	 SOA issues the M-ACTION subscriptionVersionOldSP-Create action. NPAC SMS Simulator responds with a successful M-ACTION reply. NPAC SMS Simulator issues the attributeValueChange or subscriptionVersionAttributeValueChange M-EVENT-REPORT. SOA confirms the M-EVENT-REPORT.
Expected Results	The SOA sends a valid M-ACTION request and receives the NPAC SMS Simulator's M-ACTION response and M-EVENT-REPORT properly.

${\tt 11.4.6\ MOC.SOA.CAP.ACT. subscription Version Activate-Version Id}$

Purpose	To test the SOA's ability to activate a subscription version using the subscriptionVersionId. This will be accomplished by the SOA issuing the confirmed M-ACTION request for subscriptionVersionActivate and subsequently handling the NPAC SMS Simulator's responses to that action, i.e. the M-ACTION response and the M-EVENT-REPORT for subscriptionVersionStatusAttributeValueChange.
Severity	С
Severity Explanation	Direct impact on providing LNP service. SOA must activate by TN or subscriptionVersionId.
Prerequisites	
Procedure	 SOA issues a valid subscriptionVersionActivate and specifies the subscriptionVersionId. NPAC SMS Simulator responds with a successful M-ACTION reply.
Expected Results	The SOA issues a valid M-ACTION request and receives the NPAC SMS Simulator's M-ACTION response.

11.4.7 MOC.SOA.CAP.ACT.subscriptionVersionActivate-TN

Purpose	To test the SOA's ability to activate a subscription version using a single subscriptionVersionTN.
Severity	С
Severity Explanation	Direct impact on providing LNP service. SOA must activate by TN or subscriptionVersionId.
Prerequisites	
Procedure	SOA issues a valid subscriptionVersionActivate and specifies the subscriptionVersionTN.

	2. NPAC SMS Simulator responds with a successful M-ACTION
	reply.
Expected Results	The SOA issues a valid M-ACTION request and receives the NPAC
•	SMS Simulator's M-ACTION response.

11.4.8 MOC.SOA.CAP.ACT.subscriptionVersionActivate-TNRange

Purpose	To test the SOA's ability to activate a subscription version using a range of subscriptionVersionTNs.
Severity	С
Severity Explanation	Required if the SOA is supporting the activiation of a range of subscription versions using the subscriptionVersionActivate action Direct impact on providing LNP service. Requirement exists however functionality can be achieved by issuing single TN activate requests.
Prerequisites	
Procedure	 SOA issues a valid subscriptionVersionActivate and specifies a range of subscriptionVersionTNs. NPAC SMS Simulator responds with a successful M-ACTION reply.
Expected Results	The SOA issues a valid M-ACTION request and receives the NPAC SMS Simulator's M-ACTION response.

11.4.9 MOC.SOA.CAP.ACT.subscriptionVersionModify

Purpose	To test the SOA's ability to modify an active subscription version.
Severity	R
Severity Explanation	Direct impact on providing LNP service. Requirement exists which can be satisfied using M-SET only (test case in subscriptionVersionNPAC).
Prerequisites	
Procedure	SOA issues a valid subscriptionVersionModify M-ACTION and specifies either the subscriptionVersionId or subscriptionVersionTN. NPAC SMS Simulator responds with a successful M-ACTION response.
Expected Results	The SOA issues a valid M-ACTION request and receives the NPAC SMS Simulator's M-ACTION response and M-EVENT-REPORT properly.

11.4.10 MOC.SOA.CAP.ACT.subscriptionVersionCancel

Purpose	To test the SOA's ability to cancel a subscription version. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	R
Severity Explanation	Direct impact on providing LNP service.
Prerequisites	MOC.SOA.CAP.ACT.subscriptionVersionOldSP-Create-Initial or

	MOC.SOA.CAP.ACT.subscriptionVersionOldSP-Create-Second
Procedure	SOA issues a valid subscriptionVersionCancel M-ACTION request.
	2. NPAC SMS Simulator responds with a successful M-ACTION reply.
	3. NPAC SMS issues the
	subscriptionVersionStatusAttributeValueChange or
	subscriptionVersionRangeStatusAttributeValueChange
	specifying the subscriptionVersionStatus as 'cancel-pending'.
	4. SOA confirms the M-EVENT-REPORT.
Expected Results	The SOA issues a valid M-ACTION request and receives the NPAC
•	SMS Simulator's M-ACTION response and M-EVENT-REPORT
	properly.

11.4.11 MOC.SOA.CAP.ACT.subscriptionVersionOldSP-CancellationAcknowledge

Purpose	To test the SOA's ability to acknowledge the cancellation of a
	cancel-pending subscription version after the new service provider
	has requested the action to cancel. This test case must be executed
	twice if a SOA is supporting both "individual" and "range/list"
	notifications.
Severity	R
Severity Explanation	Direct impact on providing LNP service.
Prerequisites	MOC.SOA.CAP.ACT.subscriptionVersionCancel
Procedure	NPAC SMS Simulator issues the
	subscriptionVersionStatusAttributeValueChange or
	subscriptionVersionRangeStatusAttributeValueChange with the
	subscriptionStatus set to "cancel-pending".
	2. SOA confirms the M-EVENT-REPORT.
	3. SOA issues a valid subscriptionVersionOldSP-
	CancellationAcknowledge M-ACTION request.
	4. NPAC SMS Simulator responds successfully to the request.
	5. NPAC SMS Simulator issues the
	subscriptionVersionStatusAttributeValueChange or
	subscriptionVersionRangeStatusAttributeValueChange with the
	subscriptionStatus set to "canceled".
	6. SOA confirms the M-EVENT-REPORT.
Expected Results	The SOA issues a valid M-ACTION request and receives the NPAC
	SMS Simulator's M-ACTION response and M-EVENT-REPORT
	properly.
	1 1 2

11.4.12 MOC.SOA.CAP.ACT.subscriptionVersionNewSP-CancellationAcknowledge

Purpose	To test the SOA's ability, acting as the new service provider, to acknowledge the cancellation of a cancel-pending subscription version after the old service provider has requested the action to cancel. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	R

Severity Explanation	Direct impact on providing LNP service.
Prerequisites	MOC.SOA.CAP.ACT.subscriptionVersionCancel
Procedure	 NPAC SMS Simulator issues the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange with the subscriptionStatus set to "cancel-pending". SOA confirms the M-EVENT-REPORT. SOA issues a valid subscriptionVersionNewSP-CancellationAcknowledge M-ACTION request. NPAC SMS Simulator responds successfully to the M-ACTION. NPAC SMS Simulator issues the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange with the subscriptionStatus set to "canceled". SOA confirms the M-EVENT-REPORT.
Expected Results	The SOA receives the first M-EVENT-REPORT (cancel-pending), issues a valid M-ACTION request and receives the NPAC SMS Simulator's M-ACTION response and second M-EVENT-REPORT
	(canceled) properly.

11.4.13 MOC.SOA.CAP.ACT.subscriptionVersionDisconnect

Durance	To test the SOA's ability to disconnect an active subscription
Purpose	version immediately. This test case must be executed twice if a SOA
	is supporting both "individual" and "range/list" notifications.
Severity	R
Severity Explanation	Direct impact on providing LNP service.
Prerequisites	MOC.SOA.CAP.ACT.subscriptionVersionActivate-VersionId or
•	MOC.SOA.CAP.ACT.subscriptionVersionActivate-TN
Procedure	SOA sends a valid subscriptionVersionDisconnect M-ACTION request, populating the subscriptionEffectiveReleaseDate. NPAC SMS Simulator responds with a successful M-ACTION repulsion.
	reply. 3. NPAC SMS Simulator sends the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange with the subscriptionVersionStatus set to "disconnect-pending".
	4. SOA confirms the M-EVENT-REPORT.
	5. NPAC SMS Simulator issues the
	subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange with the subscriptionVersionStatus set to "old". 6. SOA confirms the M-EVENT-REPORT.
Expected Results	The SOA issues a valid M-ACTION request and receives the NPAC
	SMS Simulator's M-ACTION response and M-EVENT-REPORTs
	properly.

11.4.14 MOC.SOA.CAP.ACT.subscriptionVersionRemoveFromConflict

Purpose	To test the SOA's ability to remove a subscription version from
	conflict. This test case must be executed twice if a SOA is
	supporting both "individual" and "range/list" notifications.

Severity	R
Severity Explanation	Direct impact on providing LNP service.
Prerequisites	A subscriptionVersion with a status of 'conflict'.
Procedure	 SOA issues a valid subscriptionVersionRemoveFromConflict M-ACTION request. NPAC SMS Simulator responds with a successful M-ACTION reply. NPAC SMS issues the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange specifying the subscriptionVersionStatus as 'pending'. SOA confirms the M-EVENT-REPORT. NPAC SMS issues an attributeValueChange or subscriptionVersionRangeAttributeValueChange for the subscriptionVersion with the subscriptionOldSP-Authorization set to TRUE.
	6. SOA confirms the M-EVENT-REPORT.
Expected Results	The SOA issues a valid M-ACTION request and receives the NPAC SMS Simulator's M-ACTION response and M-EVENT-REPORTs properly.

11.4.15 MOC.SOA.INV.GET.InpSubscriptions

Purpose	To test the SOA's ability to handle the M-GET error response operationCancelled error to a previously initiated and valid M-GET request for all attributes of the lnpSubscriptions object.
Severity	C
Severity Explanation	May be performed to validate SOA's error handling.
Prerequisites	MOC.SOA.CAP.OP.GET.InpSubscriptions
Procedure	SOA issues a valid M-GET request to retrieve all the of the lnpSubscriptions object. NPAC SMS Simulator responds with the operationCancelled error.
Expected Results	The SOA correctly handles the error response operationCancelled error from the NPAC SMS Simulator.

11.4.16 MOC.SOA.INV.ACT.subscriptionVersionNewSP-Create

Purpose	To test the SOA's ability to handle an error response for an M-ACTION request. This will be accomplished by returning the soanot-authorized error in response to the subscriptionVersionNewSP-Create action.
Severity	R
Severity Explanation	Should be performed to validate the SOA's error handling.
Prerequisites	MOC.SOA.CAP.ACT.lnpSubscriptionVersionNewSP-Create-Initial
Procedure	 SOA issues a valid subscriptionVersionNewSP-Create action. NPAC SMS Simulator responds with a soa-not-authorized error.
Expected Results	The SOA will correctly handle the error response received from the NPAC SMS Simulator.

11.4.17 MOC.SOA.INV.ACT.subscriptionVersionOldSP-Create

Purpose	To test the SOA's ability to handle an error response for an M-ACTION request. This will be accomplished by returning the error status 'version-create-already-exists' in response to the subscriptionVersionOldSP-Create action.
Severity	R
Severity Explanation	Should be performed to validate the SOA's error handling.
Prerequisites	MOC.SOA.CAP.ACT.lnpSubscriptionVersionOldSP-Create-Initial
Procedure	 SOA issues a valid subscriptionVersionOldSP-Create action. NPAC SMS Simulator responds with a 'version-create-already-exists' error.
Expected Results	The SOA will correctly handle the error response received from the NPAC SMS Simulator.

11.4.18 MOC.SOA.INV.ACT.subscriptionVersionActivate

Purpose	To test the SOA's ability to handle an error response for an M-ACTION request. This will be accomplished by returning the soanot-authorized error in response to the subscriptionVersionActivate
	action.
Severity	R
Severity Explanation	Should be performed to validate the SOA's error handling.
Prerequisites	MOC.SOA.CAP.ACT.lnpSubscriptionVersionActivate-VersionId
Procedure	SOA issues a valid subscriptionVersionActivate action. NPAC SMS Simulator responds with a soa-not-authorized error.
Expected Results	The SOA will correctly handle the error response received from the NPAC SMS Simulator.

11.4.19 MOC.SOA.INV.ACT.subscriptionVersionModify

Purpose	To test the SOA's ability to handle an error response for an M-
• •	ACTION request. This will be accomplished by returning the
	invalidArgumentValue error in response to the
	subscriptionVersionModify action.
Severity	R
Severity Explanation	Should be performed to validate the SOA's error handling.
Prerequisites	MOC.SOA.CAP.ACT.lnpSubscriptionVersionModify
Procedure	SOA issues a valid subscriptionVersionModify action.
	2. NPAC SMS Simulator responds with an invalidArgumentError
	error.
Expected Results	The SOA will correctly handle the error response received from the
-	NPAC SMS Simulator.

11.4.20 MOC.SOA.INV.ACT.subscriptionVersionCancel

Purpose	To test the SOA's ability to handle an error response for an M-ACTION request. This will be accomplished by returning the error status 'failed' in response to the subscriptionVersionCancel action.
Severity	R
Severity Explanation	Should be performed to validate the SOA's error handling.
Prerequisites	MOC.SOA.CAP.ACT.lnpSubscriptionVersionCancel
Procedure	 SOA issues a valid subscriptionVersionCancel action. NPAC SMS Simulator responds with a 'failed' error.
Expected Results	The SOA will correctly handle the error response received from the NPAC SMS Simulator.

11.4.21 MOC.SOA.INV.ACT.subscriptionVersionOldSP-CancellationAcknowledge

Purpose	To test the SOA's ability to handle an error response for an M-ACTION request. This will be accomplished by returning the error status "no-version-found" in response to the
	subscriptionVersionOldSP-CancellationAcknowledge action.
Severity	R
Severity Explanation	Should be performed to validate the SOA's error handling.
Prerequisites	MOC.SOA.CAP.ACT.lnpSubscriptionVersionOldSP- CancellationAcknowledge
Procedure	SOA issues a valid subscriptionVersionOldSP- CancellationAcknowledge action. NPAC SMS Simulator responds with a 'no-version-found' error.
Expected Results	The SOA will correctly handle the error response received from the NPAC SMS Simulator.

11.4.22 MOC.SOA.INV.ACT.subscriptionVersionNewSP-CancellationAcknowledge

Purpose	To test the SOA's ability to handle an error response for an M-ACTION request. This will be accomplished by returning the
	noSuchAction error in response to the subscriptionVersionNewSP-
	CancellationAcknowledge action.
Severity	R
Severity Explanation	Should be performed to validate the SOA's error handling.
Prerequisites	MOC.SOA.CAP.ACT.lnpSubscriptionVersionNewSP-
•	CancellationAcknowledge
Procedure	SOA issues a valid subscriptionVersionNewSP-
	CancellationAcknowledge action.
	2. NPAC SMS Simulator responds with noSuchAction error.
Expected Results	The SOA will correctly handle the error response received from the
,	NPAC SMS Simulator.

11.4.23 MOC.SOA.INV.ACT.subscriptionVersionDisconnect

Purpose	To test the SOA's ability to handle an error response for an M-ACTION request. This will be accomplished by returning the noSuchArgument error in response to the subscriptionVersionDisconnect action.
Severity	R
Severity Explanation	Should be performed to validate the SOA's error handling.
Prerequisites	MOC.SOA.CAP.ACT.lnpSubscriptionVersionDisconnect
Procedure	 SOA issues a valid subscriptionVersionDisconnect action. NPAC SMS Simulator responds with noSuchArgument error.
Expected Results	The SOA will correctly handle the error response received from the NPAC SMS Simulator.

11.4.24 MOC.SOA.INV.ACT.subscriptionVersionRemoveFromConflict

Purpose	To test the SOA's ability to handle an error response for an M-ACTION request. This will be accomplished by returning the error status, "soa-not-authorized" in response to the subscriptionVersionRemoveFromConflict action.
Severity	R
Severity Explanation	Should be performed to validate the SOA's error handling.
Prerequisites	
Procedure	 SOA issues a valid subscriptionVersionDisconnect action. NPAC SMS Simulator responds with 'no-not-authorized' error.
Expected Results	The SOA will correctly handle the error response received from the NPAC SMS Simulator.

11.4.25 MOC.SOA.CAP.ACT.numberPoolBlockCreateAction

Purpose	Verify the SOA's ability to issue the numberPoolBlockCreate action.
Severity	C
Severity Explanation	Required if SOA will be supporting numberPoolBlock data.
Prerequisites	N/A
Procedure	SOA issues a valid numberPoolBlockCreate M-ACTION request. NPAC SMS Simulator responds with a successful M-ACTION response.
Expected Results	SOA issues a valid M-ACTION request and retrieves the data successfully from the NPAC SMS Simulator.

11.4.26 MOC.SOA.INV.ACT.numberPoolBlockCreateAction

Purpose	Verify the SOA's ability to handle an error response to the numberPoolBlockCreate action. This will be accomplished by issuing a soa-not-authorized error in response to the numberPoolBlockCreate action.
Severity	С
Severity Explanation	Required if SOA will be supporting numberPoolBlock data.

Prerequisites	N/A
Procedure	SOA issues a valid numberPoolBlockCreate M-ACTION
	request. 2. NPAC SMS Simulator responds with a soa-not-authorized
	error.
Expected Results	SOA correctly handles the error response received from the NPAC
•	SMS Simulator.

11.4.27 MOC.SOA.CAP.NOT.RANGE.subscriptionVersionRangeStatusAttri buteValueChange

Purpose	To test the SOA's ability to accept a
	subscriptionVersionRangeStatusAttributeValueChange M-EVENT-
	REPORT using the range-data CHOICE field in the ASN.1.
Severity	C
Severity Explanation	Required if SOA will be supporting the
	subscriptionVersionRangeStatusAttributeValueChange M-EVENT-
	REPORT.
Prerequisites	1 or more subscription versions exist on the NPAC SMS Simulator
1	with a subscriptionVersionStatus of 'pending'.
Procedure	NPAC SMS Simulator issues the
	subscriptionVersionRangeStatusAttributeValueChange
	specifying the subscriptionVersionStatus as 'active' for 1 or
	more subscription versions with consecutive TNs and
	subscription version Ids.
	2. SOA confirms the M-EVENT-REPORT.
Expected Results	The SOA receives the NPAC SMS Simulator's M-EVENT-REPORT
,	and acknowledges it correctly.

11.4.28 MOC.SOA.CAP.NOT.RANGE.subscriptionVersionRangeAttributeValueChange

Purpose	To test the SOA's ability to accept a subscriptionVersionRangeStatusAttributeValueChange M-EVENT-
	REPORT using the range-data CHOICE field in the ASN.1.
Severity	C
Severity Explanation	Required if SOA will be supporting the
	subscriptionVersionRangeAttributeValueChange M-EVENT-REPORT.
Prerequisites	The service provider SOA has issued a subscriptionVersionNewSP-
	Create action and created 1 or more 'pending' subscription versions
	on the NPAC SMS Simulator.
Procedure	NPAC SMS Simulator issues the
	subscriptionVersionRangeAttributeValueChange M-EVENT-
	REPORT, simulating the Old Service Provider create, for 1 or
	more 'pending' subscription versions with consecutive TNs and
	subscription version Ids.
	2. SOA confirms the M-EVENT-REPORT.
Expected Results	The SOA receives the NPAC SMS Simulator's M-EVENT-REPORT
,	and acknowledges it correctly.

11.4.29 MOC.SOA.CAP.NOT.RANGE.subscriptionVersionRangeObjectCreation

Purpose	To test the SOA's ability to accept a subscriptionVersionRangeObjectCreation M-EVENT-REPORT
	using the range-data CHOICE field in the ASN.1.
Severity	C
Severity Explanation	Required if SOA will be supporting the
γ γ	subscriptionVersionRangeObjectCreation notification.
Prerequisites	A lnpSubscriptions managed object instance has been inherently
•	created.
Procedure	NPAC SMS Simulator issues the
	subscriptionVersionRangeObjectCreation M-EVENT-REPORT
	for 1 or more subscription versions with consecutive TNs and
	subscription version Ids.
	2. SOA confirms the M-EVENT-REPORT.
Expected Results	The SOA receives the NPAC SMS Simulator's M-EVENT-REPORT
,	and acknowledges it correctly.

11.4.30 MOC.SOA.CAP.NOT.RANGE.subscriptionVersionRangeDonorSP-CustomerDisconnectDate

Purpose	To test the SOA's ability to accept a subscriptionVersionRangeDonorSP-CustomerDisconnectDate M-EVENT-REPORT using the range-data CHOICE field in the ASN.1.
Severity	C
Severity Explanation	Required if SOA will be supporting the subscriptionVersionRangeDonorSP-CustomerDisconnectDate
	notification.
Prerequisites	1 or more subscription versions exist on the NPAC SMS Simulator with a subscriptionVersionStatus of 'active'.
Procedure	NPAC SMS Simulator issues the subscriptionVersionRangeDonorSP-CustomerDisconnectDate for 1 or more subscription versions with consecutive TNs and subscription version Ids. SOA confirms the M-EVENT-REPORT.
Expected Results	The SOA receives the NPAC SMS Simulator's M-EVENT-REPORT and acknowledges it correctly.

11.4.31 MOC.SOA.CAP.NOT.RANGE.subscriptionVersionRangeCancellatio nAcknowledgeRequest

Purpose	To test the SOA's ability to accept a subscriptionVersionRangeCancellationAcknowledgeRequest M-EVENT-REPORT using the range-data CHOICE field in the ASN.1.
Severity	С
Severity Explanation	Required if SOA will be supporting the subscriptionVersionRangeCancellationAcknowledgeRequest notification.
Prerequisites	1 or more subscription versions exist on the NPAC SMS with a subscriptionVersionStatus of 'cancel-pending'.
Procedure	NPAC SMS Simulator issues the

	subscriptionVersionRangeCancellationAcknowledgeRequest
	for 1 or more subscription versions with consecutive TNs and
	subscription version Ids.
	2. SOA confirms the M-EVENT-REPORT.
Expected Results	The SOA receives the NPAC SMS Simulator's M-EVENT-REPORT
	and acknowledges it correctly.

11.4.32 MOC.SOA.CAP.NOT.RANGE.subscriptionVersionRangeNewSP-CreateRequest

Purpose	To test the SOA's ability to accept a
•	subscriptionVersionRangeNewSP-CreateRequest M-EVENT-
	REPORT using the range-data CHOICE field in the ASN.1.
Severity	C
Severity Explanation	Required if SOA will be supporting the
	subscriptionVersionRangeNewSP-CreateRequest notification.
Prerequisites	1 or more subscription versions exist on the NPAC SMS with a
,	subscriptionVersionStatus of 'pending' that were created by the Old
	Service Provider.
Procedure	1. NPAC SMS Simulator issues the
	subscriptionVersionRangeNewSP-CreateRequest notification
	for 1 or more subscription versions with consecutive TNs and
	subscription version Ids to the New Service Provider.
	2. SOA confirms the M-EVENT-REPORT.
Expected Results	The SOA receives the NPAC SMS Simulator's M-EVENT-REPORT
,	and acknowledges it correctly.

11.4.33 MOC.SOA.CAP.NOT.RANGE.subscriptionVersionRangeOldSP-ConcurrenceRequest

Purpose	To test the SOA's ability to accept a
. u.peee	subscriptionVersionRangeOldSP-ConcurrenceRequest M-EVENT-
	REPORT using the range-data CHOICE field in the ASN.1.
Severity	С
Severity Explanation	Required if SOA will be supporting the
,	subscriptionVersionRangeOldSP-ConcurrenceRequest notification.
Prerequisites	1 or more subscription versions exist on the NPAC SMS with a
1	subscriptionVersionStatus of 'pending' that were created by the
	New Service Provider.
Procedure	NPAC SMS Simulator issues the
	subscriptionVersionRangeOldSP-ConcurrenceRequest for 1 or
	more subscription versions with consecutive TNs and
	subscription version Ids to the Old Service Provider.
	2. SOA confirms the M-EVENT-REPORT.
Expected Results	The SOA receives the NPAC SMS Simulator's M-EVENT-REPORT
,	and acknowledges it correctly.

11.4.34 MOC.SOA.CAP.NOT.RANGE.subscriptionVersionRangeOldSPFinal ConcurrenceWindowExpiration

Purpose	To test the SOA's ability to accept a subscriptionVersionRangeOldSPFinalConcurrenceWindowExpiratio n M-EVENT-REPORT using the range-data CHOICE field in the
	ASN.1.

Severity	C
Severity Explanation	Required if SOA will be supporting the
	subscriptionVersionRangeOldSPFinalConcurrenceWindowExpiratio
	n notification.
Prerequisites	1 or more subscription versions exist on the NPAC SMS with a
	subscriptionVersionStatus of 'pending' that were created by the
	New Service Provider.
Procedure	NPAC SMS Simulator issues the
	subscriptionVersionRangeOldSPFinalConcurrenceWindowExpi
	ration for 1 or more subscription versions with consecutive TNs
	and subscription version Ids.
	2. SOA confirms the M-EVENT-REPORT.
Expected Results	The SOA receives the NPAC SMS Simulator's M-EVENT-REPORT
•	and acknowledges it correctly.

11.4.35 MOC.SOA.CAP.NOT.RANGE.subscriptionVersionRangeNewSPFin alCreateWindowExpiration

Purpose	To test the SOA's ability to accept a subscriptionVersionRangeNewSPFinalCreateWindowExpiration M-EVENT-REPORT using the range-data CHOICE field in the ASN.1.
Severity	С
Severity Explanation	Required if SOA will be supporting the subscriptionVersionRangeNewSPFinalCreateWindowExpiration notification.
Prerequisites	1 or more subscription versions exist on the NPAC SMS with a subscription Version Status of 'pending' that were created by the Old Service Provider.
Procedure	 NPAC SMS Simulator issues the subscriptionVersionRangeNewSPFinalCreateWindowExpiratio n for 1 or more subscription versions with consecutive TNs and subscription version Ids to the New Service Provider. SOA confirms the M-EVENT-REPORT.
Expected Results	The SOA receives the NPAC SMS Simulator's M-EVENT-REPORT and acknowledges it correctly.

11.4.36 MOC.SOA.CAP.NOT.LIST.subscriptionVersionRangeStatusAttribute ValueChange

Purpose	To test the SOA's ability to accept a subscriptionVersionRangeStatusAttributeValueChange M-EVENT-
	REPORT using the list-data CHOICE field in the ASN.1.
Severity	С
Severity Explanation	Required if SOA will be supporting the subscriptionVersionRangeStatusAttributeValueChange M-EVENT-REPORT.
Prerequisites	2 or more subscription versions exist on the NPAC SMS Simulator with a subscriptionVersionStatus of 'pending' with consecutive TNs and non-consecutive subscription version Ids.
Procedure	NPAC SMS issues the subscriptionVersionRangeStatusAttributeValueChange specifying the subscriptionVersionStatus as 'active' for 2 or more subscription versions with consecutive TNs and non-consecutive subscription version Ids. SOA confirms the M-EVENT-REPORT.

Expected Results	The SOA receives the NPAC SMS Simulator's M-EVENT-REPORT
,	and acknowledges it correctly.

11.4.37 MOC.SOA.CAP.NOT.LIST.subscriptionVersionRangeAttributeValue Change

Purpose	To test the SOA's ability to accept a subscriptionVersionRangeStatusAttributeValueChange M-EVENT-
	REPORT using the list-data CHOICE field in the ASN.1.
Severity	C
Severity Explanation	Required if SOA will be supporting the subscriptionVersionRangeAttributeValueChange M-EVENT-REPORT.
Prerequisites	The service provider SOA has issued a subscriptionVersionNewSP-Create action and created 2 or more 'pending' subscription versions on the NPAC SMS Simulator with consecutive TNs and non-consecutive subscription version Ids.
Procedure	NPAC SMS Simulator issues the subscriptionVersionRangeRangeAttributeValueChange M-EVENT-REPORT, simulating the Old Service Provider. SOA confirms the M-EVENT-REPORT for 2 or more subscription versions with consecutive TNs and non-consecutive subscription version Ids.
Expected Results	The SOA receives the NPAC SMS Simulator's M-EVENT-REPORT and acknowledges it correctly.

11.4.38 MOC.SOA.CAP.NOT.LIST.subscriptionVersionRangeObjectCreation

Purpose	To test the SOA's ability to accept a
•	subscriptionVersionRangeObjectCreation M-EVENT-REPORT
	using the list-data CHOICE field in the ASN.1.
Severity	C
Severity Explanation	Required if SOA will be supporting the
, , , , , , , , , , , , , , , , , , , ,	subscriptionVersionRangeObjectCreation notification.
Prerequisites	An InpSubscriptions managed object instance has been inherently
•	created.
Procedure	NPAC SMS Simulator issues the
	subscriptionVersionRangeObjectCreation M-EVENT-REPORT
	for 2 or more subscription versions with consecutive TNs and
	non-consecutive subscription version Ids.
	2. SOA confirms the M-EVENT-REPORT.
Expected Results	The SOA receives the NPAC SMS Simulator's M-EVENT-REPORT
•	and acknowledges it correctly.

11.4.39 MOC.SOA.CAP.NOT.LIST.subscriptionVersionRangeDonorSP-CustomerDisconnectDate

Purpose	To test the SOA's ability to accept a subscriptionVersionRangeDonorSP-CustomerDisconnectDate M-EVENT-REPORT using the list-data CHOICE field in the ASN.1.
Severity	C

Severity Explanation	Required if SOA will be supporting the
	subscriptionVersionRangeDonorSP-CustomerDisconnectDate
	notification.
Prerequisites	2 or more subscription versions exist on the NPAC SMS Simulator
,	with a subscriptionVersionStatus of 'active' with consecutive TNs
	and non-consecutive subscription version Ids.
Procedure	NPAC SMS Simulator issues the
	subscriptionVersionRangeDonorSP-CustomerDisconnectDate
	for 2 or more subscription versions with consecutive TNs and
	non-consecutive subscription version Ids.
	2. SOA confirms the M-EVENT-REPORT.
Expected Results	The SOA receives the NPAC SMS Simulator's M-EVENT-REPORT
•	and acknowledges it correctly.

11.4.40 MOC.SOA.CAP.NOT.LIST.subscriptionVersionRangeCancellationA cknowledgeReques

Purpose	To test the SOA's ability to accept a subscriptionVersionRangeCancellationAcknowledgeRequest M-EVENT-REPORT using the list-data CHOICE field in the ASN.1.
Severity	С
Severity Explanation	Required if SOA will be supporting the subscriptionVersionRangeCancellationAcknowledgeRequest notification.
Prerequisites	2 or more subscription versions exist on the NPAC SMS with a subscriptionVersionStatus of 'pending' with consecutive TNs and non-consecutive subscription version Ids.
Procedure	NPAC SMS Simulator issues the subscriptionVersionRangeCancellationAcknowledgeRequest for 2 or more subscription versions with consecutive TNs and non-consecutive subscription version Ids. SOA confirms the M-EVENT-REPORT.
Expected Results	The SOA receives the NPAC SMS Simulator's M-EVENT-REPORT and acknowledges it correctly.

11.4.41 MOC.SOA.CAP.NOT.LIST.subscriptionVersionRangeNewSP-CreateRequest

Purpose	To test the SOA's ability to accept a
•	subscriptionVersionRangeNewSP-CreateRequest M-EVENT-
	REPORT using the list-data CHOICE field in the ASN.1.
Severity	С
Severity Explanation	Required if SOA will be supporting the
, ,	subscriptionVersionRangeNewSP-CreateRequest notification.
Prerequisites	2 or more subscription versions exist on the NPAC SMS with a
,	subscriptionVersionStatus of 'pending' that were created by the Old
	Service Provider with consecutive TNs and non-consecutive
	subscription version Ids.
Procedure	NPAC SMS Simulator issues the
	subscriptionVersionRangeNewSP-CreateRequest for 2 or more
	subscription versions with consecutive TNs and non-
	consecutive subscription version Ids
	2. SOA confirms the M-EVENT-REPORT.
Expected Results	The SOA receives the NPAC SMS Simulator's M-EVENT-REPORT

and acknowledges it correctly.

11.4.42 MOC.SOA.CAP.NOT.LIST.subscriptionVersionRangeOldSP-ConcurrenceRequest

Purpose	To test the SOA's ability to accept a
•	subscriptionVersionRangeOldSP-ConcurrenceRequest M-EVENT-
	REPORT using the list-data CHOICE field in the ASN.1.
Severity	C
Severity Explanation	Required if SOA will be supporting the
	subscriptionVersionRangeOldSP-ConcurrenceRequest notification.
Prerequisites	2 or more subscription versions exist on the NPAC SMS with a
'	subscriptionVersionStatus of 'pending' that were created by the
	New Service Provider with consecutive TNs and non-consecutive
	subscription version Ids.
Procedure	NPAC SMS Simulator issues the
	subscriptionVersionRangeOldSP-ConcurrenceRequest for 2 or
	more subscription versions with consecutive TNs and non-
	consecutive subscription version Ids to the Old Service
	Provider.
	2. SOA confirms the M-EVENT-REPORT.
Expected Results	The SOA receives the NPAC SMS Simulator's M-EVENT-REPORT
•	and acknowledges it correctly.

11.4.43 MOC.SOA.CAP.NOT.LIST.subscriptionVersionRangeOldSPFinalConcurrenceWindowExpiration

Purpose	To test the SOA's ability to accept a subscriptionVersionRangeOldSPFinalConcurrenceWindowExpiratio n M-EVENT-REPORT using the list-data CHOICE field in the ASN.1.
Severity	С
Severity Explanation	Required if SOA will be supporting the subscriptionVersionRangeOldSPFinalConcurrenceWindowExpiration notification.
Prerequisites	2 or more subscription versions exist on the NPAC SMS with a subscriptionVersionStatus of 'pending' that were created by the New Service Provider with consecutive TNs and non-consecutive subscription version Ids.
Procedure	NPAC SMS Simulator issues the subscriptionVersionRangeOldSPFinalConcurrenceWindowExpi ration for 2 or more subscription versions with consecutive TNs and non-consecutive subscription version Ids to the Old Service Provider. SOA confirms the M-EVENT-REPORT.
Expected Results	The SOA receives the NPAC SMS Simulator's M-EVENT-REPORT and acknowledges it correctly.

11.4.44 MOC.SOA.CAP.NOT.LIST.subscriptionVersionRangeNewSPFinalCr eateWindowExpiration

Purpose	To test the SOA's ability to accept a subscriptionVersionRangeNewSPFinalCreateWindowExpiration M-EVENT-REPORT using the list-data CHOICE field in the ASN.1.
Severity	C

Severity Explanation	Required if SOA will be supporting the subscriptionVersionRangeNewSPFinalCreateWindowExpiration notification.
Prerequisites	2 or more subscription versions exist on the NPAC SMS with a subscriptionVersionStatus of 'pending' that were created by the Old Service Provider with consecutive TNs and non-consecutive subscription version Ids.
Procedure	NPAC SMS Simulator issues the subscriptionVersionRangeNewSPFinalCreateWindowExpiratio n for 2 or more subscription versions with consecutive TNs and non-consecutive subscription version Ids to the New Service Provider. SOA confirms the M-EVENT-REPORT.
Expected Results	The SOA receives the NPAC SMS Simulator's M-EVENT-REPORT and acknowledges it correctly.

11.4.45 MOC.SOA.INV.NOT.<u>RANGE.</u>subscriptionVersionRangeStatusAttrib uteValueChange

Purpose	To test the SOA's ability to accept a subscriptionVersionRangeStatusAttributeValueChange M-EVENT-REPORT with invalid syntax for the failed-service-provs field.
Severity	0
Severity Explanation	
Prerequisites	The service provider SOA has issued a subscriptionVersionNewSP-Create action and created 2 or more 'pending' subscription versions on the NPAC SMS Simulator.
Procedure	 NPAC SMS issues the subscriptionVersionRangeStatusAttributeValueChange specifying the subscriptionVersionStatus as 'active'. SOA rejects the M-EVENT-REPORT with an invalidArgument error.
Expected Results	The SOA receives the NPAC SMS Simulator's M-EVENT-REPORT and returns the invalidArgument or other appropriate error.

11.4.46 MOC.SOA.INV.NOT.<u>RANGE.</u>subscriptionVersionRangeAttributeValueChange

Purpose	To test the SOA's ability to accept a subscriptionVersionRangeStatusAttributeValueChange M-EVENT-REPORT with invalid syntax for the version-id field.
Severity	0
Severity Explanation	
Prerequisites	The service provider SOA has issued a subscriptionVersionNewSP-Create action and created 2 or more 'pending' subscription versions on the NPAC SMS Simulator.
Procedure	NPAC SMS Simulator issues the subscriptionVersionRangeRangeAttributeValueChange M-EVENT-REPORT, simulating the Old Service Provider. SOA rejects the M-EVENT-REPORT with an invalidArgument error.
Expected Results	The SOA receives the NPAC SMS Simulator's M-EVENT-REPORT and returns the invalidArgument or other appropriate error.

11.4.47 MOC.SOA.INV.NOT.<u>RANGE.</u>subscriptionVersionRangeObjectCreat ion

Purpose	To test the SOA's ability to accept a subscriptionVersionRangeObjectCreation M-EVENT-REPORT with invalid syntax for the object-info field.
Severity	0
Severity Explanation	
Prerequisites	A InpSubscriptions managed object instance has been inherently created.
Procedure	 NPAC SMS Simulator issues the subscriptionVersionRangeObjectCreation M-EVENT-REPORT. SOA rejects the M-EVENT-REPORT with an invalidArgument error.
Expected Results	The SOA receives the NPAC SMS Simulator's M-EVENT-REPORT and returns the invalidArgument or other appropriate error.

11.4.48 MOC.SOA.INV.NOT.<u>RANGE.</u>subscriptionVersionRangeDonorSP-CustomerDisconnectDate

Purpose	To test the SOA's ability to accept a subscriptionVersionRangeDonorSP-CustomerDisconnectDate M-EVENT-REPORT with invalid syntax for the customer-disconnect-date field.
Severity	0
Severity Explanation	
Prerequisites	2 or more subscription versions exist on the NPAC SMS Simulator with a subscriptionVersionStatus of 'active'.
Procedure	 NPAC SMS Simulator issues the subscriptionVersionRangeDonorSP-CustomerDisconnectDate . SOA rejects the M-EVENT-REPORT with an invalidArgument error.
Expected Results	The SOA receives the NPAC SMS Simulator's M-EVENT-REPORT and returns the invalidArgument or other appropriate error.

11.4.49 MOC.SOA.INV.NOT.<u>RANGE.</u>subscriptionVersionRangeCancellatio nAcknowledgeReques

Purpose	To test the SOA's ability to accept a subscriptionVersionRangeCancellationAcknowledgeRequest M-EVENT-REPORT with invalid syntax for the tn-version-id field.
Severity	0
Severity Explanation	
Prerequisites	2 or more subscription versions exist on the NPAC SMS with a subscriptionVersionStatus of 'pending'.
Procedure	NPAC SMS Simulator issues the subscriptionVersionRangeCancellationAcknowledgeRequest. SOA rejects the M-EVENT-REPORT with an invalidArgument error.
Expected Results	The SOA receives the NPAC SMS Simulator's M-EVENT-REPORT

and acknowledges it correctly.

11.4.50 MOC.SOA.INV.NOT.<u>RANGE.</u>subscriptionVersionRangeNewSP-CreateRequest

Purpose	To test the SOA's ability to accept a subscriptionVersionRangeNewSP-CreateRequest M-EVENT-
	REPORT with invalid syntax for the service-prov-id field.
Severity	0
Severity Explanation	
Prerequisites	2 or more subscription versions exist on the NPAC SMS with a subscription Version Status of 'pending' that were created by the Old Service Provider.
Procedure	NPAC SMS Simulator issues the subscriptionVersionRangeNewSP-CreateRequest to the New Service Provider. SOA rejects the M-EVENT-REPORT with an invalidArgument error.
Expected Results	The SOA receives the NPAC SMS Simulator's M-EVENT-REPORT and returns the invalidArgument or other appropriate error.

11.4.51 MOC.SOA.INV.NOT.<u>RANGE.</u>subscriptionVersionRangeOldSP-ConcurrenceRequest

Purpose	To test the SOA's ability to accept a subscriptionVersionRangeOldSP-ConcurrenceRequest M-EVENT-REPORT with invalid syntax for the tn-version-id field.
Severity	0
Severity Explanation	
Prerequisites	2 or more subscription versions exist on the NPAC SMS with a subscriptionVersionStatus of 'pending' that were created by the New Service Provider.
Procedure	NPAC SMS Simulator issues the subscriptionVersionRangeOldSP-ConcurrenceRequest to the Old Service Provider. SOA rejects the M-EVENT-REPORT with an invalidArgument error.
Expected Results	The SOA receives the NPAC SMS Simulator's M-EVENT-REPORT and returns the invalidArgument or other appropriate error.

11.4.52 MOC.SOA.INV.NOT.<u>RANGE.</u>subscriptionVersionRangeOldSPFinal ConcurrenceWindowExpiration

Purpose	To test the SOA's ability to accept a subscriptionVersionRangeOldSPFinalConcurrenceWindowExpiratio n M-EVENT-REPORT with invalid syntax for the tn-version-id field.
Severity	0
Severity Explanation	
Prerequisites	2 or more subscription versions exist on the NPAC SMS with a subscriptionVersionStatus of 'pending' that were created by the New Service Provider.
Procedure	NPAC SMS Simulator issues the subscriptionVersionRangeOldSPFinalConcurrenceWindowExpiration to the Old Service Provider.

	2. SOA rejects the M-EVENT-REPORT with an invalidArgument
	error.
Expected Results	The SOA receives the NPAC SMS Simulator's M-EVENT-REPORT
	and returns the invalidArgument or other appropriate error.

11.4.53 MOC.SOA.INV.NOT.<u>RANGE.</u>subscriptionVersionRangeNewSPFina ICreateWindowExpiration

Purpose	To test the SOA's ability to accept a subscriptionVersionRangeNewSPFinalCreateWindowExpiration M-EVENT-REPORT with invalid syntax for the service-prov-old-authorization field.
Severity	0
Severity Explanation	
Prerequisites	2 or more subscription versions exist on the NPAC SMS with a subscriptionVersionStatus of 'pending' that were created by the Old Service Provider.
Procedure	NPAC SMS Simulator issues the subscriptionVersionRangeNewSPFinalCreateWindowExpiration to the New Service Provider. SOA rejects the M-EVENT-REPORT with an invalidArgument error.
Expected Results	The SOA receives the NPAC SMS Simulator's M-EVENT-REPORT and returns the invalidArgument or other appropriate error.

11.5 InpNetwork

МО	InpNetwork
Purpose	This section contains the test cases for the lnpNetwork Managed Object
_	Class pertaining to the SOA to NPAC SMS Interface, as part of the Managed
	Object Conformance testing of the NPAC SMS Interoperability Test.
Prerequisite	A Service Provider and Network Data Management association function is
•	established. A lnpNPAC-SMS and a lnpNetwork Managed Object Instances
	have been created inherently.

11.5.1 MOC.SOA.CAP.OP.GET.InpNetwork

Purpose	To test the SOA's ability to GET all the attributes of the lnpNetwork
	managed object instance.
Severity	0
Severity Explanation	No impact to providing LNP service. May be performed to verify the lnpNetwork object.
Prerequisites	A lnpNetwork managed object instance has been inherently created.
Procedure	 SOA sends a valid M-GET request to retrieve all attributes of the lnpNetwork object. NPAC SMS Simulator responds with the M-GET result containing all attributes.
Expected Results	The SOA issues a valid M-GET request and retrieves the attributes successfully from the NPAC SMS Simulator.

11.5.2 MOC.SOA.INV.GET.InpNetwork

Purpose	To test the SOA's ability to handle the M-GET error response processingFailure error to a previously initiated and valid M-GET request for all attributes of the lnpNetwork object.
Severity	C
Severity Explanation	Should be performed if MOC.SOA.CAP.OP.GET.lnpNetwork performed.
Prerequisites	MOC.SOA.CAP.OP.GET.lnpNetwork
Procedure	 SOA sends a valid M-GET request to retrieve all the attributes from the lnpNetwork object. NPAC SMS Simulator responds with processingFailure error.
Expected Results	The SOA correctly handles the error response processingFailure error from the NPAC SMS Simulator.

$11.5.3\ MOC. SOA. CAP. ACT. In pNetwork. In pDownload$

Purpose	To test the SOA 's ability to download the serviceProvNetwork, serviceProvNPA-NXX and serviceProvLRN objects instantiated on the NPAC SMS Simulator. This will be accomplished by the SOA issuing the confirmed M-ACTION request for InpDownload via the InpNetwork object and subsequently handling the NPAC SMS Simulator M-ACTION response.
Severity	С
Severity Explanation	This test case must be executed if the SOA is to support network data recovery.
Prerequisites	Network data to be recovered exists. The data to be recovered includes data to be added, modified, or deleted for each type of network data to be recovered.
Procedure	 SOA sends a InpDownload M-ACTION request with criteria as supported by the product. NPAC SMS Simulator responds with a InpDownload M-ACTION response.
Expected Results	The SOA sends a valid M-ACTION request and receives the NPAC SMS Simulator M-ACTION response properly.

11.5.4 MOC.SOA.INV.ACT.InpNetwork.InpDownload

Purpose	To test the SOA 's ability to handle an error response for the
*	InpDownload action.
Severity	С
Severity Explanation	This test case must be executed if the SOA supports network data
	recovery.
Prerequisites	
Procedure	SOA sends a InpDownload M-ACTION request for network
	data with criteria as supported by the product.
	2. NPAC SMS Simulator responds with error status 'failed'.
Expected Results	The SOA will correctly handle the error response received from the
•	NPAC SMS Simulator.

11.5.5 MOC.SOA.VAL.InpDownload-NPA-NXX-X

Purpose	Verify the SOA's ability to issue the lnpDownload action for
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	serviceProvNPA-NXX-X data.
Severity	C
Severity Explanation	Required if SOA will be supporting serviceProvNPA-NXX-X data.
Prerequisites	serviceProvNPA-NXX-X objects exist on the NPAC SMS Simulator.
Procedure	SOA issues a valid lnpDownload M-ACTION request for all network data or specific serviceProvNPA-NXX-X objects. NPAC SMS Simulator responds with a successful M-ACTION response containing the requested data.
Expected Results	SOA issues a valid M-ACTION request and retrieves the data successfully from the NPAC SMS Simulator.

11.6 serviceProv

МО	serviceProv
Purpose	This section contains the test cases for the serviceProv Managed Object Class pertaining to the SOA to NPAC SMS Interface, as part of the Managed Object Conformance testing of the NPAC SMS Interoperability Test.
Prerequisite	A Service Provider and Network Data Management association function is established. A lnpNPAC-SMS and a lnpServiceProvs Managed Object Instances have been created inherently. A serviceProv Managed Object Instance has been created locally by the NPAC SMS Simulator personnel.

11.6.1 MOC.SOA.CAP.OP.SET.serviceProv

Purpose	To test the SOA's ability to SET all of the mandatory attributes on which the M-SET operation is allowed in the serviceProv managed object instance.
Severity	С
Severity Explanation	Does not impact ability to provide LNP service. Required if the service provider will manage their service provider profile from the SOA.
Prerequisites	A serviceProv managed object instance has been created.
Procedure	SOA issues the M-SET to update the serviceProvAddress, serviceProvSysLinkInfo and serviceProvName. NPAC SMS Simulator responds with a successful M-SET result.
Expected Results	The SOA issues a valid M-SET request and sets the serviceProvAddress, serviceProvName and serviceProvSysLinkInfo attributes successfully in the NPAC SMS Simulator.

11.6.2 MOC.SOA.CAP.OP.GET.serviceProv

Purpose	To test the SOA's ability to GET all the attributes of the serviceProv managed object instance.
Severity	0
Severity Explanation	Does not impact ability to provide LNP service. Required if service provider will be updating the serviceProv object from the SOA.
Prerequisites	MOC.SOA.CAP.OP.SET.serviceProv

Procedure	SOA issues the M-GET to retrieve all attributes from the serviceProv object. NPAC SMS Simulator responds with a successful M-GET
	result containing all attributes.
Expected Results	The SOA issues a valid M-GET request and retrieves the attributes successfully from the NPAC SMS Simulator.

11.6.3 MOC.SOA.VAL.SET.SING.serviceProv

Purpose	To test the SOA's ability to SET a single attribute, namely the serviceProvAddress in the serviceProv managed object instance. Note: Although only a single attribute is updated, all modifiable attributes of the serviceProv object must be sent.
Severity	C
Severity Explanation	Does not impact ability to provide LNP service. Required if the service provider will be updating their serviceProv object from the SOA, but may be satisfied by MOC.SOA.CAP.OP.SET.serviceProv
Prerequisites	A serviceProv managed object instance has been created.
Procedure	SOA issues the M-SET to update the serviceProvAddress. NPAC SMS Simulator responds with a successful M-SET result.
Expected Results	The SOA issues a valid M-SET request and sets the serviceProvAddress attribute successfully in the NPAC SMS Simulator.

11.6.4 MOC.SOA.VAL.SET.SING.COND.serviceProv

Purpose	To test the SOA's ability to SET a single conditional attribute, namely the serviceProvBillingAddress in the serviceProv managed object instance. Note: Although only a single attribute is updated, all modifiable attributes of the serviceProv object must be sent.
Severity	C
Severity Explanation	Does not impact ability to provide LNP service. Required if service provider elects to update their serviceProv object from the SOA.
Prerequisites	MOC.SOA.VAL.SET.SING.serviceProv
Procedure	SOA issues the M-SET to update the serviceProvBillingAddress. NPAC SMS Simulator responds with a successful M-SET result.
Expected Results	The SOA issues a valid M-SET request and sets the serviceProvBillingAddress attribute successfully in the NPAC SMS Simulator.

11.6.5 MOC.SOA.VAL.SET.MULT.serviceProv

Purpose	To test the SOA's ability to SET a group of attributes, namely the serviceProvAddress, npacCustomerAllowableFunctions, and serviceProvSOA-Address in the serviceProv managed object instance.
	mstance.

Severity	Note: Although only a subset of the attributes is being updated, all modifiable attributes of the serviceProv object must be sent. C
Severity Explanation	Does not impact ability to provide LNP service. Required if service provider elects to update their serviceProv object from the SOA.
Prerequisites	MOC.SOA.VAL.SET.SING.COND.serviceProv
Procedure	SOA issues the M-SET to update the serviceProvAddress, npacCustomerAllowableFunctions and serviceProvSOA-Address. NPAC SMS Simulator responds with a successful M-SET result.
Expected Results	The SOA issues a valid M-SET request and sets the attribute group successfully in the NPAC SMS Simulator.

11.6.6 MOC.SOA.INV.SET.serviceProv

Purpose	To test the SOA's ability to handle the M-SET error response processingFailure error to a previously initiated and valid M-SET request for the serviceProvName attribute.
Severity	C
Severity Explanation	Should be performed if MOC.SOA.VAL.SET.SING.serviceProv, MOC.SOA.VAL.SET.COND.serviceProv or MOC.SOA.VALSET.MULT.serviceProv is performed
Prerequisites	MOC.SOA.VAL.SET.SING.serviceProv
Procedure	 SOA issues a valid M-SET for the serviceProvName attribute on the serviceProv object. NPAC SMS Simulator responds with a processingFailure error.
Expected Results	The SOA correctly handles the error response processingFailure error from the NPAC SMS Simulator.

11.6.7 MOC.SOA.INV.GET.serviceProv

Purpose	To test the SOA's ability to handle the M-GET error response processingFailure error to a previously initiated and valid M-GET request for all the attributes of the serviceProv object.
Severity	C
Severity Explanation	Should be performed if MOC.SOA.CAP.OP.GET.serviceProv is performed.
Prerequisites	MOC.SOA.CAP.OP.GET.serviceProv
Procedure	 SOA issues a valid M-GET for all the attributes of the serviceProv object. NPAC SMS Simulator responds with a processingFailure error.
Expected Results	The SOA correctly handles the error response processingFailure error from the NPAC SMS Simulator.

11.6.8 MOC.SOA.BND.MIN.SET.serviceProv

Purpose	To test the behaviour of the SOA when setting the city field of the
•	serviceProvAddress attribute to a value of length 1 octet which is

	the lower bound of the range for the city size.
Severity	С
Severity Explanation	Should be performed if MOC.SOAVAL.SET.SING.serviceProv is performed.
Prerequisites	MOC.SOA.VAL.SET.SING.serviceProv
Procedure	 SOA issues a valid M-SET for the serviceProvAddress attribute with the city equal to a string value of length 1 on the serviceProv object. NPAC SMS Simulator responds with a valid M-SET result.
Expected Results	SOA handles the M-SET response and the city field is set accordingly in the NPAC SMS Simulator.

11.6.9 MOC.SOA.BND.MAX.SET.serviceProv

Purpose	To test the behaviour of the SOA when setting the city field of the serviceProvAddress attribute to a value of length 20 which is the higher bound of the range for the city size.
Severity	С
Severity Explanation	Should be performed if MOC.SOAVAL.SET.SING.serviceProv is performed.
Prerequisites	MOC.SOA.VAL.SET.SING.serviceProv
Procedure	 SOA issues a valid M-SET for the serviceProvAddress attribute with the city equal to a string value of length 20 on the serviceProv object. NPAC SMS Simulator responds with a valid M-SET result.
Expected Results	The SOA handles the M-SET response and the city field is set accordingly in the NPAC SMS Simulator.

11.7 subscriptionAudit

МО	subscriptionAudit
Purpose	This section contains the test cases for the subscriptionAudit Managed Object Class pertaining to the SOA to NPAC SMS Interface, as part of the Managed Object Conformance testing of the NPAC SMS Interoperability Test.
Prerequisite	A SOA Management association function is established. A lnpNPAC-SMS and a lnpAudits Managed Object Instances have been created inherently.

11.7.1 MOC.SOA.CAP.OP.CRE.subscriptionAudit

Purpose	To test the SOA's ability to CREATE a managed object instance of the subscriptionAudit class and subsequently handle the objectCreation notification generated by that operation.
Severity	С
Severity Explanation	Does not impact ability to provide LNP service. Required if the SOA will be supporting audits.
Prerequisites	A lnpAudits managed object instance has been inherently created.
Procedure	 SOA sends the M-CREATE request for the subscriptionAudit object. NPAC SMS Simulator responds with a successful M-CREATE

	response. 3. NPAC SMS issues the objectCreation M-EVENT-REPORT for the subscriptionAudit object. 4. SOA confirms the M-EVENT-REPORT.
Expected Results	The SOA issues a valid M-CREATE request causing the audit object to be successfully created in the NPAC SMS Simulator, receives the M-EVENT-REPORT for objectCreation from the NPAC SMS Simulator and responds with the M-EVENT-REPORT confirmation to the NPAC SMS Simulator.

11.7.2 MOC.SOA.CAP.OP.GET.subscriptionAudit

Purpose	To test the SOA's ability to GET all the attributes of the subscriptionAudit managed object instance.
Severity	0
Severity Explanation	Does not impact ability to provide LNP service. SOA may perform to verify functionality works.
Prerequisites	MOC.SOA.CAP.OP.CRE.subscriptionAudit
Procedure	 SOA sends M-GET request for all attributes of the subscriptionAudit object. NPAC SMS Simulator responds with the M-GET result containing all attributes.
Expected Results	The SOA issues a valid M-GET request and retrieves the attributes successfully from the NPAC SMS Simulator.

11.7.3 MOC.SOA.CAP.OP.DEL.subscriptionAudit

Purpose	To test the SOA's ability to DELETE an existing managed object instance of the subscriptionAudit class and subsequently handle the objectDeletion notification generated by that operation.
Severity	0
Severity Explanation	Does not impact ability to provide LNP service. SOA may perform to verify functionality.
Prerequisites	MOC.SOA.CAP.OP.CRE.subscriptionAudit
Procedure	 SOA issues M-DELETE request for subscriptionAudit object. NPAC SMS Simulator responds with successful M-DELETE response. NPAC SMS issues objectDeletion M-EVENT-REPORT for the subscriptionAudit object. SOA confirms the M-EVENT-REPORT.
Expected Results	The SOA issues a valid M-DELETE request and removes the managed object instance successfully from the NPAC SMS Simulator, receives the M-EVENT-REPORT for objectDeletion from the NPAC SMS Simulator and responds with the M-EVENT-REPORT confirmation to the NPAC SMS Simulator.

11.7.4 MOC.SOA.CAP.NOT.subscriptionAuditResults

	Purpose	To test the SOA's ability to receive the M-EVENT-REPORT for the
Subscription reacts subscription reactives notification.		subscriptionAudit's subscriptionAuditResults notification.

Severity	С
Severity Explanation	Does not impact ability to provide LNP service. Required if the
	SOA is supporting audits.
Prerequisites	MOC.SOA.CAP.OP.CRE.subscriptionAudit
Procedure	NPAC SMS Simulator sends the subscriptionAuditResults M- EVENT-REPORT.
	2. SOA confirms the M-EVENT-REPORT.
Expected Results	The SOA responds with a valid M-EVENT-REPORT confirmation.

11.7.5 MOC.SOA.CAP.NOT.subscriptionAudit-DiscrepancyReport

Purpose	To test the SOA's ability to receive the M-EVENT-REPORT for the subscriptionAudit's subscriptionAudit-DiscrepancyReport notification.
Severity	С
Severity Explanation	Does not impact ability to provide LNP service. Required if the SOA is supporting audits.
Prerequisites	MOC.SOA.CAP.OP.CRE.subscriptionAudit
Procedure	 NPAC SMS Simulator sends the subscriptionAudit- DiscrepancyReport M-EVENT-REPORT to the SOA. SOA confirms the M-EVENT-REPORT.
Expected Results	The SOA responds with a valid M-EVENT-REPORT confirmation.

11.7.6 MOC.SOA.VAL.CRE.AUTO.subscriptionAudit

Purpose	To test the SOA's ability to CREATE a managed object instance of the subscriptionAudit class using AUTOMATIC INSTANCE NAMING and subsequently handle the objectCreation notification generated by that operation.
Severity	0
Severity Explanation	Does not impact ability to provide LNP service.
Prerequisites	MOC.SOA.CAP.OP.CRE.subscriptionAudit
Procedure	 SOA sends the M-CREATE request for the subscriptionAudit object. NPAC SMS Simulator responds with a successful M-CREATE response. NPAC SMS issues the objectCreation M-EVENT-REPORT for the subscriptionAudit object. SOA confirms the M-EVENT-REPORT.
Expected Results	The SOA issues a valid M-CREATE request with AUTOMATIC INSTANCE NAMING, causing the managed object instance to be successfully created in the NPAC SMS Simulator, receives the M-EVENT-REPORT for objectCreation from the NPAC SMS Simulator and responds with the M-EVENT-REPORT confirmation to the NPAC SMS Simulator.

11.7.7 MOC.SOA.VAL.GET.SCOP.FILT.subscriptionAudit

Purpose	To test the SOA's ability to initiate a valid scoped and filtered M-
0 1 37 1 107 2001	

	GET request for all attributes of the subscriptionAudit object.
Severity	0
Severity Explanation	Does not impact ability to provide LNP service. If the service provider opts to implement Audits, there is no impact due to not supporting this operation. Only impact is on the ability of the SOA to examine audits in-progress as a group instead of one at a time.
Prerequisites	Multiple subscriptionAudit managed object instances have been created and MOC.SOA.VAL.GET.MULT.subscriptionAudit
Procedure	 SOA sends the M-GET request for all the attributes and filtered for the given serviceProvId. NPAC SMS Simulator responds with the M-GET results containing all the attributes for the matching subscriptionAudit objects.
Expected Results	The SOA issues a valid M-GET request and retrieves all the attributes successfully from the NPAC SMS Simulator.

11.7.8 MOC.SOA.VAL.DEL.SCOP.subscriptionAudit

Purpose	To test the SOA's ability to issue a scoped DELETE for a group of existing managed object instances of the subscriptionAudit class and subsequently handle the objectDeletion notifications generated by that operation.
Severity	Ő
Severity Explanation	Does not impact ability to provide LNP service. Functionality may be satisfied by deleting the audit instances one at a time.
Prerequisites	MOC.SOA.CAP.OP.CRE.subscriptionAudit, and multiple instances created.
Procedure	 SOA sends the M-DELETE request for the subscriptionAudit filtered for the given serviceProvId. NPAC SMS Simulator responds with the M-DELETE results. NPAC SMS issues the objectDeletion M-EVENT-REPORTs for all the deleted objects. SOA confirms all the M-EVENT-REPORTs.
Expected Results	The SOA issues a valid scoped M-DELETE request starting at the lnpAudits Managed Object and removes the subscriptionAudit managed object instances successfully from the NPAC SMS Simulator, receives the M-EVENT-REPORTs for objectDeletion from the NPAC SMS Simulator and responds with the M-EVENT-REPORT confirmations to the NPAC SMS Simulator.

11.7.9 MOC.SOA.INV.CRE.subscriptionAudit

Purpose	To test the SOA's ability to handle the M-CREATE error response processingFailure error to a previously initiated and valid M-CREATE request for a subscriptionAudit managed object instance.
Severity	С
Severity Explanation	Should be performed if MOC.SOA.CAP.OP.CRE.subscriptionAudit is performed.
Prerequisites	MOC.SOA.CAP.OP.CRE.subscriptionAudit
Procedure	1. SOA sends a valid M-CREATE request for a subscriptionAudit

	object. 2. NPAC SMS Simulator responds with a processingFailure error.
Expected Results	The SOA correctly handles the error response processingFailure error from the NPAC SMS Simulator.

11.7.10 MOC.SOA.INV.GET.subscriptionAudit

Purpose	To test the SOA's ability to handle the M-GET error response
	getListError error to a previously initiated and valid M-GET request
	for all attributes of the subscriptionAudit object.
Severity	C
Severity Explanation	Should be performed if MOC.SOA.CAP.OP.GET.subscriptionAudit
, ,	is performed.
Prerequisites	MOC.SOA.CAP.OP.GET.subscriptionAudit
Procedure	1. SOA sends a valid M-GET request for all of a
	subscriptionAudit object.
	2. NPAC SMS Simulator responds with a getListError error.
Expected Results	The SOA correctly handles the error response getListError error
•	from the NPAC SMS Simulator.

11.7.11 MOC.SOA.INV.DEL.subscriptionAudit

Purpose	To test the SOA's ability to handle the M-DELETE error response processingFailure error to a previously initiated and valid M-DELETE request for a subscriptionAudit managed object instance.
Severity	С
Severity Explanation	Does not impact ability to provide LNP service. SOA may perform to verify error handling.
Prerequisites	MOC.SOA.CAP.OP.DEL.subscriptionAudit
Procedure	 SOA sends a valid M-DELETE request for a subscriptionAudit object. NPAC SMS Simulator responds with a processingFailure error.
Expected Results	The SOA correctly handles the error response processingFailure error from the NPAC SMS Simulator.

11.7.12 MOC.SOA.INV.NOT.subscriptionAuditResults

	1
Purpose	To test the SOA's ability to handle an invalid M-EVENT-REPORT
	for the subscriptionAuditResults notification. This will be
	accomplished by setting an attribute of that notification to an invalid
	value.
Severity	0
Severity Explanation	Should be performed if MOC.SOA.CAP.OP.CRE.subscriptionAudit
, , , , , , , , , , , , , , , , , , ,	is performed.
Prerequisites	MOC.SOA.CAP.OP.CRE.subscriptionAudit
Procedure	1. NPAC SMS Simulator issues the subscriptionAuditResults M-
	EVENT-REPORT containing an invalid attribute.
	2. SOA responds with an invalidArgumentValue error.
Expected Results	The SOA will correctly handle the invalid M-EVENT-REPORT
,	received from the NPAC SMS Simulator and return the

invalidArgumentValue error.

11.7.13 MOC.SOA.INV.NOT.subscriptionAudit-DiscrepancyReport

Purpose	To test the SOA's ability to handle an invalid M-EVENT-REPORT
•	for the subscriptionAudit-DiscrepancyReport notification. This will
	be accomplished by setting the auditDiscrepancyVersionId attribute
	of that notification to a value with invalid ASN syntax.
Severity	0
Severity Explanation	Should be performed if MOC.SOA.CAP.OP.CRE.subscriptionAudit
,	is performed.
Prerequisites	MOC.SOA.CAP.OP.CRE.subscriptionAudit
Procedure	NPAC SMS Simulator issues the subscriptionAudit-
	DiscrepancyReport M-EVENT-REPORT containing an invalid
	attribute.
	2. SOA responds with an invalidArgumentValue error.
Expected Results	The SOA will correctly handle the invalid M-EVENT-REPORT
,	received from the NPAC SMS Simulator and return the
	invalidArgumentValueEr error.

11.7.14 MOC.SOA.INV.CAP.OP.CRE.subscriptionAudit

Purpose	To verify a SOA can handle an error when an audit is created with an invalid subscriptionAuditRequestingSP.
Severity	0
Severity Explanation	Test case should be executed if the SOA will be supporting audits.
Prerequisites	
Procedure	 The SOA issues the M-CREATE for an audit with the subscriptionAuditRequestingSP set to a value other than a service provider id specified in the access control. The NPAC SMS Simulator responds with the M-CREATE error response of invalidAttributeValue.
Expected Results	The SOA successfully initiates the audit M-CREATE and successfully handles the M-CREATE error response.

11.8 <u>subscriptionVersionNPAC</u>

МО	SubscriptionVersionNPAC
Purpose	This section contains the test cases for the subscriptionVersionNPAC Managed Object Class pertaining to the SOA to NPAC SMS Interface, as part of the Managed Object Conformance testing of the NPAC SMS Interoperability Test.
Prerequisite	A SOA Management association function is established. A lnpNPAC-SMS and lnpSubscriptions Managed Object Instances have been created inherently.

11.8.1 MOC.SOA.CAP.OP.SET.OldSP.subscriptionVersionNPAC

Purpose	To test the SOA's ability to SET all the attributes which may be set
	by an old service provider for the subscriptionVersionNPAC
	managed object instance (i.e. subscriptionOldSP-DueDate, and

	subscriptionOldSP-Authorization) using an M-SET.
Severity	0
Severity Explanation	Impacts providing LNP service. Requirement exists but it may be satisfied using the Modify M-ACTION.
Prerequisites	MOC.SOA.CAP.ACT.lnpSubscriptionVersionOldSP-Create-Initial
Procedure	SOA sends a valid M-SET request for an existing subscriptionVersionNPAC object updating the subscriptionOldSSP-DueDate, subscriptionOldSP-Authorization and subscripitonStatusChangeCauseCode. NPAC SMS Simulator responds with a successful M-SET reply.
Expected Results	The SOA issues a valid M-SET request, updates the attribute values successfully in the NPAC SMS Simulator and correctly handles the M-SET response.

11.8.2 MOC.SOA.CAP.OP.SET.NewSP.subscriptionVersionNPAC

Purpose	To test the SOA's ability to SET all the attributes which may be set by a new service provider for the subscriptionVersionNPAC managed object instance (i.e. subscriptionLRN, subscriptionNewSP-DueDate, subscriptionCLASS-DPC, subscriptionCLASS-SSN, subscriptionLIDB-DPC, subscriptionLIDB-SSN, subscriptionCNAM-DPC, subscriptionCNAM-SSN, subscriptionISVM-DPC, subscriptionISVM-SSN, subscriptionEndUserLocationValue, subscriptionEndUserLocationType, and subscriptionBillingId).
Severity	0
Severity Explanation	Impacts providing LNP service. Requirement exists but it may be satisfied using the Modify M-ACTION.
Prerequisites	MOC.SOA.CAP.ACT.lnpSubscriptionVersionNewSP-Create-Initial
Procedure	SOA sends a valid M-SET request for an existing subscriptionVersionNPAC object updating the subscriptionLRN, subscriptionNewSP-DueDate, subscriptionCLASS-DPC, subscriptionCLASS-SSN, subscriptionLIDB-DPC, subscriptionLIDB-SSN, subscriptionCNAM-DPC, subscriptionCNAM-SSN, subscriptionISVM-DPC, subscriptionISVM-SSN, subscriptionEndUserLocationValue, subscriptionEndUserLocationValue, subscriptionEndUserLocationType, and subscriptionBillingId. NPAC SMS Simulator responds with a successful M-SET reply.
Expected Results	The SOA issues a valid M-SET request, updates the attribute values successfully in the NPAC SMS Simulator and correctly handles the M-SET response

11.8.3 MOC.SOA.CAP.OP.GET.subscriptionVersionNPAC

Purpose	To test the SOA's ability to GET all the attributes of the subscriptionVersionNPAC managed object instance.
Severity	0
Severity Explanation	Does not impact providing LNP service. Requirement exists in the

	GDMO. If not implemented SOA may not be able to retrieve any
	information on existing versions given that Audits are not
	implemented either.
Prerequisites	MOC.SOA.CAP.ACT.lnpSubscriptionVersionNewSP-Create-Initial
	and MOC.SOA.CAP.ACT.lnpSubscriptionVersionOldSP-Create-
	Initial
Procedure	1. SOA sends valid M-GET request for all attributes of the
	subscriptionVersionNPAC object.
	2. NPAC SMS Simulator responds with M-GET result containing
	all attributes.
Expected Results	The SOA issues a valid M-GET request and retrieves the attributes
,	successfully from the NPAC SMS Simulator.

11.8.4 MOC.SOA.CAP.NOT.subscriptionVersionOldSP-ConcurrenceRequest

Purpose	To test the SOA's ability to receive the subscriptionVersionNPAC's subscriptionVersionOldSP-ConcurrenceRequest notification.
Severity	C
Severity Explanation	Required if the SOA is supporting the subscriptionVersionOldSP-
	ConcurrenceRequest notification.
Prerequisites	MOC.SOA.CAP.ACT.lnpSubscriptionVersionNewSP-Create-Initial
Procedure	NPAC SMS Simulator issues the M-EVENT-REPORT, subscriptionVersionOldSP-ConcurrenceRequest. SOA confirms the M-EVENT-REPORT.
Expected Results	The SOA responds with a valid M-EVENT-REPORT confirmation.

11.8.5 MOC.SOA.CAP.NOT.subscriptionVersionOldSP-FinalConcurrenceWindowExpiration

Purpose	To test the SOA's ability to receive the subscriptionVersionNPAC's subscriptionVersionOldSP-FinalConcurrenceWindowExpiration notification.
Severity	C
Severity Explanation	Required if the SOA is supporting the subscriptionVersionOldSP-FinalConcurrenceWindowExpiration notification
Prerequisites	MOC.SOA.CAP.NOT.subscriptionVersionOldSP- ConcurrenceRequest
Procedure	NPAC SMS Simulator issues the M-EVENT-REPORT, subscriptionVersionOldSP-FinalConcurrenceWindowExpiration. SOA confirms the M-EVENT-REPORT.
Expected Results	The SOA responds with a valid M-EVENT-REPORT confirmation.

11.8.6 MOC.SOA.CAP.NOT.subscriptionVersionNewSP-CreateRequest

Purpose	To test the SOA's ability to receive the subscriptionVersionNPAC's subscriptionVersionNewSP-CreateRequest notification.
Severity	С

Severity Explanation	Required if the SOA is supporting the subscriptionVersionNewSP-CreateRequest notification.
Prerequisites	MOC.SOA.CAP.ACT.lnpSubscriptionVersionOldSP-Create-Initial
Procedure	NPAC SMS Simulator issues the M-EVENT-REPORT, subscriptionVersionNewSP-CreateRequest. SOA confirms the M-EVENT-REPORT.
Expected Results	The SOA responds with a valid M-EVENT-REPORT confirmation.

11.8.7 MOC.SOA.CAP.NOT.subscriptionVersionCancellationAcknowledgeReque st

Purpose	To test the SOA's ability to receive the subscriptionVersionNPAC's subscriptionVersionCancellationAcknowledgeRequest notification.
Severity	С
Severity Explanation	Required if the SOA is supporting the
, ,	CancellationAcknowledgeRequest notification
Prerequisites	MOC.SOA.CAP.ACT.subscriptionVersionOldSP-
•	CancellationAcknowledge
Procedure	1. NPAC SMS Simulator issues the M-EVENT-REPORT,
	subscriptionVersionCancellationAcknowledgeRequest.
	2. SOA confirms the M-EVENT-REPORT.
Expected Results	The SOA responds with a valid M-EVENT-REPORT confirmation.

11.8.8 MOC.SOA.CAP.NOT.subscriptionVersionDonorSP-CustomerDisconnectDate

Purpose	To test the SOA's ability to receive the subscriptionVersionNPAC's
•	subscriptionVersionDonorSP-CustomerDisconnectDate notification.
Severity	C
Severity Explanation	Required if the SOA is supporting the DonorSP-
	CustomerDisconnectDate notification.
Prerequisites	MOC.SOA.CAP.ACT.subscriptionVersionDisconnect
Procedure	NPAC SMS Simulator issues the M-EVENT-REPORT,
	subscriptionVersionDonorSP-CustomerDisconnectDate.
	2. SOA confirms the M-EVENT-REPORT.
Expected Results	The SOA responds with a valid M-EVENT-REPORT confirmation.

11.8.9 MOC.SOA.VAL.SET.SING.subscriptionVersionNPAC

Purpose	To test the SOA's ability to initiate a valid M-SET request for a single attribute, namely the subscriptionVersionOldSP attribute.
Severity	0
Severity Explanation	Impacts providing LNP service. Requirement exists but it may be satisfied using the Modify M-ACTION.
Prerequisites	A subscriptionVersionNPAC instance has been created.
Procedure	 SOA sends a valid M-SET request for the subscriptionVersionOldSP attribute. NPAC SMS Simulator sends a successful M-SET reply.

Expected Results	The SOA issues a valid M-SET request and updates the attribute]
,	successfully in the NPAC SMS Simulator.	

11.8.10 MOC.SOA.VAL.SET.MULT.subscriptionVersionNPAC

Purpose	To test the SOA's ability to initiate a valid M-SET request for a group of attributes, namely the subscriptionCNAM-DPC, subscriptionCNAM-SSN, subscriptionCLASS-DPC, subscriptionCLASS-SSN and subscriptionNewSP-DueDate, attributes.
Severity	0
Severity Explanation	Impacts providing LNP service. Requirement exists but it may be satisfied using the Modify M-ACTION.
Prerequisites	A subscriptionVersionNPAC instance has been created.
Procedure	SOA sends a valid M-SET request for the subscriptionCNAM-DPC, subscriptionCNAM-SSN, subscriptionCLASS-DPC, subscriptionCLASS-SSN and subscriptionNewSP-DueDate attributes. NPAC SMS Simulator sends a successful M-SET reply.
Expected Results	The SOA issues a valid M-SET request, updates the attributes successfully in the NPAC SMS Simulator and correctly handles the response.

11.8.11 MOC.SOA.VAL.GET.SCOP.subscriptionVersionNPAC

Purpose	To test the SOA's ability to initiate a valid scoped M-GET request for all attributes of a subscriptionVersionNPAC object. This will be accomplished by retrieving all the attributes starting at the base managed object lnpSubscriptions and ending at the subscriptionVersionNPAC level with filtering on the TN range.
Severity	0
Severity Explanation	Does not impact providing LNP service.
Prerequisites	Multiple subscriptionVersionNPAC managed object instances have been created.
Procedure	 SOA sends a valid scope and filtered M-GET request for all the attributes with a filter reflecting a TN-Range. NPAC SMS Simulator responds with the successful M-GET results containing the attribute.
Expected Results	The SOA issues a valid M-GET request and retrieves the attributes successfully from the NPAC SMS Simulator.

11.8.12 MOC.SOA.VAL.NOT.subscriptionVersionNewNPA-NXX

Purpose	To test the SOA's ability to receive the subscriptionVersionNewNPA-NXX notification from the NPAC SMS Simulator.
Severity	R
Severity Explanation	Needed to inform the SOA of opening a new NPA-NXX for porting.

Prerequisites	subscriptionVersionNPAC managed object instance exists.
Procedure	NPAC SMS Simulator issues the M-EVENT-REPORT, subscriptionVersionNewNPA-NXX.
	2. SOA confirms the M-EVENT-REPORT.
Expected Results	The SOA confirms the M-EVENT-REPORT request.

11.8.13 MOC.SOA.VAL.NOT.subscriptionVersionStatusAttributeValueChan ge

Purpose	To test the SOA's ability to handle the M-EVENT-REPORT for the
•	subscriptionVersionNPAC's
	subscriptionVersionStatusAttributeValueChange notification.
Severity	C
Severity Explanation	Required if the SOA is supporting the
	subscriptionVersionStatusAttributeValueChange notification.
Prerequisites	subscriptionVersionNPAC managed object instance exists.
Procedure	NPAC SMS Simulator issues
	subscriptionVersionStatusAttributeValueChange M-EVENT-
	REPORT with the subscriptionVersionStatus set to "download-
	failed" and the subscription Version Failed SP-List.
	2. SOA confirms the M-EVENT-REPORT.
Expected Results	The SOA confirms the M-EVENT-REPORT.

11.8.14 MOC.SOA.INV.SET.SING.subscriptionVersionNPAC

Purpose	To test the SOA's ability to handle the M-SET error response setListError error to a previously initiated and valid M-SET request for a single attribute, namely the subscriptionLRN attribute.
Severity	C
Severity Explanation	Should be performed if prerequisite is performed.
Prerequisites	MOC.SOA.VAL.SET.SING.subscriptionVersionNPAC
Procedure	SOA sends a valid M-SET request for the subscriptionLRN attribute. NPAC SMS Simulator responds with a setListError error response.
Expected Results	The SOA correctly handles the error response setListError error from the NPAC SMS Simulator.

11.8.15 MOC.SOA.INV.GET.subscriptionVersionNPAC

Purpose	To test the SOA's ability to handle the M-GET error response noSuchObjectInstance error to a previously initiated and valid M-GET request for all attributes of the subscriptionVersionNPAC object.
Severity	C
Severity Explanation	Should be performed if prerequisite is performed.
Prerequisites	MOC.SOA.CAP.OP.GET.subscriptionVersionNPAC
Procedure	SOA sends a valid M-GET request for all the attributes of the subscriptionVersionNPAC object. NPAC SMS Simulator responds with a noSuchObjectInstance

	error response.
Expected Results	The SOA correctly handles the error response noSuchObjectInstance error from the NPAC SMS Simulator.

11.8.16 MOC.SOA.INV.NOT.subscriptionVersionOldSp-ConcurrenceRequest

Purpose	To test the SOA's ability to handle the M-EVENT-REPORT for the subscriptionVersionNPAC's subscriptionVersionOldSP-ConcurrenceRequest notification with an invalid syntax for the subscriptionNewSP-DueDate attribute.
Severity	0
Severity Explanation	
Prerequisites	MOC.SOA.CAP.NOT.subscriptionVersionOldSP- ConcurrenceRequest
Procedure	 NPAC SMS Simulator issues the subscriptionVersionOldSP-ConcurrenceRequest M-EVENT-REPORT with invalid syntax for the subscriptionNewSP-DueDate. SOA rejects the M-EVENT-REPORT with invalidArgumentValue error.
Expected Results	The SOA rejects the M-EVENT-REPORT with invalid syntax.

11.8.17 MOC.SOA.INV.NOT.subscriptionVersionNewSP-CreateRequest

Purpose	To test the SOA's ability to handle the M-EVENT-REPORT for the subscriptionVersionNPAC's subscriptionVersionNewSP-CreateRequest notification with an invalid syntax for the subscriptionTN attribute.
Severity	0
Severity Explanation	
Prerequisites	MOC.SOA.CAP.NOT.subscriptionVersionNewSP-CreateRequest
Procedure	 NPAC SMS Simulator issues the subscriptionVersionNewSP- CreateRequest M-EVENT-REPORT with invalid syntax for the subscriptionTN. SOA rejects the M-EVENT-REPORT with invalidArgumentValue error.
Expected Results	The SOA rejects the M-EVENT-REPORT with invalid syntax.

11.8.18 MOC.SOA.INV.NOT.subscriptionVersionCancellationAcknowledgeR equest

Purpose	To test the SOA's ability to handle the M-EVENT-REPORT for the subscriptionVersionNPAC's subscriptionVersionCancellationAcknowledgeRequest notification with an invalid syntax for the subscriptionVersionId attribute.
Severity	0
Severity Explanation	
Prerequisites	MOC.SOA.CAP.NOT.subscriptionVersionCancellationAcknowledg

	eRequest
Procedure	NPAC SMS Simulator issues subscriptionVersionCancellationAcknowledgeRequest M- EVENT-REPORT with invalid syntax for the subscriptionVersionId. SOA rejects the M-EVENT-REPORT with invalidArgumentValue error.
Expected Results	The SOA rejects the M-EVENT-REPORT with invalid syntax.

11.8.19 MOC.SOA.INV.NOT.subscriptionVersionDonorSP-CustomerDisconnectDate

Purpose	To test the SOA's ability to handle the M-EVENT-REPORT for the subscriptionVersionNPAC's subscriptionVersionDonorSP-CustomerDisconnectDate notification with an invalid syntax for the subscriptionEffectiveReleaseDate attribute.
Severity	0
Severity Explanation	
Prerequisites	MOC.SOA.CAP.NOT.subscriptionVersionDonorSP- CustomerDisconnectDate
Procedure	NPAC SMS Simulator issues subscriptionVersionDonorSP-CustomerDisconnectDate M-EVENT-REPORT with invalid syntax for the subscriptionEffectiveReleaseDate attribute. SOA rejects the M-EVENT-REPORT with invalidArgumentValue error.
Expected Results	The SOA rejects the M-EVENT-REPORT with invalid syntax.

11.8.20 MOC.SOA.INV.NOT.subscriptionVersionStatusAttributeValueChang e

Purpose	To test the SOA's ability to handle the M-EVENT-REPORT for the subscriptionVersionNPAC's subscriptionVersionStatusAttributeValueChange notification with an invalid syntax for the subscriptionVersionAttributeValueChangeInfo attribute.
Severity	0
Severity Explanation	
Prerequisites	InpSubscriptions test cases .
Procedure	NPAC SMS Simulator issues subscriptionVersionStatusAttributeValueChange M-EVENT- REPORT with invalid syntax for the subscriptionVersionAttributeValueChangeInfo attribute. 4. SOA rejects the M-EVENT-REPORT with invalidArgumentValue error.
Expected Results	The SOA rejects the M-EVENT-REPORT with invalid syntax.

11.8.21 MOC.SOA.INV.NOT. attributeValueChange.subscriptionVersion

Purpose	To test the SOA's ability to handle the M-EVENT-REPORT for the subscriptionVersionNPAC's attributeValueChange notification for a subscriptionVersion with an invalid accessControl attribute.
Severity	0
Severity Explanation	
Prerequisites	InpSubscriptions test cases
Procedure	 NPAC SMS Simulator issues attributeValueChange M-EVENT-REPORT for a subscriptionVersion with invalid syntax for the accessControl attribute. SOA rejects the M-EVENT-REPORT with an abort.
Expected Results	The SOA rejects the M-EVENT-REPORT with an abort.

11.8.22 MOC.SOA.INV.NOT.subscriptionVersionNewNPA-NXX

Purpose	To test the SOA's ability to handle the M-EVENT-REPORT request for an invalid subscriptionVersionNewNPA-NXX notification with an invalid NPA-NXX value.
Severity	0
Severity Explanation	
Prerequisites	MOC.SOA.VAL.NOT.subscriptionVersionNewNPA-NXX
Procedure	NPAC SMS Simulator issues subscriptionVersionNewNPA- NXX M-EVENT-REPORT with invalid value for the NPA- NXX attribute. SOA rejects the M-EVENT-REPORT with an invalidArgumentValue error.
Expected Results	The SOA responds with the appropriate M-EVENT-REPORT error.

11.8.23 MOC.SOA.BND.GET.MAXQ.subscriptionVersionNPAC

Purpose	To test the behaviour of the SOA when it receives the responses to a valid scoped M-GET, which will return the maximum number of records specified in the NPAC SMS Simulator <max query="" subscriber=""> parameter. This will be accomplished by requesting all attributes for all the existing subscriptionVersionNPAC managed object instances.</max>
Severity	R
	1
Severity Explanation	Must be performed filter M-GET requests are being used.
Prerequisites	The number of subscriptionVersionNPAC managed object instances created is equal to the Max Subscriber Query parameter.
Procedure	 SOA sends a valid scoped and filtered M-GET request for subscriptionVersionNPAC data that will result in 'Max Subscriber Query' objects being returned. NPAC SMS Simulator responds with the linked M-GET result replies.
Expected Results	The SOA handles the linked replies properly.

11.8.24 MOC.SOA.INV.QUERY.SCOPED.subscriptionVersion

Purpose	To verify a SOA can handle a scoped filtered query request error.
Severity	С
Severity Explanation	Test case should be executed if the SOA will be supporting scoped filtered subscription version query.
Prerequisites	subscriptionVersionNPACs exist on the NPAC SMS Simulator.
Procedure	 The SOA issues a scoped filtered M-GET for a range of subscription versions where the number of subscription versions that satisfy the request exceeds the maximum number of subscription versions that can be retrieved in one request. The NPAC SMS Simulator responds with an M-GET error of complexityLimitation.
Expected Results	The SOA successfully initiates the M-GET and successfully handles the M-GET error response.
	the M-GET chai response.

11.8.25 MOC.SOA.CAP.NOT.subscriptionVersionNewSP-FinalConcurrenceWindowExpiration

Purpose	To test the SOA's ability to accept a subscriptionVersionNewSP-
	FinalConcurrenceWindowExpiration M-EVENT-REPORT.
Severity	C
Severity Explanation	Required if SOA will be supporting the subscriptionVersionNewSP-FinalConcurrenceWindowExpiration notification.
Prerequisites	A subscription version exists on the NPAC SMS with a subscriptionVersionStatus of 'pending' that was created by the Old Service Provider.
Procedure	NPAC SMS Simulator issues the subscriptionVersionNewSP-FinalConcurrenceWindowExpiration to the New Service Provider. SOA confirms the M-EVENT-REPORT.
Expected Results	The SOA receives the NPAC SMS Simulator's M-EVENT-REPORT and acknowledges it correctly.

11.8.26 MOC.SOA.INV.NOT.subscriptionVersionNewSP-FinalConcurrenceWindowExpiration

Purpose	To test the SOA's ability to accept a subscriptionVersionNewSP-
•	FinalConcurrenceWindowExpiration M-EVENT-REPORT with
	invalid syntax for the version-create-request field.
Severity	0
Severity Explanation	
Prerequisites	A subscription version exists on the NPAC SMS with a
4	subscriptionVersionStatus of 'pending' that was created by the Old
	Service Provider.
Procedure	NPAC SMS Simulator issues the subscriptionVersionNewSP-
	FinalConcurrenceWindowExpiration to the New Service
	Provider.
	2. SOA rejects the M-EVENT-REPORT with an invalidArgument
	error.
Expected Results	The SOA receives the NPAC SMS Simulator's M-EVENT-REPORT
	and returns the invalidArgument or other appropriate error.

11.9 serviceProvNetwork

МО	serviceProvNetwork
Purpose	This section contains the test cases for the serviceProvNetwork Managed Object Class pertaining to the SOA to NPAC SMS Interface, as part of the Managed Object Conformance testing of the NPAC SMS Interoperability Test.
Prerequisite	A Service Provider and Network Data Management association function is established. A lnpNPAC-SMS and a lnpNetwork Managed Object Instances have been created inherently. A serviceProvNetwork Managed Object Instance has been created locally by the NPAC SMS Simulator Personnel.

11.9.1 MOC.SOA.CAP.OP.GET.serviceProvNetwork

Purpose	To test the SOA's ability to GET all the attributes of the
•	serviceProvNetwork managed object instance.
Severity	0
Severity Explanation	Does not impact ability to provide LNP service.
Prerequisites	
Procedure	 SOA issues a valid M-GET request to retrieve all attributes of the serviceProvNetwork object. NPAC SMS Simulator responds with a successful M-GET reply containing all the attributes.
Expected Results	The SOA issues a valid M-GET request and retrieves the attributes (i.e. serviceProvId and serviceProvName) successfully from the NPAC SMS Simulator.

11.9.2 MOC.SOA.INV.GET.serviceProvNetwork

Purpose	To test the SOA's ability to handle the M-GET error response invalidFilter error to a previously initiated and valid scoped M-GET request for all the attributes of the serviceProvNetwork object.
Severity	O
Severity Explanation	Does not impact ability to provide LNP service. SOA may perform to verify error-handling capabilities.
Prerequisites	MOC.SOA.CAP.OP.GET.serviceProvNetwork
Procedure	 SOA issues a valid M-GET request to retrieve all the attributes of the serviceProvNetwork object. NPAC SMS Simulator responds with an invalidFilter error.
Expected Results	The SOA correctly handles the error response invalidFilter error from the NPAC SMS Simulator.

11.10 <u>serviceProvNPA-NXX</u>

МО	serviceProvNPA-NXX
Purpose This section contains the test cases for the serviceProvNPA-NXX Ma	
'	Object Class pertaining to the SOA to NPAC SMS Interface, as part of the

	Managed Object Conformance testing of the NPAC SMS Interoperability Test.
Prerequisite	A Service Provider and Network Data Management association function is established. A lnpNPAC-SMS and a lnpNetwork Managed Object Instances have been created inherently.

11.10.1 MOC.SOA.CAP.OP.GET.serviceProvNPA-NXX

Purpose	To test the SOA's ability to GET all the attributes of the serviceProvNPA-NXX managed object instance.
Severity	0
Severity Explanation	Does not impact ability to provide LNP service.
Prerequisites	MOC.SOA.VAL.CRE.AUTO.serviceProvNPA-NXX
Procedure	 SOA issues a valid M-GET request for all attributes of the serviceProvNPA-NXX object. NPAC SMS Simulator responds with a successful M-GET result containing all attributes.
Expected Results	The SOA issues a valid M-GET request and retrieves the attributes successfully from the NPAC SMS Simulator.

11.10.2 MOC.SOA.CAP.OP.DEL.serviceProvNPA-NXX

Purpose	To test the SOA's ability to DELETE an existing serviceProvNPA-
. a.pooc	NXX managed object instance from the NPAC SMS Simulator.
Severity	С
Severity Explanation	Does not impact ability to provide LNP service. Required if the
	SOA is managing network data.
Prerequisites	MOC.SOA.VAL.CRE.AUTO.serviceProvNPA-NXX
Procedure	SOA issues a valid M-DELETE request for a serviceProvNPA- NXX object.
	2. NPAC SMS Simulator responds with a successful M-DELETE reply.
Expected Results	The SOA issues a valid M-DELETE request and removes the object
•	successfully from the NPAC SMS Simulator.

11.10.3 MOC.SOA.VAL.CRE.AUTO.serviceProvNPA-NXX

Purpose	To test the SOA's ability to CREATE a serviceProvNPA-NXX managed object instance in the NPAC SMS Simulator using automatic instance naming.
Severity	C
Severity Explanation	Does not impact ability to provide LNP service. Required if the SOA is managing network data.
Prerequisites	
Procedure	 SOA issues a valid M-CREATE request for a serviceProvNPA- NXX object. NPAC SMS Simulator responds with a successful M-CREATE reply.
Expected Results	The SOA issues a valid M-CREATE request with automatic

instance naming causing the serviceProvNPA-NXX instance to be
created and its attributes populated successfully in the NPAC SMS
Simulator.

11.10.4 MOC.SOA.VAL.GET.SCOP.FILT.serviceProvNPA-NXX

Purpose	To test the SOA's ability to initiate a valid scoped and filtered M-GET request for all attributes. This will be accomplished by retrieving all the attributes for an agreed upon NPA-NXX value (i.e. filtering on serviceProvNPA-NXX-Value equal to that number) starting at the base managed object serviceProvNetwork and ending
	at the serviceProvNPA-NXX.
Severity	0
Severity Explanation	Does not impact ability to provide LNP service. This functionality
, ,	may be satisfied by getting one instance at a time.
Prerequisites	A serviceProvNPA-NXX managed object instance with agreed upon
•	serviceProvNPA-NXX-Value attribute has been created.
Procedure	SOA issues a valid scope and filtered M-GET request for the attributes of a serviceProvNPA-NXX object with a filter for equality on the serviceProvNPA-NXX-Value.
	2. NPAC SMS Simulator responds with a successful M-GET reply
	containing the attributes.
Expected Results	The SOA issues a valid M-GET request and retrieves the attributes successfully from the NPAC SMS Simulator.

11.10.5 MOC.SOA.VAL.DEL.SCOP.FILT.serviceProvNPA-NXX

Purpose	To test the SOA's ability to initiate a valid scoped and filtered M-DELETE request for an existing managed object instance. This will be accomplished by deleting the serviceProvNPA-NXX instance with the serviceProvNPA-NXX-Value equal to a specified value starting at the base managed object serviceProvNetwork and ending at the serviceProvNPA-NXX.
Severity	0
Severity Explanation	Does not impact ability to provide LNP service. This functionality may be satisfied by deleting one instance at a time.
Prerequisites	A serviceProvNPA-NXX managed object instance with above serviceProvNPA-NXX-Value attribute has been created.
Procedure	 SOA issues a valid scope and filtered M-DELETE request for the serviceProvNPA-NXX object with a filter for equality on the serviceProvNPA-NXX-Value. NPAC SMS Simulator responds with a successful M-DELETE reply.
Expected Results	The SOA issues a valid M-DELETE request with a correct scope and filter causing the above instance to be removed successfully from the NPAC SMS Simulator.

11.10.6 MOC.SOA.INV.CRE.serviceProvNPA-NXX

Purpose	To test the SOA's ability to handle the M-CREATE error response
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	duplicateManagedObjectInstance error to a previously initiated and valid M-CREATE request for a serviceProvNPA-NXX.
Severity	С
Severity Explanation	Must be performed if prerequisite is performed.
Prerequisites	MOC.SOA.VAL.CRE.AUTO.serviceProvNPA-NXX
Procedure	SOA issues an M-CREATE request for the serviceProvNPA- NXX object. NPAC SMS Simulator responds with a duplicateManagedObjectInstance error.
Expected Results	The SOA correctly handles the error response duplicateManagedObjectInstance error from the NPAC SMS Simulator.

11.10.7 MOC.SOA.INV.GET.serviceProvNPA-NXX

Purpose	To test the SOA's ability to handle the M-GET error response operationCancelled error to a previously initiated and valid M-GET request for all the attributes of the serviceProvNPA-NXX object.
Severity	С
Severity Explanation	Must be performed if prerequisite is performed.
Prerequisites	MOC.SOA.CAP.OP.GET.serviceProvNPA-NXX
Procedure	 SOA issues a valid M-GET request for all the attributes of a serviceProvNPA-NXX object. NPAC SMS Simulator responds with an operationCancelled error.
Expected Results	The SOA correctly handles the error response operationCancelled error from the NPAC SMS Simulator.

11.10.8 MOC.SOA.INV.DEL.serviceProvNPA-NXX

Purpose	To test the SOA's ability to handle the M-DELETE error response processingFailure error to a previously initiated and valid M-DELETE request for an existing serviceProvNPA-NXX managed object instance.
Severity	C
Severity Explanation	Must be performed if prerequisite is performed.
Prerequisites	MOC.SOA.CAP.OP.DEL.serviceProvNPA-NXX
Procedure	 SOA issues a valid M-DELETE request for a serviceProvNPA- NXX object. NPAC SMS Simulator responds with a processingFailure error.
Expected Results	The SOA correctly handles the error response processingFailure error from the NPAC SMS Simulator.

11.11 serviceProvLRN

МО	serviceProvLRN
Purpose	This section contains the test cases for the serviceProvLRN Managed Object Class pertaining to the SOA to NPAC SMS Interface, as part of the Managed

	Object Conformance testing of the NPAC SMS Interoperability Test.
Prerequisite	A Service Provider and Network Data Management is established. A lnpNPAC-SMS and a lnpNetwork Managed Object Instances have been created inherently.

11.11.1 MOC.SOA.CAP.OP.GET.serviceProvLRN

Purpose	To test the SOA's ability to GET all the attributes of the
,	serviceProvLRN managed object instance.
Severity	0
Severity Explanation	Does not impact ability to provide LNP service.
Prerequisites	MOC.SOA.VAL.CRE.AUTO.serviceProvLRN
Procedure	 SOA issues a valid M-GET request to retrieve all attributes of a serviceProvLRN. NPAC SMS Simulator responds with the M-GET result.
Expected Results	The SOA issues a valid M-GET request and retrieves the attributes successfully from the NPAC SMS Simulator.

11.11.2 MOC.SOA.CAP.OP.DEL.serviceProvLRN

Purpose	To test the SOA's ability to DELETE an existing serviceProvLRN managed object instance from the NPAC SMS Simulator.
Severity	C
Severity Explanation	Does not impact ability to provide LNP service. Required if the SOA is managing network data.
Prerequisites	MOC.SOA.VAL.CRE.AUTO.serviceProvLRN
Procedure	 SOA issues a valid M-DELETE request for a serviceProvLRN. NPAC SMS Simulator responds with the successful M-DELETE reply.
Expected Results	The SOA issues a valid M-DELETE request and removes the object successfully from the NPAC SMS Simulator.

11.11.3 MOC.SOA.VAL.CRE.AUTO.serviceProvLRN

Purpose	To test the SOA's ability to CREATE a serviceProvLRN managed object instance in the NPAC SMS Simulator using automatic instance naming.
Severity	C
Severity Explanation	Does not impact ability to provide LNP service. Required if SOA is managing network data.
Prerequisites	
Procedure	 SOA issues a valid M-CREATE request for a serviceProvLRN. NPAC SMS Simulator responds with the successful M-CREATE reply.
Expected Results	The SOA issues a valid M-CREATE request with automatic instance naming causing the serviceProvLRN instance to be created and its attributes populated successfully in the NPAC SMS Simulator.

11.11.4 MOC.SOA.VAL.GET.SCOP.FILT.serviceProvLRN

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Purpose	To test the SOA's ability to initiate a valid scoped and filtered M-
•	GET request for a single attribute. This will be accomplished by
	retrieving all the attributes for an agreed upon LRN value (i.e.
	filtering on serviceProvLRN-Value equal to that number) starting at
	the serviceProvNetwork and ending at the serviceProvLRN.
Severity	0
Severity Explanation	Does not impact ability to provide LNP service. This functionality
	may be satisfied by getting one instance at a time.
Prerequisites	A serviceProvLRN managed object instance with above
4	serviceProvLRN-Value attribute has been created.
Procedure	1. SOA issues a valid M-GET request for the attributes of a
	serviceProvLRN.
	2. NPAC SMS Simulator responds with the successful M-GET
	result containing the attribute.
Expected Results	The SOA issues a valid M-GET request and retrieves the attribute
	successfully from the NPAC SMS Simulator.

11.11.5 MOC.SOA.VAL.DEL.SCOP.FILT.serviceProvLRN

Purpose	To test the SOA's ability to initiate a valid scoped and filtered M-DELETE request for an existing managed object instance. This will be accomplished by deleting all the serviceProvLRN instances with the serviceProvLRN-Value equal to a specified LRN value starting at the serviceProvNetwork and ending at the serviceProvLRN.
Severity	0
Severity Explanation	Does not impact ability to provide LNP service. May be used to satisfy the requirements instead of Test Case MOC.SOA.CAP.OP.DEL.serviceProvLRN.
Prerequisites	A serviceProvLRN managed object instance with above serviceProvLRN-Value attribute have been created.
Procedure	SOA issues a valid M-DELETE request for the serviceProvLRN-Value attribute of a serviceProvLRN with the filter set to equality for the specified LRN value. NPAC SMS Simulator responds with the successful M-DELETE reply.
Expected Results	The SOA issues a valid M-DELETE request with a correct scope and filter causing the above instance to be removed successfully from the NPAC SMS Simulator and successfully handles the reply.

11.11.6 MOC.SOA.INV.CRE.serviceProvLRN

Purpose	To test the SOA's ability to handle the M-CREATE error response duplicateManagedObjectInstance error to a previously initiated and valid M-CREATE request for a serviceProvLRN.
Severity	C
Severity Explanation	Must be performed if prerequisite is performed.
Prerequisites	MOC.SOA.VAL.CRE.AUTO.serviceProvLRN

Procedure	SOA issues a valid M-CREATE request a serviceProvLRN. NPAC SMS Simulator responds with the duplicateManagedObjectInstance error.
Expected Results	The SOA correctly handles the error response duplicateManagedObjectInstance error from the NPAC SMS Simulator.

11.11.7 MOC.SOA.INV.GET.serviceProvLRN

Purpose	To test the SOA's ability to handle the M-GET error response operationCancelled error to a previously initiated and valid M-GET request for all the attributes of the serviceProvLRN object.
Severity	С
Severity Explanation	Must be performed if prerequisite is performed.
Prerequisites	MOC.SOA.CAP.OP.GET.serviceProvLRN
Procedure	 SOA issues a valid M-GET request for all the attributes of a serviceProvLRN object. NPAC SMS Simulator responds with the operationCancelled error.
Expected Results	The SOA correctly handles the error response operationCancelled error from the NPAC SMS Simulator.

11.11.8 MOC.SOA.INV.DEL.serviceProvLRN

Purpose	To test the SOA's ability to handle the M-DELETE error response processingFailure error to a previously initiated and valid M-DELETE request for an existing serviceProvLRN managed object instance.
Severity	С
Severity Explanation	Must be performed if prerequisite is performed.
Prerequisites	MOC.SOA.CAP.OP.DEL.serviceProvLRN
Procedure	 SOA issues a valid M-DELETE request for a serviceProvLRN object. NPAC SMS Simulator responds with the processingFailure error.
Expected Results	The SOA correctly handles the error response processingFailure error from the NPAC SMS Simulator.

11.12 numberPoolBlockNPAC

МО	numberPoolBlockNPAC
Purpose	This section contains the test cases for the numberPoolBlockNPAC Managed Object Class pertaining to the SOA to NPAC SMS Interface as part of the
	MOC testing of the NPAC SMS Simulator Interoperability Test.
Prerequisite	A LSMS Network and Subscription Data Download Management
	association function is established.
	 InpNPAC-SMS and InpSubscription Managed Object Instances exist.

11.12.1 MOC.SOA.CAP.OP.GET.numberPoolBlockNPAC

Purpose	Verify the SOA's ability to GET all the attributes of the
*	numberPoolBlockNPAC managed object instance.
Severity	0
Severity Explanation	Does not impact ability to provide LNP service.
Prerequisites	A numberPoolBlockNPAC object exists on the NPAC SMS Simulator.
Procedure	SOA issues a valid M-GET request for all attributes of the numberPoolBlockNPAC object. NPAC SMS Simulator responds with a successful M-GET result containing all attributes.
Expected Results	SOA issues a valid M-GET request and retrieves the attributes successfully from the NPAC SMS Simulator.

11.12.2 MOC.SOA.CAP.OP.SET.numberPoolBlockNPAC

Durnoss	Verify the SOA's ability to SET all the modifiable attributes of the
Purpose	
	numberPoolBlockNPAC managed object instance.
Severity	C
Severity Explanation	Does not impact ability to provide LNP service. Required if the
,	SOA is supporting modification of number pool blocks.
Prerequisites	A numberPoolBlockNPAC object exists on the NPAC SMS
,	Simulator.
Procedure	1. SOA issues a valid M-SET request for all modifiable attributes
	of the numberPoolBlockNPAC object.
	2. NPAC SMS Simulator responds with a successful M-SET result
	containing all modifiable attributes.
Expected Results	SOA issues a valid M-SET request and updates the attributes
•	successfully on the NPAC SMS Simulator.

11.12.3 MOC.SOA.VAL.GET.SCOP.numberPoolBlockNPAC

Purpose	Verify the SOA's ability to initiate a valid scoped M-GET request for all the attributes of the numberPoolBlockNPAC managed object instance. This will be accomplished by retrieving all the attributes starting at the base managed object lnpSubscriptions and ending at the numberPoolBlockNPAC.
Severity	0
Severity Explanation	Does not impact ability to provide LNP service.
Prerequisites	Multiple numberPoolBlockNPAC objects exist on the NPAC SMS Simulator.
Procedure	 SOA issues a valid scoped and filtered M-GET request for the numberPoolBlockNPAC object(s). NPAC SMS Simulator responds with a successful M-GET result containing all attributes.
Expected Results	SOA issues a valid M-GET request and retrieves the object(s) successfully from the NPAC SMS Simulator.

11.12.4 MOC.SOA.INV.GET.numberPoolBlockNPAC

Purpose	Verify the SOA's ability to handle an error response,
•	processingFailure error, to a previously initiated and valid M-GET

	request for all the attributes of a numberPoolBlockNPAC managed
	object instance.
Severity	0
Severity Explanation	Required if MOC.SOA.CAP.OP.GET.numberPoolBlockNPAC is performed.
Prerequisites	A numberPoolBlockNPAC exists on the NPAC SMS Simulator.
Procedure	 SOA issues a valid M-GET request for all attributes of the numberPoolBlockNPAC object. NPAC SMS Simulator responds with a processingFailure error.
Expected Results	SOA successfully handles the error response from the NPAC SMS Simulator.

11.12.5 MOC.SOA.INV.SET.numberPoolBlockNPAC

Purpose	Verify the SOA's ability to handle an error response, processingFailure error, to a previously initiated and valid M-SET request for all the attributes of a numberPoolBlockNPAC managed object instance.
Severity	С
Severity Explanation	Required if MOC.SOA.CAP.OP.SET.numberPoolBlockNPAC is performed.
Prerequisites	A numberPoolBlockNPAC exists on the NPAC SMS Simulator.
Procedure	 SOA issues a valid M-SET request to update all attributes of the numberPoolBlockNPAC object. NPAC SMS Simulator responds with a processingFailure error.
Expected Results	SOA successfully handles the error response from the NPAC SMS Simulator.

11.12.6 MOC.SOA.INV.GET.SCOP.numberPoolBlockNPAC

Purpose	Verify the SOA's ability to handle an error response, processingFailure, to a previously initiated and valid scope and filtered M-GET request for all the attributes of a numberPoolBlockNPAC managed object instance.
Severity	0
Severity Explanation	Required if MOC.SOA.CAP.OP.GET.SCOP.numberPoolBlockNPAC is performed.
Prerequisites	A numberPoolBlockNPAC exists on the NPAC SMS Simulator.
Procedure	 SOA issues a valid scope and filtered M-GET request for all attributes of the numberPoolBlockNPAC object. NPAC SMS Simulator responds with a processingFailure error.
Expected Results	SOA successfully handles the error response from the NPAC SMS Simulator.

11.13 serviceProvNPA-NXX-X

МО	numberPoolBlockNPAC
Purpose	This section contains the test cases for the serviceProvNPA-NXX-X Managed Object Class pertaining to the SOA to NPAC SMS Interface as part of the MOC testing of the NPAC SMS Simulator Interoperability Test.
Prerequisite	A SOA Service Provider and Network Data Download Management

	association function is established.
•	InpNPAC-SMS and InpNetwork Managed Object Instances exist.

11.13.1 MOC.SOA.CAP.OP.GET.serviceProvNPA-NXX-X

Purpose	Verify the SOA's ability to GET all the attributes of the
•	serviceProvNPA-NXX-X managed object instance.
Severity	0
Severity Explanation	Does not impact ability to provide LNP service.
Prerequisites	A serviceProvNPA-NXX-X object exists on the NPAC SMS Simulator.
Procedure	 SOA issues a valid M-GET request for all attributes of the serviceProvNPA-NXX-X object. NPAC SMS Simulator responds with a successful M-GET result containing all attributes.
Expected Results	SOA issues a valid M-GET request and retrieves the attributes successfully from the NPAC SMS Simulator.

11.13.2 MOC.SOA.VAL.GET.SCOP.serviceProvNPA-NXX-X

Purpose	Verify the SOA's ability to initiate a valid scoped M-GET request for all the attributes of the serviceProvNPA-NXX-X managed object instance. This will be accomplished by retrieving all the attributes starting at the base managed object lnpSubscriptions and ending at the serviceProvNPA-NXX-X.
Severity	0
Severity Explanation	Does not impact ability to provide LNP service.
Prerequisites	Multiple numberPoolBlockNPAC objects exist on the NPAC SMS Simulator.
Procedure	 SOA issues a valid scoped and filtered M-GET request for the serviceProvNPA-NXX-X object(s). NPAC SMS Simulator responds with a successful M-GET result containing all attributes.
Expected Results	SOA issues a valid M-GET request and retrieves the object(s) successfully from the NPAC SMS Simulator.

11.13.3 MOC.SOA.INV.GET.serviceProvNPA-NXX-X

Purpose	Verify the SOA's ability to handle an error response, processingFailure error, to a previously initiated and valid M-GET request for all the attributes of a serviceProvNPA-NXX-X managed object instance.
Severity	0
Severity Explanation	Required if MOC.SOA.CAP.OP.GET.serviceProvNPA-NXX-X is performed.
Prerequisites	A serviceProvNPA-NXX-X exists on the NPAC SMS Simulator.
Procedure	 SOA issues a valid M-GET request for all attributes of the serviceProvNPA-NXX-X object. NPAC SMS Simulator responds with a processingFailure error.
Expected Results	SOA successfully handles the error response from the NPAC SMS Simulator.

11.13.4 MOC.SOA.INV.GET.SCOP.serviceProvNPA-NXX-X

Purpose	Verify the SOA's ability to handle an error response, processingFailure, to a previously initiated and valid scope and filtered M-GET request for all the attributes of a serviceProvNPA-NXX-X managed object instance.
Severity	0
Severity Explanation	Required if MOC.SOA.CAP.OP.GET.SCOP.serviceProvNPA-NXX-X is performed.
Prerequisites	A serviceProvNPA-NXX-X exists on the NPAC SMS Simulator.
Procedure	 SOA issues a valid scope and filtered M-GET request for all attributes of the serviceProvNPA-NXX-X object. NPAC SMS Simulator responds with a processingFailure error.
Expected Results	SOA successfully handles the error response from the NPAC SMS Simulator.

12 NPAC SMS to SOA MOC Test Cases

12.1 InpSOA

МО	lnpSOA	
Purpose	These test cases are for the lnpSOA Managed Object Class pertaining to the NPAC SMS to SOA Interface, as part of the MO Conformance testing of the interoperability test. This capability test package checks the SOA existence and basic validity of the specified capabilities. This object is used to support network data download to the SOA.	
Prerequisite	 A NPAC Management association function is established with the NPAC SMS Simulator. The SOA has successfully completed the Stack-to-Stack Interoperability testing. 	

12.1.1 MOC.NPAC.CAP.OP.GET.InpSOA

Purpose	Verifies the SOA capability to correctly respond to a lnpSOA MO class M-GET request with all the attributes.
Severity	0
Severity Explanation	Needed for NPAC SMS Simulator to verify correct creation of inherent instance by SOA for network data download. The NPAC SMS will not issue such a request.
Prerequisites	A lnpSOA instance has been inherently created on the SOA.
Procedure	 NPAC sends an M-GET request for lnpSOA. SOA responds with getResult.
Expected Results	The NPAC SMS Simulator receives a getResult with the correct attribute information for all attributes.

12.1.2 MOC.NPAC.INV.CRE.INH.InpSOA

Purpose	This test case checks the SOA ability of responding to a semantically invalid CMIP request. The NPAC SMS Simulator sends M-CREATE request intending to create an instance that can only be created inherently on the SOA.
Severity	0
Severity Explanation	Needed to test error-handling capabilities of SOA if the SOA supports network data download. NPAC will not issue such a request.
Prerequisites	A lnpSOA instance exists on the SOA.
Procedure	NPAC SMS Simulator sends M-CREATE request. SOA responds with an error response of processingFailure or duplicateManagedObjectInstance error.
Expected Results	The NPAC SMS Simulator receives an M-CREATE error response. No instance is created on the SOA.

12.1.3 MOC.NPAC.INV.SET.InpSOA

Purpose	This test case checks the SOA ability to respond to a semantically
	invalid CMIP request. The NPAC SMS Simulator sends out an M-

	SET intending to override the read-only attribute lnpSOA-Name.
Severity	0
Severity Explanation	Needed to test error-handling capabilities of SOA if the SOA supports network data download. NPAC SMS may not issue such a request.
Prerequisites	A lnpSOA instance exists on the SOA.
Procedure	 NPAC SMS Simulator sends the M-SET request. SOA responds with setListError error response.
Expected Results	The NPAC SMS Simulator receives a setListError error response. The attribute is not updated.

12.1.4 MOC.NPAC.INV.DEL.InpSOA

Purpose	This test case checks the SOA ability to respond to a semantically invalid CMIP request. The NPAC SMS Simulator sends out an M-DELETE request intending to delete the lnpSOA instance.
Severity	0
Severity Explanation	Needed to test error-handling capabilities of SOA if the SOA supports network data download.
Prerequisites	A lnpSOA instance exists on the SOA.
Procedure	 NPAC SMS Simulator sends the M-DELETE request. SOA responds with processingFailureEr error response.
Expected Results	The NPAC SMS Simulator receives a processingFailureEr error response. No instance is removed from the SOA.

12.2 InpNetwork

МО	InpNetwork
Purpose	This section contains test cases for the InpNetwork Managed Object Class pertaining to the NPAC SMS manager to SOA Interface, as part of the MO Conformance testing of the interoperability test. This capability test package checks the SOA existence and basic validity of the specified capabilities. This object is used to support network data download to the SOA.
Prerequisite	 A NPAC Management association function is established. The agent has successfully completed the Stack-to-Stack Interoperability testing.

12.2.1 MOC.NPAC.SOA.CAP.OP.GET.InpNetwork

Purpose	Tests the capability of the SOA to correctly respond to an M-GET request for the lnpNetwork MO class. The NPAC SMS Simulator will get all attributes of the MO instance.
Severity	0
Severity Explanation	Needed for the NPAC SMS Simulator to verify correct creation of inherent instance by SOA if the SOA is supporting network data download.
Prerequisites	A lnpNetwork instance exists on SOA.
Procedure	NPAC SMS Simulator sends an M-GET request for lnpNetwork for all attributes. SOA responds with getResult.
Expected Results	The NPAC SMS Simulator receives a getResult with all attribute

values.

12.2.2 MOC.NPAC.SOA.INV.CRE.INH.lnpNetwork

Purpose	Tests the ability of the SOA to respond to an invalid CMIP M-CREATE request. The NPAC SMS Simulator sends out an M-CREATE intending to create an instance that can only be created inherently on the SOA.
Severity	O
Severity Explanation	Does not impact the SOA ability to provide LNP service for network data download. SOA may perform to verify error handling.
Prerequisites	A lnpSOA instance exists on SOA.
Procedure	NPAC SMS Simulator sends an M-CREATE request for InpNetwork. SOA responds with an M-CREATE error.
Expected Results	The NPAC SMS Simulator receives an error response with error type set to processingFailureEr or duplicateObjectInstanceEr.

12.2.3 MOC.NPAC.SOA.INV.SET.InpNetwork

Purpose	Tests the ability of the SOA to respond to an invalid CMIP M-SET request. The NPAC SMS Simulator sends out an M-SET intending to override the read-only attribute lnpNetworkName.
Severity	O
Severity Explanation	Does not impact the SOA ability to provide LNP service for network data download. SOA may perform to verify error handling.
Prerequisites	A lnpNetwork instance exists on the SOA.
Procedure	 NPAC SMS Simulator sends an M-SET request for InpNetwork InpNetworkName attribute. SOA responds with an M-SET error.
Expected Results	The NPAC SMS Simulator receives an error response with the error type set to setListErrorEr.

12.2.4 MOC.NPAC.SOA.INV.ACT.InpNetwork

Purpose	Tests the ability of the SOA to respond to an invalid CMIP M-
-	ACTION request. The manager sends a lnpDownload action.
Severity	0
Severity Explanation	Does not impact the SOA ability to provide LNP service for
	network data download. SOA may perform to verify error handling
Prerequisites	A lnpNetwork instance exists on the SOA.
Procedure	NPAC SMS Simulator sends a InpDownload M-ACTION request. SOA responds with an M-ACTION error.
Expected Results	The NPAC SMS Simulator receives an error response with error type set to noSuchActionEr.

12.2.5 MOC.NPAC.SOA.INV.DEL.InpNetwork

Purpose	Tests the ability of the SOA to respond to an invalid CMIP M-DELETE request. The manager sends a delete for the lnpNetwork MO.
Severity	0
Severity Explanation	Does not impact the SOA ability to provide LNP service for network data download. SOA may perform to verify error handling.
Prerequisites	A lnpNetwork instance exists on the SOA.
Procedure	 NPAC SMS Simulator sends M-DELETE request for the lnpNetwork MO. SOA responds with an M-DELETE error.
Expected Results	The NPAC SMS Simulator receives the error response with error type set to processingFailureEr.

12.3 <u>serviceProvNetwork</u>

МО	serviceProvNetwork
Purpose	This section contains test cases for the lnpLocalSMS Managed Object Class pertaining to the NPAC SMS manager to Local SMS agent Interface, as part of the MO Conformance testing of the interoperability test. This capability test package checks the agent's existence and basic validity of the specified capabilities.
Prerequisite	A NPAC Management association function is established. The agent has successfully completed the Stack-to-Stack Interoperability testing. The agent has successfully completed the MOC.NPAC.CAP.lnpLocalSMS test.

12.3.1 MOC.NPAC.SOA.CAP.OP.CRE.serviceProvNetwork

Purpose	Test the capability of the SOA to correctly respond to an M-CREATE request for the serviceProvNetwork MO.
Severity	C
Severity Explanation	This test case must be executed if the SOA is to supports network data download.
Prerequisites	A InpNetwork instance exists on the SOA
Procedure	 NPAC SMS Simulator sends a serviceProvNetwork M- CREATE request. SOA responds successfully to the M-CREATE.
Expected Results	The NPAC SMS Simulator sends a valid M-CREATE request and receives the SOA M-CREATE response indicating successful creation of the serviceProvNetwork.

12.3.2 MOC.NPAC.SOA.CAP.OP.GET.serviceProvNetwork

Purpose	Tests the capability of the SOA to correctly respond to an M-GET request for the serviceProvNetwork MO class. The NPAC SMS Simulator will get all attributes of the MO instance.
Severity	0
Severity Explanation	Needed for the NPAC SMS Simulator to verify correct instantiation by SOA if the SOA is supporting network data download.

Prerequisites	A serviceProvNetwork instance exists on SOA.
Procedure	 NPAC SMS Simulator sends an M-GET request for serviceProvNetwork for all attributes. SOA responds with getResult.
Expected Results	The NPAC SMS Simulator receives a getResult with all attribute values.

12.3.3 MOC.NPAC.SOA.CAP.OP.SET.serviceProvNetwork

Purpose	Tests the capability of the SOA to support the M-SET of the
	serviceProvName attribute in the serviceProvNetwork MO class.
Severity	C
Severity Explanation	Test case must be executed if the SOA supports network data
,	download.
Prerequisites	A serviceProvNetwork exists on the SOA.
Procedure	NPAC SMS Simulator sends an M-SET request for
	serviceProvNetwork serviceProvName attribute.
	2. SOA responds successfully to the M-SET
Expected Results	The NPAC SMS Simulator sends an M-SET request to the SOA and
	the SOA responds successfully.

12.3.4 MOC.NPAC.SOA.CAP.OP.DEL.serviceProvNetwork

Purpose	Tests the capability of the agent to support the M-DELETE request
_	for the serviceProvNetworkMO class.
Severity	С
Severity Explanation	Test case must be executed if the SOA supports network data
, ,	download.
Prerequisites	A serviceProvNetwork exists on the SOA.
Procedure	NPAC SMS Simulator sends an M-DELETE request for the
	serviceProvNetwork MO.
	2. SOA responds successfully to the M-DELETE.
Expected Results	The NPAC SMS Simulator sends an M-DELETE request to the
	SOA and the SOA responds successfully.

12.3.5 MOC.NPAC.SOA.INV.CRE.DUP.serviceProvNetwork

Purpose	Test the capability of the SOA to correctly respond to a duplicate M-CREATE request for the serviceProvNetwork MO.
Severity	0
Severity Explanation	Does not impact the SOA ability to provide LNP service for network data download. SOA may perform to verify error handling.
Prerequisites	A serviceProvNetwork instance exists on the SOA.
Procedure	 NPAC SMS Simulator sends a serviceProvNetwork M- CREATE request for a serviceProvNetwork MO that already exists. SOA responds to the M-CREATE.
Expected Results	The NPAC SMS Simulator sends an M-CREATE request for an

existing serviceProvNetwork MO and receives the SOA M-
CREATE error response of duplicateObjectInstanceEr.

12.3.6 MOC.NPAC.SOA.INV.SET.RO.serviceProvNetwork

Purpose	Tests the capability of the SOA to respond to an M-SET for the read-only attribute serviceProvID.
Severity	O
Severity Explanation	Does not impact the SOA ability to provide LNP service for network data download. SOA may perform to verify error handling.
Prerequisites	A serviceProvNetwork instance exists on the SOA.
Procedure	NPAC SMS Simulator sends an M-SET request for a serviceProvNetwork serviceProvID attribute. SOA responds with an M-SET error.
Expected Results	The NPAC SMS Simulator receives an error response with the error type set to setListErrorEr.

12.3.7 MOC.NPAC.SOA.INV.SET.SYN.serviceProvNetwork

Purpose	Tests the capability of the SOA to respond to an M-SET for a syntactically invalid CMIP.
Severity	0
Severity Explanation	Does not impact the SOA ability to provide LNP service for network data download. SOA may perform to verify error handling.
Prerequisites	A serviceProvNetwork instance exists on the SOA.
Procedure	NPAC SMS Simulator sends an M-SET request for a serviceProvNetwork serviceProvName attribute with a length of 41. SOA responds with an M-SET error.
Expected Results	The NPAC SMS Simulator receives an error response with the error type set to processingFailureEr.

12.3.8 MOC.NPAC.SOA.INV.SET.serviceProvNetwork

Purpose	Tests the capability of the SOA to respond to M-SET for a syntactically invalid CMIP request for the serviceProvName attribute.
Severity	0
Severity Explanation	Does not impact the SOA ability to provide LNP service for network data download. SOA may perform to verify error handling
Prerequisites	A serviceProvNetwork instance exists on the SOA.
Procedure	 NPAC SMS Simulator sends an M-SET request for a serviceProvNetwork serviceProvName attribute with a length of 0. SOA responds with an M-SET error.
Expected Results	The NPAC SMS Simulator receives an error response with the error type set to processingFailureEr.

12.3.9 MOC.NPAC.SOA.INV.GET.serviceProvNetwork

Purpose	Tests the capability of the SOA to respond to an invalid M-GET for an attribute that does not exist.
Consoritor	
Severity	0
Severity Explanation	Does not impact ability to provide LNP service. SOA may perform
, ,	to verify error handling
Prerequisites	A serviceProvNetwork instance exists.
Procedure	1. NPAC SMS Simulator sends an M-GET request for a
	serviceProvNetwork for an attribute that does not exist.
	2. SOA responds with an M-SET error.
Expected Results	The NPAC SMS Simulator receives an error response with the error
•	type set to getListErrorEr.

12.3.10 MOC.NPAC.SOA.INV.DEL.serviceProvNetwork

Purpose	Tests the ability of the SOA to respond to an invalid CMIP M-
_	DELETE request. The manager sends a delete for a
	serviceProvNetwork MO that does not exist.
Severity	С
Severity Explanation	Must be performed if prerequisite is performed.
Prerequisites	MOC.NPAC.SOA.CAP.OP.DEL.serviceProvNetwork
•	The serviceProvNetwork MO to be deleted does not exist.
Procedure	1. NPAC SMS Simulator sends M-DELETE request for the
	serviceProvNetwork MO.
	2. SOA responds with an M-DELETE error.
Expected Results	The NPAC SMS Simulator receives the error response with error
	type set to noSuchObjectInstanceEr.

12.3.11 MOC.NPAC.SOA.INV.DEL.CO.serviceProvNetwork

Purpose	Tests the ability of the SOA to respond to an invalid CMIP M-DELETE request. The manager sends a delete for the
	serviceProvNetwork MO that is a container for subordinate objects.
Severity	C
Severity Explanation	Must be performed if prerequisite is performed.
Prerequisites	MOC.NPAC.SOA.CAP.OP.DEL.serviceProvNetwork
•	The serviceProvNetwork MO to be deleted does not exist.
Procedure	NPAC SMS Simulator sends M-DELETE request for the serviceProvNetwork MO that is a container for subordinate objects.
	2. SOA responds with an M-DELETE error.
Expected Results	The NPAC SMS Simulator receives the error response with error type set to processingFailureEr.

12.3.12 MOC.NPAC.SOA.BND.SET.MIN.serviceProvNetwork

Purpose	Tests the capability of the SOA to support the M-SET of the
	serviceProvName attribute to a string length of one in the

	serviceProvNetwork MO class.
Severity	C
Severity Explanation	Test case should be executed if the SOA supports network data download.
Prerequisites	A serviceProvNetwork exists on the SOA.
Procedure	NPAC SMS Simulator sends an M-SET request for serviceProvNetwork serviceProvName attribute to a value with the minimum length of 1. SOA responds successfully to the M-SET
Expected Results	The NPAC SMS Simulator sends an M-SET request to the SOA and the SOA responds successfully.

12.3.13 MOC.NPAC.SOA.BND.SET.MAX.serviceProvNetwork

Purpose	Tests the capability of the SOA to support the M-SET of the serviceProvName attribute to a string length of 40 in the serviceProvNetwork MO class.
Severity	C
Severity Explanation	Test case should be executed if the SOA supports network data download.
Prerequisites	A serviceProvNetwork exists on the SOA.
Procedure	 NPAC SMS Simulator sends an M-SET request for serviceProvNetwork serviceProvName attribute to a value with the maximum length of 40. SOA responds successfully to the M-SET
Expected Results	The NPAC SMS Simulator sends an M-SET request to the SOA and the SOA responds successfully.

12.4 <u>serviceProvNPA-NXX</u>

МО	serviceProvNPA-NXX
Purpose	This section contains test cases for the serviceProvNPA-NXX Managed Object Class pertaining to the NPAC SMS manager to SOA Interface, as part of the MO Conformance testing of the interoperability test. This capability test checks the existence and the basic validity of the SOA capability. This object is used to support network data download to the SOA.
Prerequisite	 A NPAC Management association function is established. The agent has successfully completed serviceProvNetwork MOC testing. A serviceProvNetwork instance exists on Local SMS.

12.4.1 MOC.NPAC.SOA.CAP.OP.CRE.serviceProvNPA-NXX

Purpose	Test the capability of the SOA to correctly respond to an M-CREATE request for the serviceProvNPA-NXX MO.
Severity	С
Severity Explanation	This test case must be executed if the SOA is to supports network data download.
Prerequisites	A serviceProvNetwork instance exists on the SOA
Procedure	NPAC SMS Simulator sends a serviceProvNPA-NXX M- CREATE request.

	2. SOA responds successfully to the M-CREATE.
Expected Results	The NPAC SMS Simulator sends a valid M-CREATE request and receives the SOA M-CREATE response indicating successful creation of the serviceProvNetwork.
	creation of the servicer to vivetwork.

12.4.2 MOC.NPAC.SOA.CAP.OP.DEL.serviceProvNPA-NXX

Purpose	Tests the capability of the agent to support the M-DELETE request for the serviceProvNPA-NXX MO class.
Severity	С
Severity Explanation	Test case must be executed if the SOA supports network data download.
Prerequisites	A serviceProvNPA-NXX exists on the SOA.
Procedure	 NPAC SMS Simulator sends an M-DELETE request for the serviceProvNPA-NXX MO. SOA responds successfully to the M-DELETE
Expected Results	The NPAC SMS Simulator sends an M-DELETE request to the SOA and the SOA responds successfully.

12.4.3 MOC.NPAC.SOA.INV.CRE.DUP.serviceProvNPA-NXX

Purpose	Test the capability of the SOA to correctly respond to a duplicate M-
	CREATE request for the serviceProvNetwork MO.
Severity	C
Severity Explanation	Does not impact the SOA ability to provide LNP service for
	network data download. SOA may perform to verify error handling.
Prerequisites	A serviceProvNPA-NXX instance exists on the SOA
Procedure	NPAC SMS Simulator sends a serviceProvNPA-NXX M- CREATE request for a serviceProvNetwork MO that already exists.
	2. SOA responds to the M-CREATE.
Expected Results	The NPAC SMS Simulator sends an M-CREATE request for an
'	existing serviceProvNPA-NXX MO and receives the SOA M-
	CREATE error response of duplicateObjectInstanceEr.

12.4.4 MOC.NPAC.SOA.INV.SET.serviceProvNPA-NXX

Purpose	Tests the capability of the SOA to respond to an M-SET for a syntactically invalid CMIP request for the read-only attribute serviceProvNPA-NXX-ID.
Severity	0
Severity Explanation	Does not impact the SOA ability to provide LNP service for network data download. SOA may perform to verify error handling.
Prerequisites	A serviceProvNPA-NXX instance exists on the SOA.
Procedure	NPAC SMS Simulator sends an M-SET request for a serviceProvNPA-NXX-ID.

	2. SOA responds with an M-SET error.
Expected Results	The NPAC SMS Simulator receives an error response with the error
	type set to setListErrorEr.

12.4.5 MOC.NPAC.SOA.INV.DEL.serviceProvNPA-NXX

Purpose	Tests the ability of the SOA to respond to an invalid CMIP M-
· •	DELETE request. The manager sends a delete for the
	serviceProvNPA-NXX MO that does not exist.
Severity	C
Severity Explanation	This test case must be executed if the SOA is to support network
	data download.
Prerequisites	MOC.NPAC.SOA.CAP.OP.DEL.serviceProvNPA-NXX
•	The serviceProvNPA-NXX MO to be deleted does not exist.
Procedure	1. NPAC SMS Simulator sends M-DELETE request for the
	serviceProvNPA-NXX MO.
	2. SOA responds with an M-DELETE error.
Expected Results	The NPAC SMS Simulator receives the error response with error
,	type set to noSuchObjectInstanceEr.

12.5 ServiceProvLRN

МО	serviceProvLRN
Purpose	This file contains test cases for the serviceProvLRN Managed Object Class pertaining to the NPAC SMS manager to SOA Interface, as part of the MO Conformance testing of the interoperability test. This capability test package checks the SOA existence and basic validity of the specified capabilities. This object is used to support network data download to the SOA.
Prerequisite	 A NPAC Management association function is established. The agent has successfully completed the Stack-to-Stack Interoperability testing. The SOA has successfully completed the serviceProvNetwork MOC tests. There is a serviceProvNetwork existing on SOA.

12.5.1 MOC.NPAC.SOA.CAP.OP.CRE.serviceProvLRN

Purpose	Test the capability of the SOA to correctly respond to an M-
	CREATE request for the serviceProvLRN MO.
Severity	С
Severity Explanation	This test case must be executed if the SOA is to supports network data download.
Prerequisites	A serviceProvNetwork instance exists on the SOA
Procedure	 NPAC SMS Simulator sends a serviceProvLRN M-CREATE request. SOA responds successfully to the M-CREATE.
Expected Results	The NPAC SMS Simulator sends a valid M-CREATE request and receives the SOA M-CREATE response indicating successful creation of the serviceProvNetwork.

12.5.2 MOC.NPAC.SOA.CAP.OP.DEL.serviceProvLRN

Purpose	Tests the capability of the agent to support the M-DELETE request for the serviceProvLRN MO class.
Severity	С
Severity Explanation	Test case must be executed if the SOA supports network data download.
Prerequisites	A serviceProvLRN exists on the SOA.
Procedure	 NPAC SMS Simulator sends an M-DELETE request for the serviceProvLRN MO. SOA responds successfully to the M-DELETE.
Expected Results	The NPAC SMS Simulator sends an M-DELETE request to the SOA and the SOA responds successfully.

12.5.3 MOC.NPAC.SOA.INV.CRE.DUP.serviceProvLRN

Purpose	Test the capability of the SOA to correctly respond to a duplicate M-CREATE request for the serviceProvNetwork MO.
Severity	C
Severity Explanation	Must be performed if prerequisite is performed.
Prerequisites	 MOC.NPAC.SOA.CAP.OP.CRE.serviceProvLRN A serviceProvLRN instance exists on the SOA
Procedure	 NPAC SMS Simulator sends a serviceProvLRN M-CREATE request for a serviceProvNetwork MO that already exists. SOA responds to the M-CREATE.
Expected Results	The NPAC SMS Simulator sends an M-CREATE request for an existing serviceProvLRN MO and receives the SOA M-CREATE error response of duplicateObjectInstanceEr.

12.5.4 MOC.NPAC.SOA.INV.SET.serviceProvLRN

Purpose	Tests the capability of the SOA to respond to M-SET for a syntactically invalid CMIP request for the read-only attribute serviceProvLRN-ID.
Severity	0
Severity Explanation	Does not impact the SOA ability to provide LNP service for network data download. SOA may perform to verify error handling.
Prerequisites	A serviceProvLRN instance exists on the SOA.
Procedure	NPAC SMS Simulator sends an M-SET request for a serviceProvLRN-ID. SOA responds with an M-SET error.
Expected Results	The NPAC SMS Simulator receives an error response with the error type set to setListErrorEr.

12.5.5 MOC.NPAC.SOA.INV.DEL.serviceProvLRN

Purpose	Tests the ability of the SOA to respond to an invalid CMIP M-
,	DELETE request. The manager sends a delete for the
	serviceProvLRN MO that does not exist.
Severity	C
Severity Explanation	This test case must be executed if the SOA is to support network
	data download.
Prerequisites	MOC.NPAC.SOA.CAP.OP.DEL.serviceProvLRN
	The serviceProvLRN MO to be deleted does not exist.
Procedure	NPAC SMS Simulator sends M-DELETE request for the
	serviceProvLRN MO.
	2. SOA responds with an M-DELETE error.
Expected Results	The NPAC SMS Simulator receives the error response with error
,	type set to noSuchObjectInstanceEr.

12.6 <u>numberPoolBlockNPAC</u>

12.6.1 MOC.SOA.CAP.NOT.numberPoolBlockAttributeValueChange

Purpose	Verify the SOA's ability to receive the numberPoolBlockAttributeValueChange notification for the numberPoolBlockNPAC object.
Severity	C
Severity Explanation	Required if the SOA is supporting the numberPoolBlockNPAC managed object instance.
Prerequisites	N/A
Procedure	NPAC SMS Simulator issues the M-EVENT-REPORT, numberPoolBlockAttributeValueChange, for a numberPoolBlockNPAC object. SOA confirms the M-EVENT-REPORT.
Expected Results	SOA responds with a valid M-EVENT-REPORT confirmation.

12.6.2 MOC.SOA.CAP.NOT.numberPoolBlockStatusAttributeValueChange

Purpose	Verify the SOA's ability to receive the
. d. pooc	numberPoolBlockStatusAttributeValueChange notification for the
	numberPoolBlockNPAC object.
Severity	С
Severity Explanation	Required if the SOA is supporting the numberPoolBlockNPAC
,	managed object instance.
Prerequisites	N/A
Procedure	NPAC SMS Simulator issues the M-EVENT-REPORT,
	numberPoolBlockStatusAttributeValueChange, for a
	numberPoolBlockNPAC object.
	2. SOA confirms the M-EVENT-REPORT.
Expected Results	SOA responds with a valid M-EVENT-REPORT confirmation.

12.7 <u>serviceProvNPA-NXX-X</u>

МО	serviceProvNPA-NXX-X

Purpose	This section contains test cases for the serviceProvNPA-NXX-X Managed Object Class pertaining to the NPAC SMS manager to SOA Interface, as part of the MO Conformance testing of the interoperability test. This capability test package checks the SOA existence and basic validity of the specified capabilities. This object is used to support network data download to the SOA.
Prerequisite	A NPAC Management association function is established.
,	The SOA has successfully completed the S2S Interoperability testing.
	There is a serviceProvNetwork existing on SOA.

12.7.1 MOC.NPAC.SOA.CAP.OP.CRE.serviceProvNPA-NXX-X

Purpose	Verify SOA's ability to respond correctly to an M-CREATE request for the serviceProvNPA-NXX-X managed object instance.
Severity	C
Severity Explanation	Required if the SOA is to support network data download and the serviceProvNPA-NXX-X managed object.
Prerequisites	A serviceProvNetwork instance exists on the SOA.
Procedure	NPAC SMS Simulator sends a serviceProvNPA-NXX-X M-CREATE request. SOA responds successfully to the M-CREATE.
Expected Results	NPAC SMS Simulator sends a valid M-CREATE request and receives the SOA M-CREATE response indicating successful creation of the serviceProvNetwork.

12.7.2 MOC.NPAC.SOA.CAP.OP.SET.serviceProvNPA-NXX-X

Purpose	Verify the SOA's ability to respond correctly to an M-SET request for the serviceProvNPA-NXX-X managed object instance.
Severity	С
Severity Explanation	Required if the SOA is to support network data download and the serviceProvNPA-NXX-X managed object.
Prerequisites	A serviceProvNetwork instance exists on the SOA.
Procedure	NPAC SMS Simulator sends a serviceProvNPA-NXX-X M-SET request. SOA responds successfully to the M-SET.
Expected Results	NPAC SMS Simulator sends a valid M-SET request and receives the SOA M-SET response indicating successful modification of the serviceProvNPA-NXX-X.

12.7.3 MOC.NPAC.SOA.CAP.OP.DEL.serviceProvNPA-NXX-X

Purpose	Verify the SOA's ability to respond correctly to an M-DELETE request for the serviceProvNPA-NXX-X managed object class.
Severity	С
Severity Explanation	Test case must be executed if the SOA supports network data download and the serviceProvNPA-NXX-X managed object.
Prerequisites	A serviceProvNPA-NXX-X exists on the SOA.
Procedure	NPAC SMS Simulator sends an M-DELETE request for the serviceProvNPA-NXX-X managed object. SOA responds successfully to the M-DELETE.

Expected Results	NPAC SMS Simulator sends an M-DELETE request to the SOA
	and the SOA responds successfully.

12.7.4 MOC.NPAC.SOA.INV.CRE.DUP.serviceProvNPA-NXX-X

B	While the COA2 shill that we want a superfluid a familiar M
Purpose	Verify the SOA's ability to respond correctly to a duplicate M-
•	CREATE request for the serviceProvNetwork managed object.
Severity	С
Severity Explanation	Required if the SOA is to support network data download and the
, , , , , , , , , , , , , , , , , , ,	serviceProvNPA-NXX-X managed object.
Prerequisites	A serviceProvNPA-NXX-X instance exists on the SOA
Procedure	1. NPAC SMS Simulator sends a serviceProvNPA-NXX-X M-
	CREATE request for a serviceProvNetwork managed object
	that already exists.
	2. SOA responds to the M-CREATE.
Expected Results	NPAC SMS Simulator sends an M-CREATE request for an existing
•	serviceProvNPA-NXX-X managed object and receives the SOA M-
	CREATE error response of duplicateObjectInstanceEr.

12.7.5 MOC.NPAC.SOA.INV.SET.serviceProvNPA-NXX-X

Purpose	Verify the SOA's ability to respond to an M-SET for a syntactically invalid CMIP request for the read-only attribute serviceProvNPA-NXX-X-ID.
Severity	0
Severity Explanation	Required if the SOA is to support network data download and the serviceProvNPA-NXX-X managed object.
Prerequisites	A serviceProvNPA-NXX-X exists on the NPAC SMS Simulator.
Procedure	 NPAC SMS Simulator sends an M-SET request for a serviceProvNPA-NXX-X-ID. SOA responds with an M-SET error.
Expected Results	NPAC SMS Simulator receives an error response with the error type set to setListErrorEr.

12.7.6 MOC.NPAC.SOA.INV.DEL.serviceProvNPA-NXX-X

Purpose	Verify the SOA correctly handles an invalid CMIP M-DELETE request. NPAC SMS Simulator sends a delete for the serviceProvNPA-NXX-X managed object that does not exist on the SOA.
Severity	С
Severity Explanation	Required if the SOA is to support network data download and the serviceProvNPA-NXX-X managed object.
Prerequisites	The serviceProvNPA-NXX-X managed object to be deleted does not exist on the SOA.
Procedure	NPAC SMS Simulator sends M-DELETE request for the serviceProvNPA-NXX-X managed object. SOA responds with an M-DELETE error.
Expected Results	NPAC SMS Simulator receives the error response with error type set to noSuchObjectInstanceEr.



13 LSMS to NPAC MOC Test Cases

13.1 InpNPAC-SMS

МО	LnpNPAC-SMS
Purpose	This section contains the test cases for the lnpNPAC-SMS Managed Object Class pertaining to the LSMS to NPAC SMS Interface, as part of the Managed Object Conformance testing of the NPAC SMS Interoperability Test.
Prerequisite	A Service Provider and Network Data Management association function is established. A lnpNPAC-SMS Managed Object Instance has been created.

13.1.1 MOC.LSMS.CAP.OP.GET.InpNPAC-SMS

Purpose	To test the LSMS's ability to GET all the attributes of the lnpNPAC-
•	SMS managed object instance.
Severity	0
Severity Explanation	LSMS does not need to issue this request to provide LNP service.
Prerequisites	A lnpNPAC-SMS managed object instance has been inherently created.
Procedure	LSMS sends the M-GET request for the lnpNPAC-SMS object requesting all attributes. NPAC SMS Simulator responds with the M-GET result containing all attributes.
Expected Results	The LSMS issues a valid M-GET request and retrieves the attributes successfully from the NPAC SMS Simulator.

13.1.2 MOC.LSMS.CAP.OP.ACT.InpRecoveryComplete

Purpose	To test the LSMS's ability to indicate that the recovery mode for the
	Local SMS is complete.
Severity	R
Severity Explanation	This action is needed to allow the LSMS to download subscription version and network data, which will be used to provide LNP service.
Prerequisites	A lnpNPAC-SMS managed object instance has been inherently created.
Procedure	LSMS sends the InpRecoveryComplete M-ACTION request. NPAC SMS Simulator responds with a successful M-ACTION result.
Expected Results	The LSMS issues a valid M-ACTION request and receives the NPAC SMS Simulator's M-ACTION response properly.

13.1.3 MOC.LSMS.CAP.NOT.InpNPAC-SMS-Operational-Information

Purpose	To test the LSMS's ability to receive the M-EVENT-REPORT for the lnpNPAC-SMS-Operational-Information notification.
Severity	R

Severity Explanation	LSMS is required to handle this notification which informs it of
	NPAC down time.
Prerequisites	A lnpNPAC-SMS managed object instance has been inherently
•	created.
Procedure	NPAC SMS Simulator issues the lnpNPAC-SMS-Operational-
	Information M-EVENT-REPORT.
	2. LSMS confirms the M-EVENT-REPORT.
Expected Results	The LSMS responds with a valid M-EVENT-REPORT
•	confirmation.

13.1.4 MOC.LSMS.INV.GET.InpNPAC-SMS

Purpose	To test the LSMS's ability to handle the M-GET error response processingFailure error to a previously initiated and valid M-GET request for all attributes of the lnpNPAC-SMS object.
Severity	O
Severity Explanation	LSMS does not need to issue this request to provide LNP service.
Prerequisites	MOC.LSMS.CAP.OP.GET.lnpNPAC-SMS
Procedure	 LSMS sends the valid M-GET request for all attributes of the lnpNPAC-SMS object. NPAC SMS Simulator responds with a processingFailure error.
Expected Results	The LSMS correctly handles the error response processingFailure error from the NPAC SMS Simulator.

13.1.5 MOC.LSMS.INV.ACT.InpRecoveryComplete

Purpose	To test the LSMS's ability to handle an error response for an M-ACTION request. This will be accomplished by returning the noSuchAction error in response to the lnpRecoveryComplete action.
Severity	R
Severity Explanation	
Prerequisites	MOC.LSMS.CAP.ACT.lnpNPAC-SMS
Procedure	LSMS sends the valid lnpRecoveryComplete M-ACTION request to the lnpNPAC-SMS object. NPAC SMS Simulator responds with a noSuchAction error.
Expected Results	The LSMS will correctly handle the error response received from the NPAC SMS Simulator.

13.1.6 MOC.LSMS.INV.NOT.InpNPAC-SMS-Operational-Information

Purpose	To test the LSMS's ability to handle an invalid M-EVENT-REPORT
-	for the lnpNPAC-SMS-Operational-Information notification. This
	will be accomplished by setting the stop time attribute of that
	notification to a value that is before the start time.
Severity	0
Severity Explanation	
Prerequisites	MOC.LSMS.CAP.NOT.lnpNPAC-SMS-Operational-
•	Information
	A lnpNPAC-SMS managed object instance has been inherently

	created.
Procedure	1. NPAC SMS Simulator issues the lnpNPAC-SMS-Operational-
	Information M-EVENT-REPORT.
	2. LSMS responds with an invalidArgumentValue error.
Expected Results	The LSMS will correctly handle the invalid M-EVENT-REPORT
•	received from the NPAC SMS Simulator and return the
	invalidArgumentValue error.

13.1.7 MOC.LSMS.CAP.NOT.subscriptionVersionNewNPA-NXX

Purpose	To test the LSMS's ability to receive the M-EVENT-REPORT for subscriptionVersionNewNPA-NXX notification.
Severity	R
Severity Explanation	
Prerequisites	A lnpNPAC-SMS managed object instance has been inherently created.
Procedure	 NPAC SMS Simulator issues the subscriptionVersionNewNPA- NXX M-EVENT-REPORT. LSMS confirms M-EVENT-REPORT.
Expected Results	The LSMS responds with a valid M-EVENT-REPORT confirmation.

13.1.8 MOC.LSMS.INV.NOT.subscriptionVersionNewNPA-NXX

Purpose	To test the LSMS's ability to handle an invalid M-EVENT-REPORT for the subscriptionVersionNewNPA-NXX notification. This will be accomplished by sending the subscriptionVersionNewNPA-NXX notification with an invalid NPA-NXX value.
Severity	0
Severity Explanation	Optional.
Prerequisites	A lnpNPAC-SMS managed object instance has been inherently created.
Procedure	NPAC SMS Simulator issues the subscriptionVersionNewNPA- NXX M-EVENT-REPORT. LSMS returns an invalidArgumentValue error.
Expected Results	The LSMS will correctly handle the invalid M-EVENT-REPORT received from the NPAC SMS Simulator and return appropriate error.

13.1.9 MOC.LSMS.CAP.ACT.InpNotificationRecovery

Purpose	Verify LSMS can successfully process the lnpNotificationRecovery
_	action.
Severity	С
Severity Explanation	This test case must be executed if the service provider LSMS supports notification recovery.
Prerequisites	Notifications exist of each type of notification that can be recovered for the requesting service provider.
Procedure	LSMS sends the InpNotificationRecovery action to the NPAC SMS Simulator to start notification data download for a

	specified period of time. 2. NPAC SMS Simulator responds with M-ACTION InpNotificationRecovery response.
Expected Results	LSMS sends the M-ACTION and receives the action response with notification data.

13.1.10 MOC.LSMS.INV.ACT.InpNotificationRecovery

Purpose	Verify LSMS can successfully process an error response to the lnpNotificationRecovery action.
Severity	C
Severity Explanation	This test case must be executed if the service provider LSMS supports notification recovery.
Prerequisites	
Procedure	LSMS sends action request to NPAC SMS Simulator to start notification data download for a specified period of time. NPAC SMS Simulator responds with error status 'failed'.
Expected Results	LSMS sends the M-ACTION and receives the action response with the error successfully.

13.2 <u>InpServiceProvs</u>

МО	InpServiceProvs
Purpose	This section contains the test cases for the InpServiceProvs Managed Object Class pertaining to the LSMS to NPAC SMS Interface, as part of the Managed Object Conformance testing of the NPAC SMS Interoperability Test.
Prerequisite	A Service Provider and Network Data Management association function is established. A lnpNPAC-SMS and a lnpServiceProvs Managed Object Instances have been created inherently.

$13.2.1\,MOC.LSMS.CAP.OP.GET.InpServiceProvs$

Purpose	To test the LSMS's ability to GET all the attributes of the
•	InpServiceProvs object.
Severity	0
Severity Explanation	No impact to providing LNP service. LSMS may perform to verify
,	InpServiceProvs object.
Prerequisites	A InpServiceProvs managed object instance has been inherently
•	created.
Procedure	1. LSMS sends a valid M-GET request to get all attributes of the
	InpServiceProvs object.
	2. NPAC SMS Simulator responds with a valid M-GET result
	containing the attributes.
Expected Results	The LSMS issues a valid M-GET request and retrieves the attributes
•	successfully from the NPAC SMS Simulator.

13.2.2 MOC.LSMS.INV.GET.InpServiceProvs

Purpose	To test the LSMS's ability to handle the M-GET error response

	processingFailure error to a previously initiated and valid M-GET
	request for all attributes of the lnpServiceProvs object.
Severity	0
Severity Explanation	No impact to providing LNP service. LSMS may perform to verify error handling.
Prerequisites	MOC.LSMS.CAP.OP.GET.lnpServiceProvs
Procedure	 LSMS sends a valid M-GET request to get all the attributes of the lnpServiceProvs object. NPAC SMS Simulator responds with a processingFailure error.
Expected Results	The LSMS correctly handles the error response processingFailure error from the NPAC SMS Simulator.

13.3 InpSubscriptions

МО	InpSubscriptions
Purpose	This section contains the test cases for the InpSubscriptions Managed Object Class pertaining to the LSMS to NPAC SMS Interface, as part of the Managed Object Conformance testing of the NPAC SMS Interoperability Test.
Prerequisite	A LSMS Network and Subscription Data Download Management association function is established. A lnpNPAC-SMS and lnpSubscriptions Managed Object Instances have been created inherently.

13.3.1 MOC.LSMS.CAP.OP.GET.InpSubscriptions

Purpose	To test the LSMS's ability to GET all the attributes of the
•	InpSubscriptions managed object instance.
Severity	0
Severity Explanation	Does not impact ability to provide LNP service. LSMS may
	perform to validate lnpSubscriptions object.
Prerequisites	A InpSubscriptions managed object instance has been inherently
4	created.
Procedure	1. LSMS sends a validate M-GET request to retrieve all attributes
	of the lnpSubscriptions object.
	2. NPAC SMS Simulator responds with a successful M-GET
	result containing all the attributes.
Expected Results	The LSMS issues a valid M-GET request, retrieves the attributes
	successfully from the NPAC SMS Simulator and correctly handles
	the response.

$13.3.2\,MOC.LSMS.CAP.ACT.InpSubscriptions.InpDownload$

Purpose	To test the LSMS's ability to download the subscriptionVersionNPAC objects instantiated on the NPAC SMS Simulator.
Severity	R
Severity Explanation	Direct impact on providing LNP service.
Prerequisites	A InpSubscriptions managed object instance has been inherently created.

Procedure	 LSMS sends a validate lnpDownload M-ACTION request. NPAC SMS Simulator responds with a successful M-ACTION response.
Expected Results	The LSMS sends a valid M-ACTION request, and receives the NPAC SMS Simulator's M-ACTION response properly.

13.3.3 MOC.LSMS.INV.GET.InpSubscriptions

Purpose	To test the LSMS's ability to handle the M-GET error response getListError error to a previously initiated and valid M-GET request for all the attributes of the lnpSubscriptions object.
Severity	0
Severity Explanation	Does not impact ability to provide LNP service. LSMS may perform to validate lnpSubscriptions object.
Prerequisites	MOC.LSMS.CAP.OP.GET.lnpSubscriptions
Procedure	 LSMS sends a valid M-GET request to retrieve all the attributes of the lnpSubscriptions object. NPAC SMS Simulator responds with a getListError error.
Expected Results	The LSMS correctly handles the error response getListError error from the NPAC SMS Simulator.

13.3.4 MOC.LSMS.INV.ACT.InpSubscriptions

Purpose	To test the LSMS's ability to handle an error response for an M-ACTION request. This will be accomplished by returning the complexityLimitation error in response to the lnpDownload action.
Severity	R
Severity Explanation	
Prerequisites	MOC.LSMS.CAP.ACT.lnpSubscriptions.lnpDownload
Procedure	LSMS sends a validate lnpDownload M-ACTION request. NPAC SMS Simulator responds with complexityLimitation error.
Expected Results	The LSMS will correctly handle the complexityLimitation error response received from the NPAC SMS Simulator.

13.3.5 MOC.LSMS.VAL.InpDownload-NumberPoolBlock

Purpose	Verify the LSMS's ability to issue the lnpDownload action for numberPoolBlock data.
Severity	С
Severity Explanation	Required if LSMS will be supporting numberPoolBlock data.
Prerequisites	NumberPoolBlock objects exist on the NPAC SMS Simulator.
Procedure	LSMS issues a valid lnpDownload M-ACTION request for all or specific numberPoolBlock objects. NPAC SMS Simulator responds with a successful M-ACTION response containing the requested data.
Expected Results	LSMS issues a valid M-ACTION request and retrieves the data successfully from the NPAC SMS Simulator.

13.4 InpNetwork

МО	InpNetwork
Purpose	This section contains the test cases for the InpNetwork Managed Object Class pertaining to the LSMS to NPAC SMS Interface, as part of the Managed Object Conformance testing of the NPAC SMS Interoperability Test.
Prerequisite	A LSMS Network and Subscription Data Download Management association function is established. A lnpNPAC-SMS and a lnpNetwork Managed Object Instances have been created inherently.

13.4.1 MOC.LSMS.CAP.OP.GET.InpNetwork

Purpose	To test the LSMS's ability to GET all the attributes of the
	InpNetwork managed object instance.
Severity	0
Severity Explanation	No impact to providing LNP service. LSMS may perform to
	validate lnpNetwork object.
Prerequisites	A lnpNetwork managed object instance has been inherently created.
Procedure	LSMS sends a valid M-GET request for all attribute of the
	InpNetwork object.
	2. NPAC SMS Simulator responds with a successful M-GET
	result containing all the attributes.
Expected Results	The LSMS issues a valid M-GET request and retrieves the attributes
•	successfully from the NPAC SMS Simulator.

13.4.2 MOC.LSMS.CAP.ACT.InpNetwork.InpDownload

Purpose	To test the LSMS's ability to download the serviceProvNetwork, serviceProvNPA-NXX and serviceProvLRN objects instantiated on the NPAC SMS Simulator.
Severity	R
Severity Explanation	Direct impact on providing LNP service.
Prerequisites	A lnpNetwork managed object instance has been inherently created.
Procedure	LSMS sends a valid lnpDownload M-ACTION request. NPAC SMS Simulator responds with a successful M-ACTION reply.
Expected Results	The LSMS sends a valid M-ACTION request, and receives the NPAC SMS Simulator's M-ACTION response properly.

13.4.3 MOC.LSMS.INV.GET.InpNetwork

Purpose	To test the LSMS's ability to handle the M-GET error response
_	processingFailure error to a previously initiated and valid M-GET
	request for all attributes of the lnpNetwork object.
Severity	0
Severity Explanation	
Prerequisites	MOC.LSMS.VAL.GET.lnpNetwork
Procedure	LSMS sends a valid M-GET request for all the attributes of the lnpNetwork object.

	2. NPAC SMS Simulator responds with a processingFailure error.
Expected Results	The LSMS correctly handles the error response processingFailure error from the NPAC SMS Simulator.

13.4.4 MOC.LSMS.INV.ACT.InpNetwork

Purpose	To test the LSMS's ability to handle an error response for an M-ACTION request. This will be accomplished by returning the processingFailure error in response to the lnpDownload action.
Severity	R
Severity Explanation	
Prerequisites	MOC.LSMS.CAP.ACT.lnpNetwork.lnpDownload
Procedure	 LSMS sends a valid lnpDownload M-ACTION request. NPAC SMS Simulator responds with a processingFailure error.
Expected Results	The LSMS will correctly handle the error response received from the NPAC SMS Simulator.

13.4.5 MOC.LSMS.VAL.InpDownload-NPA-NXX-X

Purpose	Verify the LSMS's ability to issue the lnpDownload action for serviceProvNPA-NXX-X data.
Severity	С
Severity Explanation	Required if LSMS will be supporting serviceProvNPA-NXX-X data.
Prerequisites	serviceProvNPA-NXX-X objects exist on the NPAC SMS Simulator.
Procedure	 LSMS issues a valid lnpDownload M-ACTION request for all network data or specific serviceProvNPA-NXX-X objects. NPAC SMS Simulator responds with a successful M-ACTION response containing the requested data.
Expected Results	LSMS issues a valid M-ACTION request and retrieves the data successfully from the NPAC SMS Simulator.

13.5 serviceProv

МО	serviceProv
Purpose	This section contains the test cases for the serviceProv Managed Object Class pertaining to the LSMS to NPAC SMS Interface, as part of the Managed Object Conformance testing of the NPAC SMS Interoperability Test.
Prerequisite	A Service Provider and Network Data Management is established. A lnpNPAC-SMS and a lnpServiceProvs Managed Object Instances have been created inherently. A serviceProv Managed Object Instance has been created locally by the NPAC SMS Simulator personnel.

13.5.1 MOC.LSMS.CAP.OP.SET.serviceProv

Purpose	To test the LSMS's ability to SET all of the mandatory attributes on which the M-SET operation is allowed in the serviceProv managed object instance.
	object instance.

Severity	С
Severity Explanation	Does not impact ability to provide LNP service. Required if LSMS will be used to manage service provider profile.
Prerequisites	A serviceProv managed object instance has been created.
Procedure	LSMS sends a valid M-SET request for the serviceProvAddress, serviceProvSysLinkInfo, and serviceProvTunables attributes. NPAC SMS Simulator responds with a successful M-SET response.
Expected Results	The LSMS issues a valid M-SET request and sets the serviceProvAddress, serviceProvSysLinkInfo, and serviceProvTunables attributes successfully in the NPAC SMS Simulator.

13.5.2 MOC.LSMS.CAP.OP.GET.serviceProv

Purpose	To test the LSMS's ability to GET all the attributes of the
	serviceProv managed object instance.
Severity	0
Severity Explanation	Does not impact ability to provide LNP service.
Prerequisites	MOC.LSMS.CAP.OP.SET.serviceProv
Procedure	 LSMS sends a valid M-GET request for all attributes. NPAC SMS Simulator responds with a successful M-GET result containing all attributes.
Expected Results	The LSMS issues a valid M-GET request and retrieves the attributes successfully from the NPAC SMS Simulator.

13.5.3 MOC.LSMS.VAL.SET.SING.serviceProv

Purpose	To test the LSMS's ability to SET a single attribute, namely the
	serviceProvAddress in the serviceProv managed object instance.
Severity	C
Severity Explanation	Does not impact ability to provide LNP service. Required if the
,	service provider will be managing their profile from the LSMS.
	Requirement exists but may be satisfied by
	MOC.LSMS.CAP.OP.SET.serviceProv
Prerequisites	A serviceProv managed object instance has been created.
Procedure	LSMS sends a valid M-SET request for the serviceProvAddress attribute.
	2. NPAC SMS Simulator responds with a successful M-SET
	response.
Expected Results	The LSMS issues a valid M-SET request and sets the
-	serviceProvAddress attribute successfully in the NPAC SMS
	Simulator.

13.5.4 MOC.LSMS.VAL.SET.SING.COND.serviceProv

Purpose	To test the LSMS's ability to SET a single conditional attribute,
	namely the serviceProvBillingAddress in the serviceProv managed

	object instance.
Severity	C
Severity Explanation	Does not impact ability to provide LNP service. Required if the service provider will be managing their profile from the LSMS. Requirement exists but may be satisfied by MOC.LSMS.CAP.OP.SET.serviceProv
Prerequisites	MOC.LSMS.VAL.SET.SING.serviceProv
Procedure	LSMS sends a valid M-SET request for the serviceProvBillingAddress attribute. NPAC SMS Simulator responds with a successful M-SET response.
Expected Results	The LSMS issues a valid M-SET request and sets the serviceProvBillingAddress attribute successfully in the NPAC SMS Simulator.

13.5.5 MOC.LSMS.VAL.SET.MULT.serviceProv

Purpose	To test the LSMS's ability to SET a group of attributes, namely the serviceProvAddress, serviceProvTunables, and serviceProvLSMS-Address in the serviceProv managed object instance.
Severity	C
Severity Explanation	Does not impact ability to provide LNP serviceRequirement exists but may be satisfied by MOC.LSMS.CAP.OP.SET.serviceProv
Prerequisites	MOC.LSMS.VAL.SET.SING.COND.serviceProv
Procedure	LSMS sends a valid M-SET request for the serviceProvAddress, serviceProvTunables, and serviceProvLSMS-Address attributes. NPAC SMS Simulator responds with a successful M-SET response.
Expected Results	The LSMS issues a valid M-SET request and sets the attribute group successfully in the NPAC SMS Simulator.

13.5.6 MOC.LSMS.INV.SET.serviceProv

Purpose	To test the LSMS's ability to handle the M-SET error response
*	setListError error to a previously initiated and valid M-SET request
	for the serviceProvName attribute.
Severity	С
Severity Explanation	Does not impact ability to provide LNP service. May be performed
,	by LSMS to verify error handling.
Prerequisites	MOC.LSMS.VAL.SET.SING.serviceProv
Procedure	1. LSMS sends a valid M-SET request for the serviceProvName,
	attribute.
	2. NPAC SMS Simulator responds with a setListError error.
Expected Results	The LSMS correctly handles the error response setListError error
,	from the NPAC SMS Simulator.

13.5.7 MOC.LSMS.INV.GET.serviceProv

Purpose	To test the LSMS's ability to handle the M-GET error response nosuchObjectInstance error to a previously initiated and valid M-GET request all the attributes of the serviceProv object.
Severity	C
Severity Explanation	Does not impact ability to provide LNP service. May be performed by LSMS to verify error handling.
Prerequisites	MOC.LSMS.CAP.OP.GET.serviceProv
Procedure	 LSMS sends a valid M-GET request for all the attributes of the serviceProv object. NPAC SMS Simulator responds with a noSuchObjectInstance error.
Expected Results	The LSMS correctly handles the error response noSuchObjectInstance error from the NPAC SMS Simulator.

13.5.8 MOC.LSMS.BND.MIN.SET.serviceProv

Purpose	To test the behaviour of the LSMS when setting the city field of the serviceProvAddress attribute to a value of length 1 octet which is the lower bound of the range for the city size.
Severity	С
Severity Explanation	Does not impact ability to provide LNP service. LSMS may perform to validate boundary conditions.
Prerequisites	MOC.LSMS.VAL.SET.SING.serviceProv
Procedure	 LSMS sends a valid M-SET request for the serviceProvAddress city attribute set to a string value of length 1. NPAC SMS Simulator responds with a successful M-SET response.
Expected Results	The city field is set accordingly in the NPAC SMS Simulator.

13.5.9 MOC.LSMS.BND.MAX.SET.serviceProv

Purpose	To test the behaviour of the LSMS when setting the city field of the serviceProvAddress attribute to a value of length 20 which is the higher bound of the range for the city size.
Severity	C
Severity Explanation	Does not impact ability to provide LNP service. LSMS may perform to verify boundary conditions.
Prerequisites	MOC.LSMS.VAL.SET.SING.serviceProv
Procedure	 LSMS sends a valid M-SET request for the serviceProvAddress city attribute set to a string value of length 20. NPAC SMS Simulator responds with a successful M-SET response.
Expected Results	The city field is set accordingly in the NPAC SMS Simulator.

13.6 IsmsFilterNPA-NXX

МО	lsmsFilterNPA-NXX
Purpose	This section contains the test cases for the lsmsFilterNPA-NXX Managed Object Class pertaining to the LSMS to NPAC SMS Interface, as part of the Managed Object Conformance testing of the NPAC SMS Interoperability Test.
Prerequisite	A Service Provider and Network Data Management association function is established. A lnpNPAC-SMS and a lnpServiceProvs Managed Object Instances have been created inherently.

13.6.1 MOC.LSMS.CAP.OP.CRE.lsmsFilterNPA-NXX

Purpose	To test the LSMS's ability to CREATE a lsmsFilterNPA-NXX managed object instance in the NPAC SMS Simulator.
Severity	C
Severity Explanation	Does not impact ability to provide LNP service. Required if the service provider will be managing lsmsfilterNPA-NXX objects.
Prerequisites	All the test cases for the serviceProv Managed Object Class
Procedure	 LSMS sends a valid M-CREATE request for the lsmsFilterNPA-NXX object NPAC SMS Simulator responds with a successful M-CREATE response.
Expected Results	The LSMS issues a valid M-CREATE request causing the lsmsFilterNPA-NXX instance to be created and its attributes populated successfully in the NPAC SMS Simulator.

13.6.2 MOC.LSMS.CAP.OP.GET.IsmsFilterNPA-NXX

Purpose	To test the LSMS's ability to GET all the attributes of the
	lsmsFilterNPA-NXX managed object instance.
Severity	0
Severity Explanation	Does not impact ability to provide LNP service. May be formed by
	the LSMS to verify their ability to retrieve the instance.
Prerequisites	MOC.LSMS.CAP.OP.CRE.lsmsFilterNPA-NXX
Procedure	LSMS sends a valid M-GET request for the lsmsFilterNPA- NXX object
	2. NPAC SMS Simulator responds with a successful M-GET
	result containing all the attributes.
Expected Results	The LSMS issues a valid M-GET request and retrieves the attributes
•	successfully from the NPAC SMS Simulator.

13.6.3 MOC.LSMS.CAP.OP.DEL.lsmsFilterNPA-NXX

Purpose	To test the LSMS's ability to DELETE an existing lsmsFilterNPA-NXX managed object instance from the NPAC SMS Simulator.
Severity	C
Severity Explanation	Does not impact ability to provide LNP service. Required if the service provider will be managing the lsmsFilterNPA-NXX objects.
Prerequisites	MOC.LSMS.CAP.OP.CRE.lsmsFilterNPA-NXX

Procedure	LSMS sends a valid M-DELETE request for the
	lsmsFilterNPA-NXX object
	2. NPAC SMS Simulator responds with a successful M-DELETE
	response containing all the attributes.
Expected Results	The LSMS issues a valid M-DELETE request and removes the
	managed object instance successfully from the NPAC SMS
	Simulator.

13.6.4 MOC.LSMS.VAL.CRE.AUTO.lsmsFilterNPA-NXX

Purpose	To test the LSMS's ability to CREATE a lsmsFilterNPA-NXX
	managed object instance in the NPAC SMS Simulator using
	automatic instance naming.
Severity	С
Severity Explanation	Does not impact ability to provide LNP service. Required if the service provider will be managing the lsmsFilterNPA-NXX objects.
Prerequisites	MOC.LSMS.CAP.OP.CRE.lsmsFilterNPA-NXX
Procedure	 LSMS sends a valid M-CREATE request for the lsmsFilterNPA-NXX object NPAC SMS Simulator responds with a successful M-CREATE response.
Expected Results	The LSMS issues a valid M-CREATE request with automatic instance naming causing the lsmsFilterNPA-NXX instance to be created and its attributes populated successfully in the NPAC SMS Simulator.

13.6.5 MOC.LSMS.VAL.GET.SCOP.FILT.lsmsFilterNPA-NXX

Purpose	To test the LSMS's ability to initiate a valid scoped and filtered M-GET request for all the attributes of a lsmsFilterNPA-NXX object. This will be accomplished by retrieving all the attributes within an agreed upon lsmsFilterNPA-NXX-Value range, starting at the base managed object serviceProv and ending at the lsmsFilterNPA-NXX.
Severity	O
Severity Explanation	Does not impact ability to provide LNP service.
Prerequisites	lsmsFilterNPA-NXX managed object instances have been created.
Procedure	 LSMS sends a valid M-GET request for the lsmsFilterNPA- NXXs attributes with a filter to retrieve only those in the specified lsmsFilterNPA-NXX-Value range. NPAC SMS Simulator responds with a successful M-GET result containing the attribute.
Expected Results	The LSMS issues a valid M-GET request and retrieves the attribute successfully from the NPAC SMS Simulator.

13.6.6 MOC.LSMS.VAL.DEL.SCOP.FILT.IsmsFilterNPA-NXX

Purpose	To test the LSMS's ability to initiate a valid scoped and filtered M-
	DELETE request for an existing managed object instance. This will
	be accomplished by deleting all the lsmsFilterNPA-NXX instances
	with the lsmsFilterNPA-NXX-Value equal to an agreed upon value,

	starting at the base managed object serviceProv and ending at the
	lsmsFilterNPA-NXX.
Severity	0
Severity Explanation	Does not impact ability to provide LNP service. May be used to
	satisfy the requirements instead of Test Case
	MOC.LSMS.CAP.OP.DEL.lsmsFilterNPA-NXX.
Prerequisites	lsmsFilterNPA-NXX managed object instance with above
	lsmsFilterNPA-NXX-Value attribute have been created.
Procedure	LSMS sends a valid M-DELETE request for the
	lsmsFilterNPA-NXX object with a filter to delete only that
	which is equal to a specified lsmsFilterNPA-NXX-Value.
	2. NPAC SMS Simulator responds with a successful M-GET
	result containing the attribute.
Expected Results	The LSMS issues a valid M-DELETE request with a correct scope
•	and filter causing the above instance to be removed successfully
	from the NPAC SMS Simulator.

13.6.7 MOC.LSMS.INV.CRE.lsmsFilterNPA-NXX

Purpose	To test the LSMS's ability to handle the M-CREATE error response duplicateManagedObjectInstance error to a previously initiated and valid M-CREATE request for the lsmsFilterNPA-NXX MO.
Severity	C
Severity Explanation	Does not impact ability to provide LNP service. Required if the service provider will be managing the lsmsFilterNPA-NXX objects.
Prerequisites	MOC.LSMS.CAP.OP.CRE.lsmsFilterNPA-NXX
Procedure	 LSMS sends a valid M-CREATE request for the lsmsFilterNPA-NXX object. NPAC SMS Simulator responds with a duplicateManagedObjectInstance error.
Expected Results	The LSMS correctly handles the error response duplicateManagedObjectInstance error from the NPAC SMS Simulator.

13.6.8 MOC.LSMS.INV.GET.IsmsFilterNPA-NXX

Purpose	To test the LSMS's ability to handle the M-GET error response operationCancelled error to a previously initiated and valid M-GET request for all the attributes of the lsmsFilterNPA-NXX object.
Severity	C
Severity Explanation	Does not impact ability to provide LNP service. Required if the service provider will be managing the lsmsFilterNPA-NXX objects.
Prerequisites	MOC.LSMS.CAP.OP.GET.lsmsFilterNPA-NXX
Procedure	LSMS sends a valid M-GET request for all the attributes of a lsmsFilterNPA-NXX object. NPAC SMS Simulator responds with an operationCancelled error.
Expected Results	The LSMS correctly handles the error response operationCancelled error from the NPAC SMS Simulator.

13.6.9 MOC.LSMS.INV.DEL.lsmsFilterNPA-NXX

Purpose	To test the LSMS's ability to handle the M-DELETE error response processingFailure error to a previously initiated and valid M-DELETE request for an existing lsmsFilterNPA-NXX managed object instance.
Severity	C
Severity Explanation	Does not impact ability to provide LNP service. Required if the service provider will be managing the lsmsFilterNPA-NXX objects.
Prerequisites	MOC.LSMS.CAP.OP.DEL.lsmsFilterNPA-NXX
Procedure	 LSMS sends a valid M-DELETE request for the lsmsFilterNPA-NXX object. NPAC SMS Simulator responds with a processingFailure error.
Expected Results	The LSMS correctly handles the error response processingFailure error from the NPAC SMS Simulator.

13.7 <u>subscriptionVersionNPAC</u>

МО	subscriptionVersionNPAC
Purpose	This section contains the test cases for the subscriptionVersionNPAC Managed Object Class pertaining to the LSMS to NPAC SMS Interface, as part of the Managed Object Conformance testing of the NPAC SMS Interoperability Test.
Prerequisite	A LSMS Network and Subscription Data Download association function is established. A lnpNPAC-SMS and lnpSubscriptions Managed Object Instances have been created inherently. All the lnpSubscriptions test cases have been performed.

13.7.1 MOC.LSMS.CAP.OP.GET.subscriptionVersionNPAC

Purpose	To test the LSMS's ability to GET all the attributes of the subscriptionVersionNPAC managed object instance.
Severity	0
Severity Explanation	Does not impact providing LNP service.
Prerequisites	A subscriptionVersionNPAC managed object instance has been created on the NPAC SMS Simulator.
Procedure	 LSMS sends a valid M-GET request for the lsmsFilterNPA- NXX object. NPAC SMS Simulator responds with a successful M-GET result containing all the attributes.
Expected Results	The LSMS issues a valid M-GET request and retrieves the attributes successfully from the NPAC SMS Simulator.

13.7.2 MOC.LSMS.CAP.NOT.subscriptionVersionNewNPA-NXX

Purpose	To test the LSMS's ability to receive the M-EVENT-REPORT for the subscriptionVersionNPAC subscriptionVersionNewNPA-NXX notification.
Severity	R
Severity Explanation	Needed to inform the LSMS of a new NPA-NXX opened porting.

Prerequisites	A subscriptionVersionNPAC managed object instance has been
•	created on the NPAC SMS Simulator.
Procedure	NPAC SMS Simulator sends a valid
	subscriptionVersionNewNPA-NXX M-EVENT-REPORT.
	2. LSMS confirms the M-EVENT-REPORT.
Expected Results	The LSMS responds with a valid M-EVENT-REPORT
,	confirmation.

13.7.3 MOC.LSMS.VAL.GET.SCOP.subscriptionVersionNPAC

Purpose	To test the LSMS's ability to initiate a valid scoped M-GET request for all attributes of a subscrptionVersionNPAC object. This will be accomplished by retrieving all the attributes starting at the base managed object lnpSubscriptions and ending at the subscriptionVersionNPAC with filtering on an agreed upon TN range.
Severity	0
Severity Explanation	Does not impact providing LNP service.
Prerequisites	Multiple subscriptionVersionNPAC managed object instances have been created.
Procedure	 LSMS sends a valid M-GET request for the attributes with the filter set for the specified TN-range. NPAC SMS Simulator responds with the M-GET results containing the attribute.
Expected Results	The LSMS issues a valid M-GET request and retrieves the attributes successfully from the NPAC SMS Simulator.

13.7.4 MOC.LSMS.INV.GET.subscriptionVersionNPAC

Purpose	To test the LSMS's ability to handle the M-GET error response noSuchObjectInstance error to a previously initiated and valid M-GET request for all the attributes of a subscriptionVersionNPAC
Consorite	object.
Severity	U
Severity Explanation	Does not impact providing LNP service.
Prerequisites	MOC.LSMS.CAP.OP.GET.subscriptionVersionNPAC
Procedure	 LSMS sends a valid M-GET request for all the attributes of a subscriptionVersionNPAC object. NPAC SMS Simulator responds with a noSuchObjectInstance error.
Expected Results	The LSMS correctly handles the error response noSuchObjectInstance error from the NPAC SMS Simulator.

13.7.5 MOC.LSMS.INV.NOT.subscriptionVersionNPAC

Purpose	To test the LSMS's ability to handle the M-EVENT-REPORT for the subscriptionVersionNPAC's subscriptionVersionNewNPA-NXX
	notification with an invalid syntax for the NPA-NXX Value attribute.

Severity	0
Severity Explanation	Does not impact providing LNP service.
Prerequisites	MOC.LSMS.CAP.NOT.subscriptionVersionNewNPA-NXX
Procedure	NPAC SMS Simulator sends a valid subscriptionVersionNewNPA-NXX M-EVENT-REPORT. LSMS responds with invalidArgumentValue or other appropriate error response.
Expected Results	The LSMS rejects the M-EVENT-REPORT with invalid syntax.

13.7.6 MOC.LSMS.BND.GET.MAXQ.subscriptionVersionNPAC

Purpose	To test the behaviour of the LSMS when it receives the responses to a valid scoped M-GET, which will return the maximum number of records specified in the NPAC SMS Simulator <max query="" subscriber=""> parameter. This will be accomplished by requesting any single attribute for all the existing subscriptionVersionNPAC managed object instances.</max>
Severity	С
Severity Explanation	Must be performed if scope and filtered M-GETs are being used.
Prerequisites	The number of subscriptionVersionNPAC managed object instances created is equal to the Max Subscriber Query parameter.
Procedure	 LSMS sends a valid M-GET request for the attribute with a filter specified that requires Max Subscriber Query subscription versions to be returned. NPAC SMS Simulator with the linked replies for all the subscription versions.
Expected Results	The LSMS handles the linked replies properly.

13.7.7 MOC.LSMS.INV.QUERY.SCOPED.subscriptionVersion

Purpose	To verify a LSMS can handle a scoped filtered query request error.
Severity	С
Severity Explanation	Test case should be executed if the LSMS will be supporting scoped filtered subscription version query.
Prerequisites	subscriptionVersionNPACs exist on the NPAC SMS Simulator.
Procedure	The LSMS issues a scoped filtered M-GET for a range of subscription versions where the number of subscription versions that satisfy the request exceeds the maximum number of subscription versions that can be retrieved in one request. The NPAC SMS Simulator responds with an M-GET error of complexityLimitation.
Expected Results	The LSMS successfully initiates the M-GET and successfully handles the M-GET error response.
	nandies die M-GE1 effol lesponse.

13.8 serviceProvNetwork

МО	serviceProvNetwork
Purpose	This section contains the test cases for the serviceProvNetwork Managed Object Class pertaining to the LSMS to NPAC SMS Interface, as part of the
	Managed Object Conformance testing of the NPAC SMS Interoperability

	Test.
Prerequisite	A Service Provider and Network Data Management association function is
•	established. A lnpNPAC-SMS and a lnpNetwork Managed Object Instances
	have been created inherently. A serviceProvNetwork Managed Object
	Instance has been created locally by the NPAC SMS Simulator personnel.

13.8.1 MOC.LSMS.CAP.OP.GET.serviceProvNetwork

Purpose	To test the LSMS's ability to GET all the attributes of the serviceProvNetwork managed object instance.
Severity	0
Severity Explanation	Does not impact ability to provide LNP service.
Prerequisites	MOC.LSMS.CAP.OP.SET.serviceProvNetwork
Procedure	 LSMS sends a valid M-GET request all attributes of the serviceProvNetwork object. NPAC SMS Simulator with the M-GET result containing all attributes.
Expected Results	The LSMS issues a valid M-GET request and retrieves all the attributes (i.e. serviceProvId and serviceProvName) successfully from the NPAC SMS Simulator.

13.8.2 MOC.LSMS.INV.GET.serviceProvNetwork

Purpose	To test the LSMS's ability to handle the M-GET error response processingFailure error to a previously initiated and valid M-GET request for all the attributes of the serviceProvNetwork object.
Severity	0
Severity Explanation	Does not impact ability to provide LNP service.
Prerequisites	MOC.LSMS.CAP.OP.GET.serviceProvNetwork
Procedure	 LSMS sends a valid M-GET request for all the attributes of the serviceProvNetwork object. NPAC SMS Simulator with a processingFailure error.
Expected Results	The LSMS correctly handles the error response processingFailure error from the NPAC SMS Simulator.

13.9 <u>serviceProvNPA-NXX</u>

МО	serviceProvNPA-NXX
Purpose	This section contains the test cases for the serviceProvNPA-NXX Managed Object Class pertaining to the LSMS to NPAC SMS Interface, as part of the Managed Object Conformance testing of the NPAC SMS Interoperability Test.
Prerequisite	A Service Provider and Network Data Management is established. A lnpNPAC-SMS and a lnpNetwork Managed Object Instances have been created inherently. All the test cases for the serviceProvNetwork Managed Object Class have been completed.

13.9.1 MOC.LSMS.CAP.OP.GET.serviceProvNPA-NXX

Purpose	To test the LSMS's ability to GET all the attributes of the serviceProvNPA-NXX managed object instance.
Severity	0
Severity Explanation	Does not impact ability to provide LNP service.
Prerequisites	MOC.LSMS.VAL.CRE.AUTO.serviceProvNPA-NXX
Procedure	LSMS sends a valid M-GET request for all the attributes of a serviceProvNPA-NXX object. NPAC SMS Simulator responds with a successful M-GET result.
Expected Results	The LSMS issues a valid M-GET request and retrieves the attributes successfully from the NPAC SMS Simulator.

13.9.2 MOC.LSMS.CAP.OP.DEL.serviceProvNPA-NXX

Purpose	To test the LSMS's ability to DELETE an existing serviceProvNPA-NXX managed object instance from the NPAC SMS Simulator.
Severity	C
Severity Explanation	Does not impact ability to provide LNP service. Required if the LSMS is managing network data.
Prerequisites	MOC.LSMS.VAL.CRE.AUTO.serviceProvNPA-NXX
Procedure	 LSMS sends a valid M-DELETE request for the serviceProvNPA-NXX object. NPAC SMS Simulator responds with a successful M-DELETE response.
Expected Results	The LSMS issues a valid M-DELETE request and removes the managed object instance successfully from the NPAC SMS Simulator.

13.9.3 MOC.LSMS.VAL.CRE.AUTO.serviceProvNPA-NXX

Purpose	To test the LSMS's ability to CREATE a serviceProvNPA-NXX managed object instance in the NPAC SMS Simulator using automatic instance naming.
Severity	С
Severity Explanation	Does not impact ability to provide LNP service. Required if the LSMS is managing network data.
Prerequisites	
Procedure	 LSMS sends a valid M-CREATE request for a serviceProvNPA-NXX object. NPAC SMS Simulator responds with a successful M-CREATE response.
Expected Results	The LSMS issues a valid M-CREATE request with automatic instance naming causing the serviceProvNPA-NXX instance to be created and its attributes populated successfully in the NPAC SMS Simulator.

13.9.4 MOC.LSMS.VAL.GET.SCOP.FILT.serviceProvNPA-NXX

Purpose	To test the LSMS's ability to initiate a valid scoped and filtered M-GET request for a single attribute. This will be accomplished by retrieving all the attributes for the agreed upon NPA-NXX (i.e. filtering on serviceProvNPA-NXX-Value equal to that number) starting at the base managed object serviceProvNetwork and ending at the serviceProvNPA-NXX.
Severity	0
Severity Explanation	Does not impact ability to provide LNP service.
Prerequisites	A serviceProvNPA-NXX managed object instance with above serviceProvNPA-NXX-Value attribute has been created.
Procedure	LSMS sends a valid M-GET request for the attributes of the serviceProvNPA-NXX object with a filter on the serviceProvNPA-NXX-Value for the agreed upon value. NPAC SMS Simulator responds with a successful M-GET result containing the specified attribute
Expected Results	The LSMS issues a valid M-GET request and retrieves the attribute successfully from the NPAC SMS Simulator.

13.9.5 MOC.LSMS.VAL.DEL.SCOP.FILT.serviceProvNPA-NXX

Purpose	To test the LSMS's ability to initiate a valid scoped and filtered M-DELETE request for an existing managed object instance. This will be accomplished by deleting all the serviceProvNPA-NXX instances with the serviceProvNPA-NXX-Value equal to an agreed upon NPA-NXX, starting at the base managed object serviceProvNetwork and ending at the serviceProvNPA-NXX.
Severity	0
Severity Explanation	Does not impact ability to provide LNP service. This function may be satisfied by deleting instances one at a time. May be used to satisfy the requirements instead of Test Case MOC.LSMS.CAP.OP.DEL.serviceProvNPA-NXX.
Prerequisites	A serviceProvNPA-NXX managed object instance with above serviceProvNPA-NXX-Value attribute has been created.
Procedure	 LSMS sends a valid M-DELETE request for the serviceProvNetwork object with a filter set to the agreed upon serviceProvNPA-NXX-Value. NPAC SMS Simulator responds with a successful M-DELETE response.
Expected Results	The LSMS issues a valid M-DELETE request with a correct scope and filter causing the above instance to be removed successfully from the NPAC SMS Simulator.

13.9.6 MOC.LSMS.INV.CRE.serviceProvNPA-NXX

Purpose	To test the LSMS's ability to handle the M-CREATE error response duplicateManagedObjectInstance error to a previously initiated and valid M-CREATE request for the serviceProvNPA-NXX MO.
Severity	С
Severity Explanation	Does not impact ability to provide LNP service. Required if the LSMS is managing network data.

Prerequisites	MOC.LSMS.VAL.CRE.AUTO.serviceProvNPA-NXX
Procedure	LSMS sends a valid M-CREATE request for the
	serviceProvNPA-NXX object.
	2. NPAC SMS Simulator responds with a
	duplicateManagedObjectInstance error.
Expected Results	The LSMS correctly handles the error response
•	duplicateManagedObjectInstance error from the NPAC SMS
	Simulator.

13.9.7 MOC.LSMS.INV.GET.serviceProvNPA-NXX

Purpose	To test the LSMS's ability to handle the M-GET error response operationCancelled error to a previously initiated and valid M-GET request for all the attributes of the serviceProvNPA-NXX object.
Severity	0
Severity Explanation	Does not impact ability to provide LNP service.
Prerequisites	MOC.LSMS.CAP.OP.GET.serviceProvNPA-NXX
Procedure	 LSMS sends a valid M-GET request for all the attributes of a serviceProvNPA-NXX object. NPAC SMS Simulator with the operationCancelled error.
Expected Results	The LSMS correctly handles the error response operationCancelled error from the NPAC SMS Simulator.

13.9.8 MOC.LSMS.INV.DEL.serviceProvNPA-NXX

Purpose	To test the LSMS's ability to handle the M-DELETE error response processingFailure error to a previously initiated and valid M-DELETE request for an existing serviceProvNPA-NXX managed object instance.
Severity	C
Severity Explanation	Does not impact ability to provide LNP service. Required if the LSMS is managing network data.
Prerequisites	MOC.LSMS.CAP.OP.DEL.serviceProvNPA-NXX
Procedure	 LSMS sends a valid M-DELETE request for serviceProvNPA- NXX object. NPAC SMS Simulator with the processingFailure error.
Expected Results	The LSMS correctly handles the error response processingFailure error from the NPAC SMS Simulator.

13.10 serviceProvLRN

МО	serviceProvLRN
Purpose	This section contains the test cases for the serviceProvLRN Managed Object Class pertaining to the LSMS to NPAC SMS Interface, as part of the Managed Object Conformance testing of the NPAC SMS Interoperability Test.
Prerequisite	A Service Provider and Network Data Management association function is established. A lnpNPAC-SMS and a lnpNetwork Managed Object Instances have been created inherently. All the test cases for the serviceProvNetwork

Managed Object Class have been performed.

13.10.1 MOC.LSMS.CAP.OP.GET.serviceProvLRN

Purpose	To test the LSMS's ability to GET all the attributes of the
-	serviceProvLRN managed object instance.
Severity	0
Severity Explanation	Does not impact ability to provide LNP service.
Prerequisites	A serviceProvLRN managed object instance with above serviceProvLRN-Value attribute has been created.
Procedure	 LSMS sends a valid M-GET request for all the attributes of a serviceProvLRN object. NPAC SMS Simulator responds with a successful M-GET result containing all attributes.
Expected Results	The LSMS issues a valid M-GET request and retrieves the attributes successfully from the NPAC SMS Simulator.

13.10.2 MOC.LSMS.CAP.OP.DEL.serviceProvLRN

Purpose	To test the LSMS's ability to DELETE an existing serviceProvLRN managed object instance from the NPAC SMS Simulator.
Severity	C
Severity Explanation	Does not impact ability to provide LNP service. Required if the service provider is managing network data.
Prerequisites	A serviceProvLRN managed object instance with above serviceProvLRN-Value attribute has been created.
Procedure	 LSMS sends a valid M-DELETE request for a serviceProvLRN object. NPAC SMS Simulator responds with a successful M-DELETE response.
Expected Results	The LSMS issues a valid M-DELETE request and removes the managed object instance successfully from the NPAC SMS Simulator.

13.10.3 MOC.LSMS.VAL.CRE.AUTO.serviceProvLRN

Purpose	To test the LSMS's ability to CREATE a serviceProvLRN managed object instance in the NPAC SMS Simulator using automatic instance naming.
Severity	C
Severity Explanation	Does not impact ability to provide LNP service. Required if the service provider is managing network data.
Prerequisites	
Procedure	 LSMS sends a valid M-CREATE request for a serviceProvLRN object. NPAC SMS Simulator responds with a successful M-CREATE response.
Expected Results	The LSMS issues a valid M-CREATE request with automatic instance naming causing the serviceProvLRN instance to be created and its attributes populated successfully in the NPAC SMS

Simulator.

13.10.4 MOC.LSMS.VAL.GET.SCOP.FILT.serviceProvLRN

Purpose	To test the LSMS's ability to initiate a valid scoped and filtered M-GET request for all attributes. This will be accomplished by retrieving all the attributes for a specified LRN value (i.e. filtering on serviceProvLRN-Value equal to that number) starting at the base managed object serviceProvNetwork and ending at the serviceProvLRN.
Severity	0
Severity Explanation	Does not impact ability to provide LNP service. This functionality may be satisfied by getting instances one at a time.
Prerequisites	A serviceProvLRN managed object instance with above serviceProvLRN-Value attribute has been created.
Procedure	LSMS sends a valid M-GET request for the attributes of the serviceProvLRN object with a filter for the specified serviceProvLRN-Value. NPAC SMS Simulator responds with a successful M-GET result containing the attribute.
Expected Results	The LSMS issues a valid M-GET request and retrieves the attribute successfully from the NPAC SMS Simulator.

13.10.5 MOC.LSMS.VAL.DEL.SCOP.FILT.serviceProvLRN

Purpose	To test the LSMS's ability to initiate a valid scoped and filtered M-DELETE request for an existing managed object instance. This will be accomplished by deleting all the serviceProvLRN instances with the serviceProvLRN-Value equal to the NPA-NXX, starting at the base managed object serviceProvNetwork and ending at the serviceProvLRN.
Severity	0
Severity Explanation	Does not impact ability to provide LNP service. This functionality may also be satisfied by deleting instances one at a time. May be used to satisfy the requirements instead of MOC.LSMS.CAP.OP.DEL.serviceProvLRN.
Prerequisites	A serviceProvLRN managed object instance with above serviceProvLRN-Value attribute has been created.
Procedure	 LSMS sends a valid M-DELETE request for the serviceProvLRN object with a filter for the specified serviceProvLRN-Value. NPAC SMS Simulator responds with a successful M-DELETE response.
Expected Results	The LSMS issues a valid M-DELETE request with a correct scope and filter causing the above instance to be removed successfully from the NPAC SMS Simulator.

13.10.6 MOC.LSMS.INV.CRE.serviceProvLRN

	duplicateManagedObjectInstance error to a previously initiated and valid M-CREATE request for the serviceProvLRN MO.
Severity	С
Severity Explanation	Does not impact ability to provide LNP service. Required if the service provider is managing network data.
Prerequisites	MOC.LSMS.VAL.CRE.AUTO.serviceProvLRN
Procedure	 LSMS sends a valid M-CREATE request for a serviceProvLRN object. NPAC SMS Simulator responds with a duplicateManagedObjectInstance error.
Expected Results	The LSMS correctly handles the error response duplicateManagedObjectInstance error from the NPAC SMS Simulator.

13.10.7 MOC.LSMS.INV.GET.serviceProvLRN

Purpose	To test the LSMS's ability to handle the M-GET error response operationCancelled error to a previously initiated and valid M-GET request for all the attributes of a serviceProvLRN object.
Severity	0
Severity Explanation	Does not impact ability to provide LNP service.
Prerequisites	MOC.LSMS.CAP.OP.GET.serviceProvLRN
Procedure	LSMS sends a valid M-GET request for all the attributes of a serviceProvLRN object. NPAC SMS Simulator responds with an operationCancelled error.
Expected Results	The LSMS correctly handles the error response operationCancelled error from the NPAC SMS Simulator.

13.10.8 MOC.LSMS.INV.DEL.serviceProvLRN

Purpose	To test the LSMS's ability to handle the M-DELETE error response processingFailure error to a previously initiated and valid M-DELETE request for an existing serviceProvLRN managed object instance.
Severity	C
Severity Explanation	Does not impact ability to provide LNP service. Required if the service provider is managing network data.
Prerequisites	MOC.LSMS.CAP.OP.DEL.serviceProvLRN
Procedure	 LSMS sends a valid M-DELETE request for a serviceProvLRN object. NPAC SMS Simulator responds with a processingFailure error.
Expected Results	The LSMS correctly handles the error response processingFailure error from the NPAC SMS Simulator.

13.11 <u>numberPoolBlockNPAC</u>

МО	numberPoolBlockNPAC	
Purpose	This section contains the test cases for the numberPoolBlockNPAC Managed	

	Object Class pertaining to the LSMS to NPAC SMS Interface as part of the MOC testing of the NPAC SMS Simulator Interoperability Test.	
Prerequisite	 A LSMS Network and Subscription Data Download Management association function is established. InpNPAC-SMS and InpSubscription Managed Object Instances exist. 	

13.11.1 MOC.LSMS.CAP.OP.GET.numberPoolBlockNPAC

Purpose	Verify the LSMS's ability to GET all the attributes of the numberPoolBlockNPAC managed object instance.
Severity	0
Severity Explanation	Does not impact ability to provide LNP service.
Prerequisites	A numberPoolBlockNPAC object exists on the NPAC SMS Simulator.
Procedure	 LSMS issues a valid M-GET request for all attributes of the numberPoolBlockNPAC object. NPAC SMS Simulator responds with a successful M-GET result containing all attributes.
Expected Results	LSMS issues a valid M-GET request and retrieves the attributes successfully from the NPAC SMS Simulator.

13.11.2 MOC.LSMS.VAL.GET.SCOP.numberPoolBlockNPAC

Purpose	Verify the LSMS's ability to initiate a valid scoped M-GET request for all the attributes of the numberPoolBlockNPAC managed object instance. This will be accomplished by retrieving all the attributes starting at the base managed object lnpSubscriptions and ending at the numberPoolBlockNPAC.
Severity	0
Severity Explanation	Does not impact ability to provide LNP service.
Prerequisites	Multiple numberPoolBlockNPAC objects exist on the NPAC SMS Simulator.
Procedure	 LSMS issues a valid scoped and filtered M-GET request for the numberPoolBlockNPAC object(s). NPAC SMS Simulator responds with a successful M-GET result containing all attributes.
Expected Results	LSMS issues a valid M-GET request and retrieves the object(s) successfully from the NPAC SMS Simulator.

13.11.3 MOC.LSMS.INV.GET.numberPoolBlockNPAC

Purpose	Verify the LSMS's ability to handle an error response, noSuchObjectInstance error, to a previously initiated and valid M-GET request for all the attributes of a numberPoolBlockNPAC managed object instance.
Severity	0
Severity Explanation	Does not impact ability to provide LNP service.
Prerequisites	A numberPoolBlockNPAC exists on the NPAC SMS Simulator.
Procedure	 LSMS issues a valid M-GET request for all attributes of the numberPoolBlockNPAC object. NPAC SMS Simulator responds with a processingFailure error.
Expected Results	LSMS successfully handles the error response from the NPAC SMS

Simulator.

13.11.4 MOC.LSMS.INV.GET.SCOP.numberPoolBlockNPAC

Purpose	Verify the LSMS's ability to handle an error response,
• •	processingFailure, to a previously initiated and valid scope and
	filtered M-GET request for all the attributes of a
	numberPoolBlockNPAC managed object instance.
Severity	0
Severity Explanation	Does not impact ability to provide LNP service.
Prerequisites	A numberPoolBlockNPAC exists on the NPAC SMS Simulator.
Procedure	1. LSMS issues a valid scope and filtered M-GET request for all
	attributes of the numberPoolBlockNPAC object.
	2. NPAC SMS Simulator responds with a processingFailure error.
Expected Results	LSMS successfully handles the error response from the NPAC SMS
•	Simulator.

13.12 <u>serviceProvNPA-NXX-X</u>

МО	numberPoolBlockNPAC	
Purpose	This section contains the test cases for the serviceProvNPA-NXX-X Managed	
	Object Class pertaining to the LSMS to NPAC SMS Interface as part of the	
	MOC testing of the NPAC SMS Simulator Interoperability Test.	
Prerequisite	A LSMS Service Provider and Network Data Download Management	
_	association function is established.	
	InpNPAC-SMS and InpNetwork Managed Object Instances exist.	

13.12.1 MOC.LSMS.CAP.OP.GET.serviceProvNPA-NXX-X

Purpose	Verify the LSMS's ability to GET all the attributes of the
	serviceProvNPA-NXX-X managed object instance.
Severity	0
Severity Explanation	Does not impact ability to provide LNP service.
Prerequisites	A serviceProvNPA-NXX-X object exists on the NPAC SMS Simulator.
Procedure	 LSMS issues a valid M-GET request for all attributes of the serviceProvNPA-NXX object. NPAC SMS Simulator responds with a successful M-GET result containing all attributes.
Expected Results	LSMS issues a valid M-GET request and retrieves the attributes successfully from the NPAC SMS Simulator.

13.12.2 MOC.LSMS.VAL.GET.SCOP.serviceProvNPA-NXX-X

Purpose	Verify the LSMS's ability to initiate a valid scoped M-GET request for all the attributes of the serviceProvNPA-NXX-X managed object instance. This will be accomplished by retrieving all the attributes starting at the base managed object lnpSubscriptions and ending at the serviceProvNPA-NXX-X.
Severity	0

Severity Explanation	Does not impact ability to provide LNP service.
Prerequisites	Multiple serviceProvNPA-NXX-X objects exist on the NPAC SMS
,	Simulator.
Procedure	 LSMS issues a valid scoped and filtered M-GET request for the serviceProvNPA-NXX-X object(s). NPAC SMS Simulator responds with a successful M-GET result containing all attributes.
Expected Results	LSMS issues a valid M-GET request and retrieves the object(s)
_	successfully from the NPAC SMS Simulator.

13.12.3 MOC.LSMS.INV.GET.serviceProvNPA-NXX-X

Purpose	Verify the LSMS's ability to handle an error response, noSuchObjectInstance error, to a previously initiated and valid M-
	GET request for all the attributes of a serviceProvNPA-NXX-X managed object instance.
Severity	0
Severity Explanation	Does not impact ability to provide LNP service.
Prerequisites	A serviceProvNPA-NXX-X exists on the NPAC SMS Simulator.
Procedure	 LSMS issues a valid M-GET request for all attributes of the serviceProvNPA-NXX-X object. NPAC SMS Simulator responds with a processingFailure error.
Expected Results	LSMS successfully handles the error response from the NPAC SMS Simulator.

13.12.4 MOC.LSMS.INV.GET.SCOP.serviceProvNPA-NXX-X

Purpose	Verify the LSMS's ability to handle an error response,
	processingFailure, to a previously initiated and valid scope and
	filtered M-GET request for all the attributes of a serviceProvNPA-
	NXX-X managed object instance.
Severity	0
Severity Explanation	Does not impact ability to provide LNP service.
Prerequisites	A serviceProvNPA-NXX-X exists on the NPAC SMS Simulator.
Procedure	1. LSMS issues a valid scope and filtered M-GET request for all
	attributes of the serviceProvNPA-NXX-X object.
	2. NPAC SMS Simulator responds with a processing Failure error.
Expected Results	LSMS successfully handles the error response from the NPAC SMS
•	Simulator.

14 NPAC to LSMS MOC Test Cases

14.1 InpLocaISMS

МО	LnpLocalSMS
Purpose	This section contains test cases for the lnpLocalSMS Managed Object Class pertaining to the NPAC SMS Simulator to Local SMS Interface, as part of the Managed Object Conformance testing of the interoperability test. This capability test package checks the LSMS's existence and basic validity of the specified capabilities.
Prerequisite	A Service Provider and Network Data Management association function is established. The LSMS has successfully completed the Stack-to-Stack Interoperability testing.

14.1.1 MOC.NPAC.CAP.OP.GET.InpLocalSMS

Purpose	Verify the capability of the lnpLocalSMS managed object class to correctly respond to an M-GET request. The NPAC SMS Simulator intends to GET all the attributes.
Severity	0
Severity Explanation	Not required for LNP provisioning. However, LSMS can perform to verify managed object class.
Prerequisites	An instance has been inherently created on the LSMS.
Procedure	 NPAC SMS Simulator sends a valid M-GET request for the lnpLocalSMS object. LSMS responds with a successful M-GET result.
Expected Results	The NPAC SMS Simulator receives a getResult with the correct attribute information for all attributes.

14.1.2 MOC.NPAC.INV.CRE.INH.InpLocalSMS

Purpose	This test case checks the LSMS's ability of responding to semantically invalid CMIP request. The NPAC SMS Simulator sends M-CREATE request intending to create an instance that can only be created inherently on Local SMS.
Severity	0
Severity Explanation	Not required for LNP provisioning. LSMS may perform to verify error handling.
Prerequisites	A lnpLocalSMS instance exists on Local SMS.
Procedure	 NPAC SMS Simulator sends a syntactically valid M-CREATE request for the lnpLocalSMS object for the attribute. LSMS responds with a DuplicateManagedObjectInstance error.
Expected Results	The NPAC SMS Simulator receives an error response with DuplicateManagedObjectInstance error. No instance is created on LSMS.

14.1.3 MOC.NPAC.INV.SET.InpLocalSMS

Purpose	This test case checks the LSMS's ability to respond to semantically invalid CMIP request. The NPAC SMS Simulator sends out an MSET intending to override the read-only attribute lnpLocal-SMS-Name.
Severity	0
Severity Explanation	Not required for LNP provisioning. LSMS may perform to verify error handling.
Prerequisites	A lnpLocalSMS instance exists.
Procedure	NPAC SMS Simulator sends a syntactically valid M-SET request to the lnpLocalSMS object for the lnpLocal-SMS-Name attribute. LSMS responds with a setListError error response.
Expected Results	The NPAC SMS Simulator receives a SetListError error response. The attribute is not replaced.

14.1.4 MOC.NPAC.INV.DEL.InpLocalSMS

Purpose	This test case checks the LSMS's ability to respond to semantically invalid CMIP request. The NPAC SMS Simulator sends out an M-DELETE request intending to delete the lnpLocalSMS instance.
Severity	0
Severity Explanation	Not required for LNP provisioning. LSMS may perform to verify error handling.
Prerequisites	A lnpLocalSMS instance exists.
Procedure	NPAC SMS Simulator sends a syntactically valid M-DELETE request to the lnpLocalSMS object for the lnpLocal-SMS-Name attribute. LSMS responds with a processingFailure error response.
Expected Results	The NPAC SMS Simulator receives a processingFailure error response. The instance is not removed from the LSMS.

14.1.5 MOC.LSMS.CAP.NOT.InpNPAC-SMS-Operational-Information

Purpose	To test the LSMS's ability to receive the M-EVENT-REPORT for the lnpNPAC-SMS-Operational-Information Notification.
Severity	R
Severity Explanation	This test case is required for LSMS functionality.
Prerequisites	A lnpNPAC-SMS MO instance has been inherently created.
Procedure	The NPAC SMS Simulator sends a InpNPAC-SMS- Operational-Information M-EVENT-REPORT to the LSMS to inform them of coming downtime. The LSMS responds with the M-EVENT-REPORT confirmation.
Expected Results	The LSMS receives the M-EVENT-REPORT and sends notification confirmation to the NPAC SMS.

14.2 InpSubscriptions

МО	InpSubscriptions
Purpose	This section contains test cases for the lnpSubscriptions Managed Object Class pertaining to the NPAC SMS Simulator NPAC SMS Simulator to Local SMS Interface, as part of the Managed Object Conformance testing of the interoperability test. This capability test package checks the LSMS's existence and basic validity of the specified capabilities.
Prerequisite	A LSMS Network and Subscription Data Download association function is established. The LSMS has successfully completed the Stack-to-Stack Interoperabilty testing. The LSMS has successfully completed the MOC.NPAC.CAP.lnpLocalSMS test package.

14.2.1 MOC.NPAC.CAP.OP.GET.InpSubscriptions

Purpose	Verify the capability of the lnpSubscriptions managed object class to correctly respond to an M-GET request. The NPAC SMS Simulator intends to GET all attributes.
Severity	O
Severity Explanation	Does not impact ability to provide LNP service. Not required for LNP provisioning. LSMS may perform to verify object instance.
Prerequisites	A lnpSubscriptions instance exists on LSMS.
Procedure	 NPAC SMS Simulator sends a valid M-GET request to the lnpSubscriptions object for all attributes. LSMS responds with an M-GET result containing all the attributes.
Expected Results	The NPAC SMS Simulator receives a getResult with all the attribute values.

14.2.2 MOC.NPAC.CAP.OP.ACT.InpSubscriptions

Purpose	Verify the capability of the lnpSubscriptions managed object class
•	to correctly respond to a confirmed M-ACTION request. The
	NPAC SMS Simulator intends to perform a
	subscriptionVersionLocalSMS-CreateAction on the object instance.
Severity	R
Severity Explanation	Direct impact on providing LNP service.
Prerequisites	A lnpSubscriptions instance has been inherently created.
Procedure	NPAC SMS Simulator sends the
	subscriptionVersionLocalSMS-CreateAction to the
	InpSubscriptions object.
	2. LSMS responds with a successful LocalSMS-CreateReply M-
	ACTION response.
Expected Results	The NPAC SMS Simulator receives a successful LocalSMS-
•	CreateReply.

14.2.3 MOC.NPAC.CAP.OP.NOT.InpSubscriptions

Purpose	This test case checks the capability of the lnpSubscriptions to correctly send the subscriptionVersionLocalSMS-ActionResults notification for the object instance.
Severity	R
Severity Explanation	Direct impact on providing LNP service.
Prerequisites	A lnpSubscriptions instance has been inherently created.
Procedure	LSMS sends the subscriptionVersionLocalSMS-ActionResults M-EVENT-REPORT to the lnpSubscriptions object. NPAC SMS Simulator confirms the M-EVENT-REPORT.
Expected Results	The NPAC SMS Simulator receives a subscriptionVersionLocalSMS-ActionResults notification.

14.2.4 MOC.NPAC.INV.CRE.INH.InpSubscriptions

Purpose	This test case checks the LSMS's ability to respond to a semantically invalid CMIP request. The NPAC SMS Simulator sends out an M-CREATE intending to create an instance that can only be created inherently on the LSMS.
Severity	0
Severity Explanation	Does not impact ability to provide LNP service. LSMS may perform to verify error handling.
Prerequisites	A lnpLocalSMS instance exists on LSMS.
Procedure	 NPAC SMS Simulator sends a valid M-CREATE request for the lnpSubscriptions object. LSMS responds with a processingFailure or duplicateObjectInstance error.
Expected Results	The NPAC SMS Simulator receives a processingFailure or duplicateObjectInstance response with an ObjectInstance. No instance is created on LSMS.

14.2.5 MOC.NPAC.INV.SET.InpSubscriptions

Purpose	This test case checks the LSMS's ability to respond to semantically invalid CMIP request. The NPAC SMS Simulator sends out an M-
	SET intending to override the read-only attribute
	InpSubscriptionsName.
Severity	0
Severity Explanation	Does not impact ability to provide LNP service. LSMS may
	perform to verify error handling.
Prerequisites	A lnpSubscriptions instance exists.
Procedure	1. NPAC SMS Simulator sends a syntactically valid M-CREATE
	request for the lnpSubscriptions object.
	2. LSMS responds with a setListError error.
Expected Results	The NPAC SMS Simulator receives a SetListError response. Thus
,	the attribute is not replaced.

14.2.6 MOC.NPAC.INV.ACT.SYN.ID.InpSubscriptions

Purpose	This test case checks the LSMS's ability to respond to syntactically invalid CMIP request. The NPAC SMS Simulator sends out a confirmed M-ACTION request with an invalid actionID.
Severity	0
Severity Explanation	
Prerequisites	MOC.NPAC.CAP.OP.ACT.lnpSubscriptions
Procedure	 NPAC SMS Simulator sends a syntactically invalid subscriptionVersionLocalSMS-CreateAction to the lnpSubscriptions object. LSMS responds with an invalidArguementValue error response.
Expected Results	The NPAC SMS Simulator receives an error response with the error type set to invalidArgumentValue. No action is performed as the result.

14.2.7 MOC.NPAC.INV.ACT.SYN.CLS.InpSubscriptions

Purpose	This test case checks the LSMS's ability to respond to syntactically invalid CMIP request. The NPAC SMS Simulator sends out a confirmed M-ACTION request with an invalid object class.
Severity	0
Severity Explanation	
Prerequisites	MOC.NPAC.CAP.OP.ACT.lnpSubscriptions
Procedure	 NPAC SMS Simulator sends a syntactically invalid LocalSMS- CreateAction to the lnpSubscriptions object. LSMS responds with a classInstanceConflict error.
Expected Results	The NPAC SMS Simulator receives a BaseManagedObjectId response with the error type set to classInstanceConflict. No action is performed as the result.

14.2.8 MOC.NPAC.INV.ACT.InpSubscriptions

Purpose	This test case checks the LSMS's ability to respond to syntactically invalid CMIP request. The NPAC SMS Simulator sends out a confirmed M-ACTION request with an invalid action OID.
Severity	0
Severity Explanation	
Prerequisites	MOC.NPAC.CAP.OP.ACT.lnpSubscriptions
Procedure	 NPAC SMS Simulator sends a syntactically invalid LocalSMS- CreateAction to the lnpSubscriptions object. LSMS responds with a noSuchAction error response.
Expected Results	The NPAC SMS Simulator receives a NoSuchAction response. The action is not performed and the NPAC SMS Simulator gets an ActionResult, which indicates that the action failed.

14.2.9 MOC.NPAC.INV.NOT.InpSubscriptions

Purpose	This test case checks the LSMS's ability to handle the

	processingFailure error in response to the subscriptionVersionLocalSMS-ActionResults notification.
Severity	R
Severity Explanation	
Prerequisites	MOC.NPAC.CAP.OP.NOT.lnpSubscriptions
Procedure	 LSMS sends the subscriptionVersionLocalSMS-ActionResults M-EVENT-REPORT to the lnpSubscriptions object. NPAC SMS Simulator replies with a processingFailure error.
Expected Results	The LSMS handles the processingFailure error that is sent by the NPAC SMS Simulator in response to a valid subscriptionVersionLocalSMS-ActionResults notification.

14.2.10 MOC.NPAC.INV.DEL.InpSubscriptions

Purpose	This test case checks the LSMS's ability to respond to semantically invalid CMIP request. The NPAC SMS Simulator sends out an M-DELETE request intending to delete the inherent instance.
Severity	0
Severity Explanation	May be performed to validate LSMS error handling.
Prerequisites	A lnpSubscriptions instance exists on LSMS
Procedure	 NPAC SMS Simulator sends a syntactically valid M-DELETE request to the lnpSubscriptions object. LSMS responds with a processingFailure error response.
Expected Results	The NPAC SMS Simulator receives a processingFailure error response. No instance is removed from the LSMS.

14.3 InpNetwork

МО	InpNetwork
Purpose	This section contains test cases for the InpNetwork Managed Object Class pertaining to the NPAC SMS Simulator to Local SMS Interface, as part of the Managed Object Conformance testing of the interoperability test. This capability test package checks the LSMS's existence and basic validity of the specified capabilities.
Prerequisite	A LSMS Network and Subscription Data Download association function is established. The LSMS has successfully completed the Stack-to-Stack Interoperability testing.

14.3.1 MOC.NPAC.CAP.OP.GET.InpNetwork

Purpose	This test case checks the capability of the lnpNetwork managed
_	object class to correctly respond to an M-GET request. The NPAC
	SMS Simulator intends to GET all the attributes of lnpNetwork.
Severity	0
Severity Explanation	LSMS may perform to verify managed object.
Prerequisites	A lnpNetwork instance exists on LSMS.
Procedure	1. NPAC SMS Simulator sends a valid M-GET request for all the attributes of the lnpNetwork object.

	2. LSMS responds with a successful M-GET result containing all the attributes.
Expected Results	The NPAC SMS Simulator receives a getResult with all attribute information.

14.3.2 MOC.NPAC.INV.CRE.INH.InpNetwork

Purpose	This test case checks the LSMS's ability to respond to semantically invalid CMIP request. The NPAC SMS Simulator sends out an M-CREATE intending to create an instance that can only be created inherently on the LSMS.
Severity	0
Severity Explanation	Does not impact ability to provide LNP service. LSMS may perform to verify error handling.
Prerequisites	A lnpLocalSMS instance exists on LSMS
Procedure	 NPAC SMS Simulator sends a syntactically valid M-CREATE request to the lnpNetwork object. LSMS responds with a processingFailure or duplicateObjectInstance error response.
Expected Results	The NPAC SMS Simulator receives a processingFailure or DuplicateObjectInstance error response. No instance is created on LSMS.

$14.3.3\,MOC.NPAC.INV.SET.InpNetwork$

Purpose	This test case checks the LSMS's ability to respond to a semantically invalid CMIP request. The NPAC SMS Simulator sends out an M-SET intending to override the read-only attribute lnpNetworkName.
Severity	0
Severity Explanation	Does not impact ability to provide LNP service. LSMS may perform to verify error handling.
Prerequisites	A lnpNetwork instance exists.
Procedure	 NPAC SMS Simulator sends a syntactically valid M-SET request to the lnpNetwork object for the lnpNetworkName attribute. LSMS responds with a setListError error response.
Expected Results	The NPAC SMS Simulator receives a setListError error response. The attribute is not replaced.

14.3.4 MOC.NPAC.INV.ACT.InpNetwork

Purpose	This test case checks the LSMS's ability to respond to syntactically invalid CMIP request. The NPAC SMS Simulator sends out an MACTION request intending to perform the InpDownload action.
Severity	0
Severity Explanation	LSMS may perform to verify error handling.
Prerequisites	A lnpNetwork instance exists.
Procedure	NPAC SMS Simulator sends a syntactically valid lnpDownload

	M-ACTION request to the lnpNetwork object. 2. LSMS responds with a noSuchAction error response.
Expected Results	The NPAC SMS Simulator receives a noSuchAction error response. No action is performed on LSMS.

14.3.5 MOC.NPAC.INV.DEL.InpNetwork

Purpose	This test case checks the LSMS's ability to respond to syntactically invalid CMIP request. The NPAC SMS Simulator sends out an M-DELETE request intending to delete an instance.
Severity	0
Severity Explanation	Does not impact ability to provide LNP service. LSMS may perform to verify error handling.
Prerequisites	A lnpNetwork instance exists.
Procedure	 NPAC SMS Simulator sends a syntactically invalid M-DELETE request to the lnpNetwork object. LSMS responds with a processingFailure error response.
Expected Results	The NPAC SMS Simulator receives an error response with error type set to processingFailure. Thus no instance is removed from the LSMS.

14.4 subscriptionVersion

МО	subscriptionVersion
Purpose	This section contains capability test cases for the subscriptionVersion Managed Object Class pertaining to the NPAC SMS Simulator to Local SMS Interface. This capability test checks the existence and the basic validity of the LSMS's capability.
Prerequisite	A LSMS Network and Subscription Data Download association function is established. The LSMS has successfully completed MOC.NPAC.CAP.lnpSubscriptions test. A lnpSubscriptions instance exists on the Local SMS.

14.4.1 MOC.NPAC.CAP.OP.CRE.subscriptionVersion

Purpose	This test case checks the capability of the LSMS to correctly
*	respond to an M-CREATE request. The NPAC SMS Simulator
	intends to create a subscriptionVersion instance.
Severity	R
Severity Explanation	Direct impact on providing LNP service.
Prerequisites	
Procedure	1. NPAC SMS Simulator sends a valid M-CREATE request for a
	subscriptionVersion object.
	2. LSMS responds with a successful M-CREATE response.
Expected Results	The NPAC SMS Simulator receives a CreateResult and an instance
•	is created on Local SMS.

14.4.2 MOC.NPAC.CAP.OP.SET.subscriptionVersion

Purpose	This test case checks the capability of the subscriptionVersion managed object class to correctly respond to an M-SET request. The NPAC SMS Simulator intends to modify one attribute.
Severity	R
Severity Explanation	Direct impact on providing LNP service.
Prerequisites	MOC.NPAC.CAP.OP.CRE.subscriptionVersion
Procedure	NPAC SMS Simulator sends a valid M-SET request to a subscription Version object for a specified attribute. LSMS responds with a successful M-SET result.
Expected Results	The NPAC SMS Simulator receives a setResult. The attribute value of the subscription version is replaced with the given value.

14.4.3 MOC.NPAC.CAP.OP.GET.subscriptionVersion

Purpose	This test case checks the capability of the subscriptionVersion managed object class to correctly respond to an M-GET request. The NPAC SMS Simulator intends to GET all the attributes of the instance created above.
Severity	R
Severity Explanation	
Prerequisites	MOC.NPAC.CAP.OP.CRE.subscriptionVersion
Procedure	 NPAC SMS Simulator sends a valid M-GET request to a subscriptionVersion object for all attributes. LSMS responds with a successful M-GET result containing all attributes.
Expected Results	The NPAC SMS Simulator receives a getResult with all the attributes of the instance.

14.4.4 MOC.NPAC.CAP.OP.DEL.subscriptionVersion

	·
Purpose	This test case checks the capability of the LSMS to correctly respond to an M-DELETE request. The NPAC SMS Simulator
	intends to delete a subscription Version instance.
Severity	R
Severity Explanation	Direct impact on providing LNP service.
Prerequisites	MOC.NPAC.CAP.OP.CRE.subscriptionVersion
Procedure	 NPAC SMS Simulator sends a valid M-DELETE request to a subscription Version object. LSMS responds with a successful M-DELETE response.
Expected Results	The NPAC SMS Simulator receives a DeleteResult. The instance is removed from the LSMS.

14.4.5 MOC.NPAC.VAL.SET.SING.subscriptionVersion

Purpose	This behavior test case checks the capability of the
, , , , , , , , , , , , , , , , , , ,	subscriptionVersion managed object class to correctly respond to an
	M-SET request. The NPAC SMS Simulator intends to SET one

	attribute.
Severity	R
Severity Explanation	Direct impact on providing LNP service.
Prerequisites	MOC.NPAC.VAL.CRE.subscriptionVersion
Procedure	NPAC SMS Simulator sends a valid M-SET request to a subscriptionVersion object for a specified attribute. LSMS responds with a successful M-SET result.
Expected Results	The NPAC SMS Simulator receives a setResult, The attribute value of the subscriptionVersion is replaced by the new value.

14.4.6 MOC.NPAC.VAL.SET.MULT.subscriptionVersion

Purpose	This behavior test case checks the capability of the
_	subscriptionVersion managed object class to correctly respond to an
	M-SET request. The NPAC SMS Simulator intends to modify a
	group of attributes of the instance.
Severity	R
Severity Explanation	Direct impact on providing LNP service.
Prerequisites	MOC.NPAC.VAL.CRE.subscriptionVersion
Procedure	NPAC SMS Simulator sends a valid M-SET request to a
	subscriptionVersion object for the specified attributes.
	2. LSMS responds with a successful M-SET result.
Expected Results	The NPAC SMS Simulator receives a setResult. The attribute values
,	of the subscription Version are replaced by the new values.

14.4.7 MOC.NPAC.VAL.SET.SCOP.FILT.subscriptionVersion

Purpose	This test case checks the capability of the subscriptionVersion managed object class to correctly respond to a scoped and filtered M-SET request. The NPAC SMS Simulator will set one attribute, the subscriptionBillingId, for all instances of the subscriptionVersion which have an agreed upon subscriptionTN range. The scope begins at the base managed object lnpSubscriptions and is one level down.
Severity	R
Severity Explanation	Direct impact on providing LNP service.
Prerequisites	MOC.NPAC.VAL.CRE.subscriptionVersion
Procedure	NPAC SMS Simulator sends a valid M-SET request to a subscriptionVersion object for the subscriptionBillingId attribute with a filter set to equality for the subscriptionTN. LSMS responds with a successful M-SET result.
Expected Results	The NPAC SMS Simulator receives a setResult for all the modified instances.

14.4.8 MOC.NPAC.VAL.GET.SCOP.FILT.subscriptionVersion

Purpose	This test case checks the capability of the subscription Version to correctly respond to a scoped and filtered M-GET request. The
	NPAC SMS Simulator will request all attributes for an instance of

	the subscriptionVersion which has an agreed upon subscriptionTN
	range. The scope begins at the base managed object
	InpSubscriptions and is one level down.
Severity	R
Severity Explanation	Impacts the ability to provide LNP service.
Prerequisites	MOC.NPAC.VAL.SET.FILT.subscriptionVersion
Procedure	 NPAC SMS Simulator sends a valid M-GET request for a subscriptionVersion object for all the attributes with a filter set to equality for the subscriptionTN. LSMS responds with a successful M-GET result containing the attribute.
Expected Results	The NPAC SMS Simulator receives a getResult with the requested
Expected Results	attribute for all the instances that met the filtering criteria.

14.4.9 MOC.NPAC.VAL.DEL.SCOP.FILT.subscriptionVersion

Purpose	This behavior test case checks the capability of the subscriptionVersion to correctly respond to a scoped M-DELETE request. The NPAC SMS Simulator intends to delete instances satisfying the following criteria: Base Managed Object is lnpSubscriptions, Scope is level 1, filter is a TN range of an agreed upon range.
Severity	R
Severity Explanation	Impacts providing LNP service.
Prerequisites	MOC.NPAC.VAL.CRE.subscriptionVersion
Procedure	NPAC SMS Simulator sends a valid M-DELETE request for the subscriptionVersion objects with a filter set to a subscriptionTN range. LSMS responds with the successful M-DELETE responses.
Expected Results	The NPAC SMS Simulator receives a linked DeleteResult. The instances are removed from the LSMS.

14.4.10 MOC.NPAC.INV.CRE.subscriptionVersion

Purpose	The NPAC SMS Simulator sends out an M-CREATE CMIP request to LSMS with an invalid value set to an attribute. This tests the ability of the LSMS detecting the error and responding with the
	correct error message.
Severity	0
Severity Explanation	
Prerequisites	MOC.NPAC.CAP.OP.CRE.subscriptionVersion
Procedure	 NPAC SMS Simulator sends an invalid M-CREATE request for a subscriptionVersion. LSMS responds with an invalidAttributeValue error.
Expected Results	The NPAC SMS Simulator should receive an invalidAttributeValue error response. No instance is created on the LSMS site as a result of the error information.

14.4.11 MOC.NPAC.INV.SET.RO.subscriptionVersion

Purpose	Tests the ability of the LSMS to respond to an invalid M-SET request. The NPAC SMS Simulator will attempt to M-SET the readonly attribute subscriptionVersionId.
Severity	0
Severity Explanation	
Prerequisites	MOC.NPAC.CAP.OP.SET.subscriptionVersion
Procedure	 NPAC SMS Simulator sends an invalid M-SET request for a subscriptionVersion for the subscriptionVersionId attribute. LSMS responds with a setListError error response.
Expected Results	The NPAC SMS Simulator gets a setListError response. The attribute's value is not replaced by the set request on the LSMS.

14.4.12 MOC.NPAC.INV.SET.MULT.subscriptionVersion

Purpose	The NPAC SMS Simulator sends out a confirmed M-SET request intending to set multiple attributes values with one invalid attribute value in the list. This tests the ability of the LSMS to correctly respond to an invalid request.
Severity	0
Severity Explanation	
Prerequisites	MOC.NPAC.CAP.OP.SET.subscriptionVersion
Procedure	 NPAC SMS Simulator sends an invalid M-SET request for a subscriptionVersion for several specified attributes, one of which contains an invalid syntax. LSMS responds with a setListError error response.
Expected Results	The NPAC SMS Simulator gets a SetListError error response. The attribute's value is not replaced by the set request.

14.4.13 MOC.NPAC.INV.SET.SYN.subscriptionVersion

Purpose	The NPAC SMS Simulator sends out a confirmed M-SET request intending to set the attribute subscriptionISVM-SSN to invalid value. This tests the LSMS's ability of detecting the invalid syntax and responding with correct error message.
Severity	0
Severity Explanation	
Prerequisites	MOC.NPAC.CAP.OP.SET.subscriptionVersion
Procedure	 NPAC SMS Simulator sends an invalid M-SET request for a subscriptionVersion for the subscriptionISVM-SSN attribute, which contains invalid syntax. LSMS responds with a setListError error response.
Expected Results	The NPAC SMS Simulator gets a setListError error. The attribute value is not replaced by the new value.

14.4.14 MOC.NPAC.INV.SET.SCOP.subscriptionVersion

Purpose	The NPAC SMS Simulator sends out a confirmed M-SET request

	intending to set with an invalid scope parameter. This tests the ability of the LSMS to correctly respond to an invalid request.
Severity	R
Severity Explanation	
Prerequisites	MOC.NPAC.CAP.OP.SET.subscriptionVersion
Procedure	 NPAC SMS Simulator sends an invalid M-SET request for a subscriptionVersion with an incorrect parameter. LSMS responds with a setListError error response.
Expected Results	The NPAC SMS Simulator gets a processing Failure error. The attribute's value is not replaced by the set request.

14.4.15 MOC.NPAC.INV.DEL.SCOP.subscriptionVersion

Purpose	The NPAC SMS Simulator sends an M-DELETE request intending to delete an instance with invalid scope. This tests the LSMS's ability of preventing the object instances from being deleted incorrectly.
Severity	R
Severity Explanation	
Prerequisites	MOC.NPAC.CAP.OP.DEL.subscriptionVersion
Procedure	 NPAC SMS Simulator sends an invalid scoped M-DELETE request for a subscriptionVersion. LSMS responds with a processingFailure error response.
Expected Results	The NPAC SMS Simulator gets a processingFailure error response. No instance is removed from LSMS.

14.4.16 MOC.NPAC.BND.SET.MIN.subscriptionVersion

Purpose	This test case checks the LSMS's ability of responding to an M-SET request. The NPAC SMS Simulator sends an M-SET intending to
	set the attributes billingId and endUserLocationValue to values with
	string lengths of 1 each.
Severity	R
Severity Explanation	LSMS must perform to validate bounds check.
Prerequisites	MOC.NPAC.VAL.subscriptionVersion
Procedure	1. NPAC SMS Simulator sends a valid M-SET request setting the subscriptionBillingId and subscriptionEndUserLocationValue to values with a length of 1.
	2. LSMS responds a successful M-SET result.
Expected Results	The NPAC SMS Simulator receives a setResult and the attributes
•	are updated with the new values on the LSMS.

14.4.17 MOC.NPAC.BND.SET.MAX.subscriptionVersion

Purpose	This test case checks the LSMS's ability of responding to an M-SET request. The NPAC SMS Simulator sends out an M-SET intending
	to set the attributes billingId and endUserLocationValue to values with string lengths of 4 and 12 respectively.

Severity	R
Severity Explanation	LSMS must perform to validate bounds check.
Prerequisites	MOC.NPAC.VAL.subscriptionVersion
Procedure	NPAC SMS Simulator sends a valid M-SET request setting the subscriptionBillingId and subscriptionEndUserLocationValue to values with a length of 4 and 12 respectively, LSMS responds a successful M-SET result.
Expected Results	The NPAC SMS Simulator receives a setResult and the attributes of
_	the instance are set to the new values on the LSMS.

14.5 serviceProvNetwork

МО	serviceProvNetwork
Purpose	This section contains test cases for the lnpLocalSMS Managed Object Class pertaining to the NPAC SMS Simulator to Local SMS Interface, as part of the Managed Object Conformance testing of the Interoperability Test. This capability test package checks the LSMS's existence and basic validity of the specified capabilities.
Prerequisite	A Service Provider and Network Data Management association function is established. The LSMS has successfully completed the Stack-to-Stack Interoperabilty testing. The LSMS has successfully completed the MOC.NPAC.CAP.lnpLocalSMS tests.

14.5.1 MOC.NPAC.CAP.OP.CRE.serviceProvNetwork

Purpose	This test case checks the capability of the LSMS to correctly respond to an M-CREATE request. The NPAC SMS Simulator intends to create a serviceProvNetwork instance.
Severity	R
Severity Explanation	Direct impact on providing LNP service.
Prerequisites	A lnpLocalSMS instance exists on Local SMS.
Procedure	 NPAC SMS Simulator sends a valid M-CREATE request for a serviceProvNetwork object. LSMS responds with a successful M-CREATE response.
Expected Results	The NPAC SMS Simulator receives a CreateResult and an instance is created on Local SMS.

14.5.2 MOC.NPAC.CAP.OP.GET.serviceProvNetwork

Purpose	This test case checks the capability of the serviceProvNetwork to correctly respond to an M-GET request. The NPAC SMS Simulator intends to GET all the attributes of the instance created above.
Severity	0
Severity Explanation	Does not impact ability to provide LNP service. LSMS may perform to verify object.
Prerequisites	MOC.NPAC.CAP.OP.CRE.serviceProvNetwork
Procedure	 NPAC SMS Simulator sends a valid M-GET request for all attributes of the serviceProvNetwork object. LSMS responds with a successful M-GET result containing all

	the attributes.
Expected Results	The NPAC SMS Simulator receives a getResult with all the attributes of the instance.

14.5.3 MOC.NPAC.CAP.OP.SET.serviceProvNetwork

Purpose	This test case checks the capability of the serviceProvNetwork managed object class to correctly respond to an M-SET request. The NPAC SMS Simulator intends to SET one attribute, the serviceProvName.
Severity	R
Severity Explanation	Direct impact on providing LNP service.
Prerequisites	MOC.NPAC.CAP.OP.CRE.serviceProvNetwork
Procedure	 NPAC SMS Simulator sends a valid M-SET request for the serviceProvName attribute. LSMS responds with a successful M-SET result.
Expected Results	The NPAC SMS Simulator receives a setResult, the serviceProvName is replaced by the new value.

14.5.4 MOC.NPAC.CAP.OP.DEL.serviceProvNetwork

Purpose	This test case checks the capability of the LSMS to correctly respond to an M-DELETE request. The NPAC SMS Simulator
	intends to delete the serviceProvNetwork instance created above.
Severity	R
Severity Explanation	Direct impact on providing LNP service.
Prerequisites	MOC.NPAC.CAP.OP.CRE.serviceProvNetwork
Procedure	 NPAC SMS Simulator sends a valid M-DELETE request for the serviceProvNetwork object. LSMS responds with a successful M-DELETE response.
Expected Results	The NPAC SMS Simulator receives a DeleteResult. The instance is removed from the LSMS.

14.5.5 MOC.NPAC.INV.CRE.DUP.serviceProvNetwork

Purpose	This test case checks the LSMS's ability to respond to invalid CMIP request. The NPAC SMS Simulator sends out an M-CREATE intending to create a duplicate instance.
Severity	R
Severity Explanation	
Prerequisites	MOC.NPAC.CAP.OP.CRE.subscriptionVersion
Procedure	 NPAC SMS Simulator sends a valid M-GET request for the serviceProvNetwork object for the specified attributes. LSMS responds with a successful M-GET result containing the attributes.
Expected Results	The NPAC SMS Simulator receives a duplicateObjectInstance error response. No instance is created on LSMS as a result.

14.5.6 MOC.NPAC.INV.SET.RO.serviceProvNetwork

Purpose	This test case checks the LSMS's ability to respond to invalid CMIP request. The NPAC SMS Simulator sends out an M-SET intending to override the read-only attribute serviceProvID.
Severity	0
Severity Explanation	
Prerequisites	MOC.NPAC.CAP.OP.SET.subscriptionVersion
Procedure	 NPAC SMS Simulator sends an invalid M-SET request for the serviceProvID attribute. LSMS responds with a setListError error response.
Expected Results	The NPAC SMS Simulator receives a setListError error response. The attribute is not replaced.

14.5.7 MOC.NPAC.INV.SET.SYN.serviceProvNetwork

Purpose	This test case checks the LSMS's ability to respond to syntactically invalid CMIP requests. The NPAC SMS Simulator sends out an M-SET intending to set an invalid attribute value- the serviceProvName is set to length of 41.
Severity	0
Severity Explanation	
Prerequisites	MOC.NPAC.CAP.OP.SET.subscriptionVersion
Procedure	 NPAC SMS Simulator sends an invalid M-SET request for the serviceProvName attribute. LSMS responds with a processingFailure error response.
Expected Results	The NPAC SMS Simulator receives a processingFailure error response. The attribute is not replaced.

14.5.8 MOC.NPAC.INV.SET.serviceProvNetwork

Purpose	This test case checks the LSMS's ability to respond to a syntactically invalid CMIP requests. The NPAC SMS Simulator sends out an M-SET intending to set an invalid attribute value- the serviceProvName is set to length of 0.
Severity	0
Severity Explanation	LSMS may perform to verify error handling.
Prerequisites	MOC.NPAC.CAP.OP.SET.subscriptionVersion
Procedure	 NPAC SMS Simulator sends an invalid M-SET request for the serviceProvName attribute. LSMS responds with a processingFailure error response.
Expected Results	The NPAC SMS Simulator processing Failure error response. The attribute is not replaced.

14.5.9 MOC.NPAC.INV.GET.serviceProvNetwork

Purpose	This test case checks the LSMS's ability to respond to an invalid CMIP request. The NPAC SMS Simulator sends out an M-GET
	intending to get an invalid attribute value from the

	serviceProvNetwork object.
Severity	0
Severity Explanation	LSMS may perform to verify error handling.
Prerequisites	MOC.NPAC.CAP.OP.GET.subscriptionVersion
Procedure	 NPAC SMS Simulator sends an invalid M-GET request for the serviceProvNetwork object. LSMS responds with a getListError error response.
Expected Results	The NPAC SMS Simulator receives getListError error response.

14.5.10 MOC.NPAC.INV.DEL.serviceProvNetwork

Purpose	This test case checks the LSMS's ability to respond to a syntactically invalid CMIP request. The NPAC SMS Simulator sends out an M-DELETE request intending to delete a serviceProvNetwork object that does not exist.
Severity	R
Severity Explanation	
Prerequisites	MOC.NPAC.CAP.OP.DEL.subscriptionVersion
Procedure	 NPAC SMS Simulator sends a invalid M-DELETE request for the nonexistent serviceProvNetwork object. LSMS responds with a noSuchObjectInstance error response.
Expected Results	The NPAC SMS Simulator receives a noSuchObjectInstance error response. No instance is removed from the LSMS.

14.5.11 MOC.NPAC.INV.DEL.CO.serviceProvNetwork

Purpose	This test case checks the LSMS's ability to respond to a syntactically invalid CMIP request. The NPAC SMS Simulator sends out an M-DELETE request intending to delete a serviceProvNetwork object that contains serviceProvLRN and/or serviceProvNPA-NXX objects.
Severity	R
Severity Explanation	
Prerequisites	MOC.NPAC.CAP.OP.DEL.subscriptionVersion
Procedure	 NPAC SMS Simulator sends an invalid M-DELETE request for the serviceProvNetwork object objects contained in it. LSMS responds with a processingFailure error response.
Expected Results	The NPAC SMS Simulator receives a processingFailure error response. No instance is removed from the LSMS.

14.5.12 MOC.NPAC.BND.SET.MIN.serviceProvNetwork

Purpose	This test case checks the LSMS's ability of responding to a CMIP M-SET request. The NPAC SMS Simulator sends an M-SET intending to set the attribute ServiceProvName to a value of string length one.
Severity	R
Severity Explanation	LSMS must perform to verify bounds checking.

Prerequisites	MOC.NPAC.VAL.serviceProvNetwork
Procedure	NPAC SMS Simulator sends a valid M-SET request for the
	serviceProvName attribute.
	2. LSMS responds with successful M-SET result.
Expected Results	The NPAC SMS Simulator receives a setResult. The attribute is
•	updated with the new value.

14.5.13 MOC.NPAC.BND.SET.MAX.serviceProvNetwork

Purpose	This test case checks the LSMS's ability of responding to a CMIP M-SET request. The NPAC SMS Simulator sends out an M-SET intending to set the attribute ServiceProvName to a value of string length forty.
Severity	R
Severity Explanation	LSMS must perform to verify bounds checking.
Prerequisites	MOC.NPAC.VAL.serviceProvNetwork
Procedure	 NPAC SMS Simulator sends a valid M-SET request for the serviceProvName attribute. LSMS responds with successful M-SET result.
Expected Results	The NPAC SMS Simulator receives a setResult, and the serviceProvName is set to the new value.

14.6 <u>serviceProvNPA-NXX</u>

МО	serviceProvNPA-NXX
Purpose	This section contains test cases for the serviceProvNPA-NXX Managed Object Class pertaining to the NPAC SMS Simulator to Local SMS Interface, as part of the Managed Object Conformance testing of the interoperability test. This capability test verifies the existence and the basic validity of the LSMS's capability.
Prerequisite	A Service Provider and Network Data Management association function is established. The LSMS has successfully complete MOC.NPAC.CAP.serviceProvNetwork test. A serviceProvNetwork instance exists on Local SMS.

14.6.1 MOC.NPAC.CAP.OP.CRE.serviceProvNPA-NXX

Purpose	This test case checks the capability of the LSMS to correctly respond to an M-CREATE request. The NPAC SMS Simulator intends to create a serviceProvNPA-NXX instance.
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Severity	R
Severity Explanation	Direct impact on providing LNP service.
Prerequisites	MOC.NPAC.CAP.serviceProvNetwork
Procedure	 NPAC SMS Simulator sends a valid M-CREATE request for the serviceProvNPA-NXX object. LSMS responds with successful M-CREATE result.
Expected Results	The NPAC SMS Simulator receives a CreateResult and an instance is created on Local SMS.

14.6.2 MOC.NPAC.CAP.OP.DEL.serviceProvNPA-NXX

Purpose	This test case checks the capability of the LSMS to correctly respond to an M-DELETE request. The NPAC SMS Simulator intends to delete a serviceProvNPA-NXX instance.
Severity	R
Severity Explanation	Direct impact on providing LNP service.
Prerequisites	MOC.NPAC.CAP.OP.CRE.serviceProvNPA-NXX
Procedure	 NPAC SMS Simulator sends a valid M-DELETE request for the serviceProvNPA-NXX object. LSMS responds with successful M-DELETE result.
Expected Results	The NPAC SMS Simulator receives a DeleteResult. The instance is removed from the LSMS.

14.6.3 MOC.NPAC.INV.CRE.DUP.serviceProvNPA-NXX

Purpose	This test case checks the LSMS's ability to respond to a syntactically invalid CMIP request. The NPAC SMS Simulator sends out an M-CREATE intending to create a duplicate instance.
Severity	R
Severity Explanation	
Prerequisites	MOC.NPAC.CAP.OP.CRE.serviceProvNPA-NXX
Procedure	 NPAC SMS Simulator sends an invalid M-CREATE request for an existing serviceProvNPA-NXX object. LSMS responds with a duplicateManagedObjectInstance error response.
Expected Results	The NPAC SMS Simulator receives a duplicateManagedObjectInstance error response. No instance is created as a result.

14.6.4 MOC.NPAC.INV.SET.serviceProvNPA-NXX

Purpose	This test case checks the LSMS's ability to respond to a semantically invalid CMIP request. The NPAC SMS Simulator sends out an M-SET intending to override the read-only attribute.
Severity	0
Severity Explanation	Does not impact ability to provide LNP service. LSMS may perform to verify error handling.
Prerequisites	A serviceProvNPA-NXX instance exists.
Procedure	 NPAC SMS Simulator sends an invalid M-SET request for the specified attribute of the serviceProvNPA-NXX object. LSMS responds with a setListError error response.
Expected Results	The NPAC SMS Simulator receives a setListError error response. The attribute is not replaced.

14.6.5 MOC.NPAC.INV.DELserviceProvNPA-NXX

Purpose	This test case checks the LSMS's ability to respond to invalid CMIP
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	request. The NPAC SMS Simulator sends out an M-DELETE request intending to delete a non-existent instance.
Severity	R
Severity Explanation	
Prerequisites	MOC.NPAC.CAP.OP.DEL.serviceProvNPA-NXX
Procedure	 NPAC SMS Simulator sends an invalid M-DELETE request for the non-existent serviceProvNPA-NXX object. LSMS responds with a noSuchObjectInstance error response.
Expected Results	The NPAC SMS Simulator receives noSuchObjectInstance error response. No instance is removed from the LSMS.

14.7 serviceProvLRN

МО	serviceProvLRN
Purpose	This section contains test cases for the serviceProvLRN Managed Object Class pertaining to the NPAC SMS Simulator to Local SMS LSMS Interface, as part of the Managed Object Conformance testing of the interoperability test. This capability test package checks the LSMS's existence and basic validity of the specified capabilities.
Prerequisite	A Service Provider and Network Data Management association function is established. The LSMS has successfully completed the Stack-to-Stack Interoperabilty testing. The LSMS has successfully completed the MOC.NPAC.CAP.serviceProvNetwork test. There is a serviceProvNetwork object existing on Local SMS.

14.7.1 MOC.NPAC.CAP.OP.CRE.serviceProvLRN

Purpose	This test case checks the capability of the LSMS to correctly respond to an M-CREATE request. The NPAC SMS Simulator intends to create an instance.
Severity	R
Severity Explanation	Direct impact on providing LNP service.
Prerequisites	MOC.NPAC.CAP.serviceProvNetwork
Procedure	 NPAC SMS Simulator sends a valid M-CREATE request for a serviceProvLRN object. LSMS responds with a successful M-CREATE response.
Expected Results	The NPAC SMS Simulator receives a CreateResult and an instance is created on Local SMS.

14.7.2 MOC.NPAC.CAP.OP.DEL.serviceProvLRN

Purpose	This behavior test case checks the capability of the serviceProvLRN managed object class to correctly respond to an M-DELETE request. The NPAC SMS Simulator intends to delete an instance.
Severity	R
Severity Explanation	Direct impact on providing LNP service.

Prerequisites	MOC.NPAC.CAP.OP.CRE.serviceProvLRN
Procedure	1. NPAC SMS Simulator sends a valid M-DELETE request for
	the serviceProvLRN object.
	2. LSMS responds with a successful M-DELETE response.
Expected Results	The NPAC SMS Simulator receives a DeleteResult. The instance is
•	removed from the LSMS.

14.7.3 MOC.NPAC.INV.CRE.DUP.serviceProvLRN

Purpose	This test case checks the LSMS's ability to respond to an invalid CMIP request. The NPAC SMS Simulator sends out an M-CREATE intending to create a duplicate instance.
Severity	R
Severity Explanation	
Prerequisites	MOC.NPAC.CAP.OP.CRE.serviceProvLRN
Procedure	 NPAC SMS Simulator sends an invalid M-CREATE request for the existing serviceProvLRN object. LSMS responds with a duplicateMangedObjectInstance error response.
Expected Results	The NPAC SMS Simulator receives a duplicateManagedObjectInstance error response. No instance is created on LSMS as a result.

14.7.4 MOC.NPAC.INV.SET.serviceProvLRN

Purpose	This test case checks the LSMS's ability to respond to an invalid CMIP request. The NPAC SMS Simulator sends out an M-SET intending to override the read-only attribute serviceProvLRN-ID.
Severity	O
Severity Explanation	Does not impact ability to provide LNP service. LSMS may perform to verify error handling.
Prerequisites	A serviceProvLRN instance exists.
Procedure	 NPAC SMS Simulator sends an invalid M-SET request for the specified attribute of the serviceProvLRN object. LSMS responds with a setListErr error response.
Expected Results	The NPAC SMS Simulator receives a setListError error response. The attribute is not replaced.

14.7.5 MOC.NPAC.INV.DEL.serviceProvLRN

Purpose	This test case checks the LSMS's ability to respond to an invalid CMIP request. The NPAC SMS Simulator sends out an M-DELETE request intending to delete a nonexistent instance.
Severity	R
Severity Explanation	
Prerequisites	MOC.NPAC.CAP.OP.DEL.serviceProvLRN
Procedure	 NPAC SMS Simulator sends an invalid M-DELETE request for the nonexistent serviceProvLRN object. LSMS responds with a noSuchObjectInstance error response.

Expected Results	The NPAC SMS Simulator receives a noSuchObjectInstance error
	response. Thus no instance is removed from the LSMS.

14.8 <u>numberPoolBlock</u>

МО	numberPoolBlock	
Purpose	This section contains the test cases for the numberPoolBlock Managed Object Class pertaining to the NPAC SMS to LSMS Interface as part of the MOC testing of the NPAC SMS Simulator Interoperability Test.	
Prerequisite	 A LSMS Network and Subscription Data Download Management association function is established. InpNPAC-SMS and InpSubscription Managed Object Instances exist. 	

14.8.1 MOC.NPAC.CAP.OP.CRE.numberPoolBlock

Purpose	Verify the LSMS's ability to respond correctly to an M-CREATE request for the numberPoolBlock managed object instance.
Severity	C
Severity Explanation	Required if LSMS is supporting numberPoolBlock objects.
Prerequisites	N/A
Procedure	 NPAC SMS Simulator issues a valid M-CREATE request for all attributes of the numberPoolBlock object. LSMS responds with a successful M-CREATE result containing all attributes.
Expected Results	NPAC SMS Simulator receives a successful createResult and an instance is created on the LSMS.

14.8.2 MOC.NPAC.CAP.OP.SET.numberPoolBlock

Purpose	Verify the LSMS's ability to respond correctly to an M-SET request
_	for a numberPoolBlock managed object instance.
Severity	С
Severity Explanation	Required if LSMS is supporting numberPoolBlock objects.
Prerequisites	A numberPoolBlock exists on the NPAC SMS Simulator.
Procedure	 NPAC SMS Simulator issues a valid M-SET request for all attributes of the numberPoolBlock object. LSMS responds with a successful M-SET result
Expected Results	NPAC SMS Simulator receives a successful setResult and the attributes are updated on the LSMS.

14.8.3 MOC.NPAC.CAP.OP.GET.numberPoolBlock

Purpose	Verify the LSMS's ability to respond correctly to a scope and filtered M-GET request for all the attributes of the numberPoolBlock managed object instance. The filter contains an equality test for the numberPoolBlockNPA-NXX-X value.
Severity	C
Severity Explanation	Required if LSMS is supporting numberPoolBlock objects.
Prerequisites	A numberPoolBlock exists on the NPAC SMS Simulator.
Procedure	NPAC SMS Simulator issues a valid M-GET request for all

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	attributes of the numberPoolBlock object. 2. LSMS responds with a successful M-GET result containing all attributes.
Expected Results	NPAC SMS Simulator receives a getResult with all the attributes of
	the instance.

14.8.4 MOC.NPAC.CAP.OP.GET.MULTIPLE.numberPoolBlock

Purpose	Verify the LSMS's ability to respond correctly to a scope and filtered M-GET request for all the attributes of a range of
	numberPoolBlock managed object instances. The filter contains a range of numberPoolBlockNPA-NXX-X values.
Severity	С
Severity Explanation	Required if LSMS is supporting numberPoolBlock objects.
Prerequisites	Multiple numberPoolBlocks exist on the NPAC SMS Simulator.
Procedure	 NPAC SMS Simulator issues a valid M-GET request for all attributes of the numberPoolBlock object. LSMS responds with a series of linked M-GET replies containing all attributes.
Expected Results	NPAC SMS Simulator receives the linked replies with all the attributes of the instance.

14.8.5 MOC.NPAC.CAP.OP.DEL.numberPoolBlock

Purpose	Verify the LSMS's ability to respond correctly to an M-DELETE
	request for the numberPoolBlock managed object instance.
Severity	C
Severity Explanation	Required if LSMS is supporting numberPoolBlock objects.
Prerequisites	A numberPoolBlock exists on the NPAC SMS Simulator.
Procedure	NPAC SMS Simulator issues a valid M-DELETE for a numberPoolBlock object. LSMS responds with a successful M-DELETE result.
Expected Results	NPAC SMS Simulator receives a successful deleteResult and the instance is removed on the LSMS.

14.8.6 MOC.NPAC.CAP.OP.SET.SING.numberPoolBlock

Purpose	Verify the LSMS's ability to respond correctly to an M-SET request
	for one attribute of a numberPoolBlock managed object instance.
Severity	С
Severity Explanation	Required if LSMS is supporting numberPoolBlock objects.
Prerequisites	A numberPoolBlock exists on the NPAC SMS Simulator.
Procedure	 NPAC SMS Simulator issues a valid M-SET request for a single attribute of the numberPoolBlock object. LSMS responds with a successful M-SET result
Expected Results	NPAC SMS Simulator receives a successful setResult and the attribute is updated on the LSMS.

14.8.7 MOC.NPAC.CAP.OP.SET.MULT.numberPoolBlock

Purpose	Verify the LSMS's ability to respond correctly to an M-SET request
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	for multiple attributes of a numberPoolBlock managed object
	instance.
Severity	C
Severity Explanation	Required if LSMS is supporting numberPoolBlock objects.
Prerequisites	A numberPoolBlock exists on the NPAC SMS Simulator.
Procedure	 NPAC SMS Simulator issues a valid M-SET request for several attributes of the numberPoolBlock object. LSMS responds with a successful M-SET result.
Expected Results	NPAC SMS Simulator receives a successful setResult and the attributes are updated on the LSMS.

14.8.8 MOC.NPAC.INV.CRE.numberPoolBlock

Purpose	Verify the LSMS's ability to respond correctly to an M-CREATE request that has an invalid attribute for a numberPoolBlock managed object instance.
Severity	0
Severity Explanation	Required if LSMS is supporting numberPoolBlock objects.
Prerequisites	A numberPoolBlock exists on the NPAC SMS Simulator.
Procedure	 NPAC SMS Simulator issues an M-CREATE with an invalid NPA-NXX-X for the numberPoolBlock object. LSMS responds with an invalidAttributeValue error or other appropriate error response.
Expected Results	NPAC SMS Simulator receives the error response and no objects are created on the LSMS.

14.8.9 MOC.NPAC.INV.SET.numberPoolBlock

Purpose	Verify the LSMS's ability to respond correctly to an M-SET request that has an invalid attribute for a numberPoolBlock managed object instance.
Severity	0
Severity Explanation	Required if LSMS is supporting numberPoolBlock objects.
Prerequisites	A numberPoolBlock exists on the NPAC SMS Simulator.
Procedure	NPAC SMS Simulator issues an M-SET for the read-only numberPoolBlockId attribute of the numberPoolBlock object. LSMS responds with setListError error or other appropriate error response.
Expected Results	NPAC SMS Simulator receives the error response and no attributes are updated on the LSMS.

14.8.10 MOC.NPAC.INV.DEL.numberPoolBlock

Purpose	Verify the LSMS's ability to respond correctly to an M-DELETE request for a numberPoolBlock managed object instance that does not exist.
Severity	C
Severity Explanation	Required if LSMS is supporting numberPoolBlock objects.
Prerequisites	N/A
Procedure	NPAC SMS Simulator issues an M-DELETE a numberPoolBlock object that does not exist on the LSMS.

	2. LSMS responds with a noSuchObject error or other appropriate
	error response.
Expected Results	NPAC SMS Simulator receives the error response and no objects
•	are deleted on the LSMS.

14.9 serviceProvNPA-NXX-X

МО	serviceProvNPA-NXX-X	
Purpose	This section contains test cases for the serviceProvNPA-NXX-X Managed Object Class pertaining to the NPAC SMS manager to LSMS Interface, as part of the MO Conformance testing of the interoperability test. This capability test package checks the LSMS existence and basic validity of the specified capabilities. This object is used to support network data download to	
	the LSMS.	
Prerequisite	A NPAC Management association function is established.	
	• The LSMS has successfully completed the S2S Interoperability testing.	
	A serviceProvNetwork exists on the LSMS.	

14.9.1 MOC.NPAC.CAP.OP.CRE.serviceProvNPA-NXX-X

Purpose	Verify the LSMS's ability to respond correctly to an M-CREATE request for the serviceProvNPA-NXX-X managed object instance.
Severity	С
Severity Explanation	Required if the LSMS is to supports network data download and the serviceProvNPA-NXX-X managed object.
Prerequisites	A serviceProvNetwork instance exists on the LSMS.
Procedure	NPAC SMS Simulator sends a serviceProvNPA-NXX-X M-CREATE request.
	2. LSMS responds successfully to the M-CREATE.
Expected Results	NPAC SMS Simulator sends a valid M-CREATE request and
•	receives the LSMS M-CREATE response indicating successful
	creation of the serviceProvNetwork.

14.9.2 MOC.NPAC.CAP.OP.SET.serviceProvNPA-NXX-X

Purpose	Verify the LSMS's ability to respond correctly to an M-SET request for the serviceProvNPA-NXX-X managed object instance.
Severity	C
Severity Explanation	Required if the LSMS is to supports network data download and the serviceProvNPA-NXX-X managed object.
Prerequisites	A serviceProvNetwork instance exists on the SOA.
Procedure	NPAC SMS Simulator sends a serviceProvNPA-NXX-X M-SET request. LSMS responds successfully to the M-SET.
Expected Results	NPAC SMS Simulator sends a valid M-SET request and receives the LSMS M-SET response indicating successful modification of the serviceProvNetwork.

14.9.3 MOC.NPAC.CAP.OP.DEL.serviceProvNPA-NXX-X

Purpose Verify the LSMS's ability to support the M-DELETE request for the
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	serviceProvNPA-NXX-X managed object class.
Severity	С
Severity Explanation	Test case must be executed if the LSMS supports network data download and the serviceProvNPA-NXX-X managed object.
Prerequisites	A serviceProvNPA-NXX-X exists on the LSMS.
Procedure	 NPAC SMS Simulator sends an M-DELETE request for the serviceProvNPA-NXX-X managed object. LSMS responds successfully to the M-DELETE.
Expected Results	NPAC SMS Simulator sends an M-DELETE request to the LSMS and the LSMS responds successfully.

14.9.4 MOC.NPAC.INV.CRE.DUP.serviceProvNPA-NXX-X

Purpose	Verify the LSMS's ability to respond correctly to a duplicate M-CREATE request for the serviceProvNetwork managed object.
Severity	C
Severity Explanation	Test case must be executed if the LSMS supports network data download and the serviceProvNPA-NXX-X managed object.
Prerequisites	A serviceProvNPA-NXX-X instance exists on the LSMS
Procedure	NPAC SMS Simulator sends a serviceProvNPA-NXX-X M-CREATE request for a serviceProvNetwork managed object that already exists. LSMS responds to the M-CREATE.
Expected Results	NPAC SMS Simulator sends an M-CREATE request for an existing serviceProvNPA-NXX-X managed object and receives the LSMS M-CREATE error response of duplicateObjectInstanceEr.

14.9.5 MOC.NPAC.INV.SET.serviceProvNPA-NXX-X

Purpose	Verify the LSMS's ability to handle correctly an M-SET request for a syntactically invalid CMIP request for the read-only attribute serviceProvNPA-NXX-X-ID.
Severity	0
Severity Explanation	Does not impact ability to provide LNP service.
Prerequisites	A numberPoolBlock exists on the NPAC SMS Simulator.
Procedure	NPAC SMS Simulator sends an M-SET request for a serviceProvNPA-NXX-X-ID. LSMS responds with an M-SET error.
Expected Results	NPAC SMS Simulator receives an error response with the error type set to setListErrorEr.

14.9.6 MOC.NPAC.INV.DEL.serviceProvNPA-NXX-X

Purpose	Verify the LSMS's ability to handle correctly an invalid CMIP M-DELETE request. NPAC SMS Simulator sends a delete for the serviceProvNPA-NXX-X managed object that does not exist.
Severity	С
Severity Explanation	Required if the LSMS supports network data download and the serviceProvNPA-NXX-X managed object.
Prerequisites	A numberPoolBlock exists on the NPAC SMS Simulator.

Procedure	 NPAC SMS Simulator sends M-DELETE request for the serviceProvNPA-NXX-X managed object. LSMS responds with an M-DELETE error.
Expected Results	NPAC SMS Simulator receives the error response with error type set to noSuchObjectInstanceEr.

15 Association Management Test Cases

15.1 Test Cases

15.1.1 AMG.SOA.ASSOC.SAME and AMG.LSMS.ASSOC.SAME

Purpose	To verify that the SOA/LSMS retries the same NPAC SMS Simulator address after the initial association request is rejected with reason as RETRY-SAME-HOST.
Severity	R
Severity Explanation	Direct impact on ability to provide service.
Prerequisites	 No association established between the SOA/LSMS and NPAC SMS Simulator. System clocks synchronized to within 5 minutes. Access Control attribute set according to Chapter 5 of NPAC SMS Interoperable Interface Specification.
Procedure	 SOA/LSMS issues association request (AARQ). NPAC SMS Simulator accepts association indication and issues an association response with errorCode = retry-same-host. SOA/LSMS receives response and issues association request (AARQ) with same address as before. NPAC SMS Simulator accepts association indication and sends association response. SOA/LSMS receives association confirmation.
Expected Results	Association is successfully established with NPAC SMS Simulator the second time.

15.1.2 AMG.SOA.ASSOC.OTHER and AMG.LSMS.ASSOC.OTHER

Purpose	To verify that the SOA/LSMS retries the backup NPAC SMS
•	Simulator address after the initial association request is rejected
	with reason as RETRY-OTHER-HOST.
Severity	R
Severity Explanation	Direct impact on ability to provide service.
Prerequisites	No association established between the SOA/LSMS and NPAC SMS Simulator.
	System clocks synchronized to within 5 minutes.
	Access Control attribute set according to Chapter 5 of NPAC
	SMS Interoperable Interface Specification.
Procedure	SOA/LSMS issues association request.
	2. NPAC SMS Simulator accepts association indication and issues
	an association response with errorCode = retry-other-host.
	3. SOA/LSMS issues association request to backup address of the
	NPAC SMS Simulator.
	4. NPAC SMS Simulator accepts association indication and sends
	association response.
	5. SOA/LSMS receives association confirmation.
Expected Results	Association is successfully established with backup NPAC SMS

Simulator.

15.1.3 AMG.SOA.REQTMOT and AMG.LSMS.REQTMOT

Purpose	To verify that the SOA/LSMS times out a request after the configured retry interval when the NPAC SMS Simulator did not respond.
Severity	0
Severity Explanation	Current NPAC SMS guidelines do not suggest any retries.
Prerequisites	 An association is established between the SOA/LSMS and NPAC SMS Simulator. Systems clocks are synchronized. The MIB is populated with all the instance of the information model.
Procedure	 SOA/LSMS issues a CMIP request (M-GET on all attribute of a managed object instance). NPAC SMS Simulator does not respond to request. SOA/LSMS times out the request and reissues it after the configured retry interval. NPAC SMS Simulator accepts and responds to second request. SOA/LSMS receives response.
Expected Results	First request times out. Second request is successful.

15.1.4 AMG.SOA.RETRY.CMIP and AMG.LSMS.RETRY.CMIP

Purpose	To verify that the SOA/LSMS retries a CMIP request for 3 times
*	with a configured retry interval timeout between tries when the
	NPAC SMS Simulator does not respond. After the 3 rd attempt, the
	SOA/LSMS aborts the association.
Severity	0
Severity Explanation	Current NPAC SMS guidelines do not suggest any retries.
Prerequisites	 An association is established between the SOA/LSMS and
•	NPAC SMS Simulator.
	Systems clocks are synchronized.
	• The MIB is populated with all the instance of the information
	model.
Procedure	1. SOA/LSMS issues a CMIP request (M-GET on all attribute of
	an managed object instance).
	2. NPAC SMS Simulator does not respond to request.
	3. SOA/LSMS times out the request and reissues it after the
	configured retry interval.
	4. NPAC SMS Simulator does not respond to request.
	5. SOA/LSMS times out the request and reissues it after the configured retry interval.
	6. NPAC SMS Simulator does not respond to request.
	7. The SOA/LSMS aborts the association and establishes a new
	one on which the request is tried again.
	8. SOA/LSMS receives response.
Expected Results	SOA/LSMS successfully recovers from repeated request timeouts
	and the association abort.

15.1.5 AMG.SOA.RETRY.ASSOC and AMG.LSMS.RETRY.ASSOC

Durnoso	To verify that the SOA/LSMS times out and retries when the NPAC
Purpose	
	SMS Simulator does not respond to an association request.
Severity	0
Severity Explanation	No requirements exist on how to troubleshoot an NPAC SMS connection. However, it is recommended that if an association cannot be established with the primary, the secondary NPAC SMS be attempted. If the secondary NPAC SMS replies with "retry-otherhost", then proceed to retry and troubleshoot the primary
	connection.
Prerequisites	 An association is not established between the SOA/LSMS and NPAC SMS Simulator. Systems clocks are synchronized.
Procedure	 SOA/LSMS issues an A-associate request. NPAC SMS Simulator does not respond to request. SOA/LSMS times out the request after a configurable number of minutes and one of the following things has to be done: Automatically retries primary NPAC. Automatically retries Backup NPAC. Repeat the previous step until an association is established.
Expected Results	SOA/LSMS recover from association request timeout.

15.1.6 AMG.SOA.SECVIOL and AMG.LSMS.SECVIOL

Purpose	To verify that the SOA/LSMS detects and recovers from security violations.
Severity	R
Severity Explanation	Direct impact on ability to provide service.
Prerequisites	 An association is established between the SOA/LSMS and NPAC SMS Simulator. Systems clocks are synchronized. The MIB is populated with all the instance of the information model.
Procedure	 NPAC SMS Simulator issues an M-EVENT-REPORT with an invalid signature on a pre-established and active association. SOA/LSMS detects the security breach and aborts the association with no reason given. SOA/LSMS proceeds to re-establish an association with the NPAC SMS Simulator using either the same key or a different key. NPAC SMS Simulator accepts the new association and normal processing resumes.
Expected Results	Compromised association is aborted and a new association is established with the same key or a different key.

15.1.7 AMG.SOA.LOSS and AMG.LSMS.LOSS

Purpose To verify that the SOA/LSMS detects and recovers from loss of association.	
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Severity	R
Severity Explanation	Direct impact on ability to provide service.
Prerequisites	 An association is established between the SOA/LSMS and NPAC SMS Simulator. Systems clocks are synchronized.
Procedure	An established and active association between the NPAC SMS Simulator and SOA/LSM is manually torn down (i.e. temporarily disconnect the network connection). SOA/LSMS detects the loss of association. SOA/LSMS proceeds to re-establish an association with the NPAC SMS Simulator. NPAC SMS Simulator accepts new association and processing is resumed normally.
Expected Results	Lost association is detected and a new association is established.

15.1.8 AMG.SOA.DOWN and AMG.LSMS.DOWN

Purpose	To verify that the SOA/LSMS detects and recovers from NPAC SMS Simulator going down.
Severity	R
Severity Explanation	Direct impact on ability to provide service.
Prerequisites	 An association is established between the SOA/LSMS and NPAC SMS Simulator. Systems clocks are synchronized.
Procedure	 The NPAC SMS Simulator is manually brought down. SOA/LSMS detects the NPAC SMS Simulator is down and proceeds to re-establish an association with the NPAC SMS Simulator. NPAC SMS Simulator accepts the association and normal processing is resumed.
Expected Results	NPAC SMS Simulator failure is detected and an association is reestablished.

16 App-to-App Test Cases

16.1 Audit Test Cases

МО	Audit Test Cases
Purpose	This section contains the test cases for the subscriptionAudit Managed Object Class pertaining to the Application processes of the SOA and LSMS to NPAC SMS Simulator Interface, as part of the Application to Application testing of the NPAC SMS Interoperability Test.
Prerequisite	All Managed ObjectConformance testing has been completed. Several subscriptionVersion (testing Service Provider and other Service Provider) have been created and network data has been downloaded into the testing LSMS.

16.1.1 A2A.LSMS.VAL.MISSVER.subscriptionAudit

Purpose	To test the LSMS's ability to handle an NPAC SMS Simulator initiated subscription version audit for a missing version in the LSMS.
Severity	R
Severity Explanation	Direct impact on ability to provide service.
Prerequisites	A subscription version exists on the NPAC SMS Simulator, but not the LSMS system.
Procedure	 NPAC SMS Simulator creates an audit for a subscription version that is currently missing on the LSMS. NPAC SMS issues the M-GET request to the LSMS for the subscription Version object. LSMS returns an empty M-GET result indicating the object was not found. NPAC SMS performs the comparisons and issues the M-CREATE request to the LSMS for the missing subscription Version. LSMS responds with a successful M-CREATE response.
Expected Results	LSMS successfully handles the M-GET and M-CREATE requests.

16.1.2 A2A.LSMS.VAL.OBSVER.subscriptionAudit

Purpose	To test the LSMS's ability to handle a NPAC SMS Simulator initiated subscription version audit, for an obsolete subscription version on the LSMS.
Severity	R
Severity Explanation	Direct impact on ability to provide service.
Prerequisites	A subscription version exists on the LSMS, but not the NPAC SMS Simulator system.
Procedure	 NPAC SMS Simulator creates an audit for a subscription version that currently exists only on the LSMS. NPAC SMS issues the M-GET request to the LSMS for the subscriptionVersion object.

	 LSMS returns the M-GET result containing all the attributes. NPAC SMS performs the comparisons and issues the M-DELETE request to the LSMS for the missing subscriptionVersion. LSMS responds with a successful M-DELETE response.
Expected Results	LSMS successfully handle the NPAC SMS Simulator M-GET and M-DELETE.

16.1.3 A2A.LSMS.VAL.ERRVER.subscriptionAudit

Purpose	To test the LSMS's ability to handle a NPAC SMS Simulator initiated subscription version audit, for a version with a discrepancy in one attribute value on the LSMS.
Severity	R
Severity Explanation	Direct impact on ability to provide service.
Prerequisites	A subscription version exists on the NPAC SMS that has a different attribute value than one on the LSMS.
Procedure	 NPAC SMS Simulator creates an audit for a subscription version that currently exists only on the LSMS. NPAC SMS issues the M-GET request to the LSMS for the subscriptionVersion object. LSMS returns the M-GET result containing all the attributes. NPAC SMS performs the comparisons and issues the M-SET request to the LSMS for the subscriptionVersion data. LSMS responds with a successful M-SET result.
Expected Results	LSMS successfully handle the NPAC SMS Simulator initiated M-GET and M-SET.

16.1.4 A2A.SOA.VAL.NODIS.TN.subscriptionAudit

Purpose	To test the SOA's ability to initiate a subscription version audit on a single TN, for multiple attributes, and handle the subsequent NPAC SMS Simulator responses with no discrepancy found.
Severity	C
Severity Explanation	Does not impact ability to provide LNP service. If Audits are implemented this test case must be run.
Prerequisites	
Procedure	 SOA issues a subscriptionAudit object creation request to the NPAC SMS Simulator, specifying a single TN and multiple attributes. NPAC SMS Simulator responds with a successful M-CREATE response. NPAC SMS Simulator issues the objectCreation notification to the SOA. SOA confirms the M-EVENT-REPORT. NPAC SMS Simulator performs the audit to the LSMSs and finds no discrepancies. NPAC SMS Simulator issues a subscriptionAuditResults

	notification. 7. SOA confirms the M-EVENT-REPORT. 8. NPAC SMS Simulator issues the objectDeletion notification for the subscriptionAudit object. 9. SOA confirms the M-EVENT-REPORT. 10. NPAC SMS Simulator issues an M-DELETE request and response to itself for the subscriptionAudit object. (This step may not happen immediately depending on the implementation. The production NPAC SMS issues this delete during a future housekeeping period.)
Expected Results	SOA successfully initiates the audit and handles the subsequent interaction from NPAC SMS Simulator for this transaction.

$16.1.5\,A2A.SOA.VAL.NODIS.TNRNG.subscription Audit$

Purpose	To test the SOA's ability to initiate a subscription version audit on a range of TNs, for a single attribute, and handle the subsequent NPAC SMS Simulator responses with no discrepancy found.
Severity	0
Severity Explanation	No impact on ability to provide service. If Audits are implemented, this functionality may be supported by auditing a single TN at a time.
Prerequisites	
Procedure	 SOA issues subscriptionAudit object creation request to NPAC SMS Simulator, specifying a range of TNs and a single attribute. NPAC SMS Simulator responds with a successful M-CREATE response. NPAC SMS Simulator issues the objectCreation notification to the SOA. SOA confirms the M-EVENT-REPORT. NPAC SMS Simulator performs the audit to the LSMSs and finds no discrepancies. NPAC SMS Simulator issues a subscriptionAuditResults notification. SOA confirms the M-EVENT-REPORT. NPAC SMS Simulator issues the objectDeletion notification for the subscriptionAudit object. SOA confirms the M-EVENT-REPORT. NPAC SMS Simulator issues an M-DELETE request and response to itself for the subscriptionAudit object. (This step may not happen immediately depending on the implementation. The production NPAC SMS issues this delete during a future housekeeping period.)
Expected Results	SOA successfully initiate the audit and handle the subsequent interaction from NPAC SMS Simulator of this transaction.

16.1.6 A2A.SOA.VAL.NODIS.ACTRNG.subscriptionAudit

Purpose Severity Severity Explanation Prerequisites	To test the SOA's ability to initiate a subscription version audit for a range of TNs with a subscriptionAuditTN-ActivationRange, for a single attribute, and handle the subsequent NPAC SMS Simulator responses with no discrepancy found. O No impact on ability to provide service. If Audits are implemented, functionality may be supported by A2A.SOA.VAL.NODIS.TN.subscriptionAudit or A2A.SOA.VAL.NODIS.TNRNG.subscriptionAudit.
Procedure	 SOA issues subscriptionAudit object creation request to NPAC SMS Simulator, specifying a range of TNs, a single attribute and an activation range. NPAC SMS Simulator responds with a successful M-CREATE response. NPAC SMS Simulator issues the objectCreation notification to the SOA. SOA confirms the M-EVENT-REPORT. NPAC SMS Simulator performs the audit to the LSMSs and finds no discrepancies. NPAC SMS Simulator issues a subscriptionAuditResults notification. SOA confirms the M-EVENT-REPORT. NPAC SMS Simulator issues the objectDeletion notification for the subscriptionAudit object. SOA confirms the M-EVENT-REPORT. NPAC SMS Simulator issues an M-DELETE request and response to itself for the subscriptionAudit object. (This step may not happen immediately depending on the implementation. The production NPAC SMS issues this delete during a future housekeeping period.)
Expected Results	SOA successfully initiates the audit and handles the subsequent interaction from the NPAC SMS Simulator for this transaction.

16.1.7 A2A.SOA.VAL.WITHDIS.TN.subscriptionAudit

Purposo	To test the SOA's ability to initiate a subscription version audit on a
Purpose	
	single TN, for all auditable attributes, and handle the subsequent
	discrepancy notifications.
Severity	R
Severity Explanation	No impact on ability to provide service. If Audits are implemented,
, , , , , , , , , , , , , , , , , , ,	functionality may be supported by auditing a single TN at a time.
Prerequisites	A2A.SOA.VAL.NODIS.TN.subscriptionAudit
Procedure	SOA issues subscriptionAudit object creation request to NPAC
	SMS Simulator, specifying a TN and all auditable attributes.
	2. NPAC SMS Simulator responds with a successful M-CREATE
	response.
	3. NPAC SMS Simulator issues the objectCreation notification to
	the SOA.
	4. SOA confirms the M-EVENT-REPORT.

	5 NDAC SMS Simulator performs the audit to the I SMSs and
	5. NPAC SMS Simulator performs the audit to the LSMSs and
	finds the discrepancies.
	6. For each discrepant subscriptionVersion, the NPAC SMS
	Simulator issues a subscriptionAuditResults notification.
	 SOA confirms each subscriptionAuditResults notification received.
	8. NPAC SMS Simulator issues a subscriptionAuditResults
	notification.
	9. SOA confirms the M-EVENT-REPORT.
	10. NPAC SMS Simulator issues the objectDeletion notification for
	the subscriptionAudit object.
	11. SOA confirms the M-EVENT-REPORT.
	12. NPAC SMS Simulator issues an M-DELETE request and
	response to itself for the subscription Audit object. (This step
	may not happen immediately depending on the implementation.
	The production NPAC SMS issues this delete during a future
	housekeeping period.)
	nousekeeping period.)
E and al Dan III	COA
Expected Results	SOA successfully initiate the audit and handles the subsequent
	interaction from NPAC SMS Simulator for this transaction.

$16.1.8\,A2A.SOA.VAL.WITHDIS.TNRNG.subscription Audit$

	·
Purpose	To test the SOA's ability to initiate a subscription version audit on a TN range, for a single attribute, and handle the subsequent
	discrepancy notifications.
Severity	C
Severity Explanation	No impact on ability to provide service. If Audits are implemented, functionality may be supported by auditing a single TN at a time.
Prerequisites	A2A.SOA.VAL.NODIS.TNRNG.subscriptionAudit
Procedure	SOA issues subscriptionAudit object creation request to NPAC SMS Simulator, specifying a range of TNs and a single attribute.
	2. NPAC SMS Simulator responds with a successful M-CREATE response.
	3. NPAC SMS Simulator issues the objectCreation notification to the SOA.
	4. SOA confirms the M-EVENT-REPORT.
	5. NPAC SMS Simulator performs the audit to the LSMSs and finds the discrepant subscription Versions.
	6. For each discrepant subscription version, the NPAC SMS
	Simulator issues a subscription Audit Results notification.
	7. SOA confirms each subscriptionAuditResults notification received.
	NPAC SMS Simulator issues a subscriptionAuditResults notification.
	9. SOA confirms the M-EVENT-REPORT.
	10. NPAC SMS Simulator issues the objectDeletion notification for the subscriptionAudit object.
	11. SOA confirms the M-EVENT-REPORT.
	12. NPAC SMS Simulator issues an M-DELETE request and response to itself for the subscriptionAudit object. (This step
	may not happen immediately depending on the implementation. The production NPAC SMS issues this delete during a future

	housekeeping period.)
Expected Results	SOA successfully initiates the audit and handles the subsequent interaction from NPAC SMS Simulator for this transaction.

16.1.9 A2A.SOA.VAL.WITHDIS.ACTRNG.subscriptionAudit

Purpose Severity Severity Explanation Prerequisites	To test the SOA's ability to initiate a subscription version audit for a range of TNs with an activation range, for multiple attributes, and handle the subsequent NPAC SMS Simulator discrepancy responses. O No impact on ability to provide service. If Audits are implemented, functionality may be implemented by A2A.SOA.VAL.WITHDIS.TN.subscriptionAudit or A2A.SOA.VAL.WITHDIS.TNRNG.subscriptionAudit.
Procedure	 SOA issues subscriptionAudit object creation request to NPAC SMS Simulator, specifying a range of TNs, multiple attributes and an activation range. NPAC SMS Simulator responds with a successful M-CREATE response. NPAC SMS Simulator issues the objectCreation notification to the SOA. SOA confirms the M-EVENT-REPORT. NPAC SMS Simulator performs the audit to the LSMSs and finds the discrepant subscriptionVersions. For each discrepant subscriptionVersion, the NPAC SMS Simulator issues a subscriptionAuditResults notification. SOA confirms each subscriptionAuditResults notification received. NPAC SMS Simulator issues a subscriptionAuditResults notification. SOA confirms the M-EVENT-REPORT. NPAC SMS Simulator issues the objectDeletion notification for the subscriptionAudit object. SOA confirms the M-EVENT-REPORT. NPAC SMS Simulator issues an M-DELETE request and response to itself for the subscriptionAudit object. (This step may not happen immediately depending on the implementation. The production NPAC SMS issues this delete during a future housekeeping period.)
Expected Results	SOA successfully initiates the audit and handles the subsequent interaction from NPAC SMS Simulator for this transaction.

16.1.10 A2A.SOA.VAL.NPACCNCLD.subscriptionAudit

Purpose	To test the SOA's ability to initiate and handle a subscription
,	version audit which is subsequently canceled by the NPAC SMS

	Simulator.
Severity	С
Severity Explanation	No impact on ability to provide service. Required if audit functionality is implemented.
Prerequisites	A2A.SOA.VAL.NODIS.TN.subscriptionAudit
Procedure	 SOA issues subscriptionAudit object creation request to NPAC SMS Simulator. NPAC SMS Simulator responds with a successful M-CREATE response. NPAC SMS Simulator issues the objectCreation notification to the SOA. SOA confirms the M-EVENT-REPORT. NPAC SMS Simulator Personnel cancel the subscriptionAudit. NPAC SMS Simulator issues the objectDeletion notification for the subscriptionAudit object. SOA confirms the M-EVENT-REPORT. NPAC SMS Simulator issues an M-DELETE request and response to itself for the subscriptionAudit object. (This step may not happen immediately depending on the implementation. The production NPAC SMS issues this delete during a future housekeeping period.)
Expected Results	SOA successfully initiates the audit and handles the subsequent interaction from the NPAC SMS Simulator.

16.1.11 A2A.SOA.INV.CRENOT.TIMOUT.subscriptionAudit

Purpose Severity Severity Explanation	To test the SOA's ability to initiate a subscriptionAudit and handle the condition that the subscriptionAudit object creation notification is not received. O No impact on ability to provide service. SOA may perform to verify
	error handling.
Prerequisites	
Procedure	 SOA issues subscriptionAudit object creation request to NPAC SMS Simulator. NPAC SMS Simulator responds with a successful M-CREATE response. NPAC SMS Simulator does NOT issue the objectCreation notification to the SOA. SOA re-issues subscriptionAudit object creation request to NPAC SMS Simulator. NPAC SMS Simulator responds with a duplicateManagedObjectInstance error response. SOA proceeds to successfully handle normal audit processing.
Expected Results	The SOA detects the missing notification, re-issues the M-CREATE request, and handles the error response. Audit proceeds normally after second create.

16.1.12 A2A.SOA.VAL.WITHDIS.WSMSC.RANGE.subscriptionAudit

Purpose	To test the SOA's ability to initiate a subscription version audit for a
	range of TNs, and handles the subsequent NPAC SMS Simulator
	discrepancy responses for WSMSC data.
Severity	C
Severity Explanation	This test case must be executed if the SOA supports TN range audits
	and will be supporting WSMSC data.
Prerequisites	Active subscriptionVersionNPAC objects with WSMSC data
7	discrepancies exist on the NPAC SMS simulator.
Procedure	1. SOA issues subscriptionAudit object creation request to NPAC
	SMS Simulator, specifying a range of TNs.
	2. NPAC SMS Simulator creates the subscriptionAudit object
	locally and responds to the M-CREATE.
	3. SOA confirms the objectCreation.
	4. NPAC SMS Simulator emulates performing the audit and issues
	a subscriptionAuditDiscrepancyRpt.
	5. SOA confirms the subscriptionAuditDiscrepancyRpt
	notification.
	6. NPAC SMS Simulator completes the audit and issues the
	subscriptionAuditResults notification.
	7. SOA handles the subscriptionAuditResults notification and
	responds with a confirmation.
	8. NPAC SMS Simulator issues the objectDeletion notification for
	the subscriptionAudit object.
	9. SOA handles the objectDeletion notification and responds with
	a confirmation.
Expected Results	SOA successfully initiates the audit and handles the subsequent
,	interaction from NPAC SMS Simulator of this transaction.

16.1.13 A2A.SOA.VAL.WITHDIS.WSMSC.SINGLE.subscriptionAudit

Purpose	To test the SOA's ability to initiate a subscription version audit by TN and handles the subsequent NPAC SMS Simulator discrepancy responses for WSMSC data discrepancies.
Severity	С
Severity Explanation	This test case must be executed if the SOA supports audits for a single TN and will be supporting WSMSC data.
Prerequisites	Active subscriptionVersionNPAC objects with WSMSC discrepancies exist on the NPAC SMS simulator.
Procedure	 SOA issues a subscriptionAudit object creation request to the NPAC SMS Simulator, specifying a TN. NPAC SMS Simulator creates the object, responds to the request and issues the objectCreation notification. SOA handles the objectCreation notification and responds with confirmation NPAC SMS Simulator emulates performing the audit and issues a subscriptionAuditDiscrepancyRpt notification. SOA handles the subscriptionAuditDiscrepancyRpt notification, and responds with confirmation. NPAC SMS Simulator finishes the audit and sends the subscriptionAuditResults notification. SOA handles the subscriptionAuditResults notification, and responds with confirmation. NPAC SMS Simulator issues the objectDeletion notification for the subscriptionAudit object.

	 SOA handles the objectDeletion notification and responds with confirmation. NPAC SMS deletes the subscriptionAudit object locally. (This step may not happen immediately depending on the implementation. The production NPAC SMS issues this delete during a future housekeeping period.)
Expected Results	SOA successfully initiates the audit and handles the subsequent interaction from the NPAC SMS Simulator of this transaction.

16.1.14 A2A.SOA.VAL.WITHDIS.ASSOCSP.RANGE.subscriptionAudit

Purpose	To test the SOA's ability to initiate a subscription version audit for an associated service provider id in the SystemId, with an activation range, for multiple attributes, and handle the subsequent NPAC SMS Simulator discrepancy responses.
Severity	С
Severity Explanation	This test case must be executed if the SOA supports TN range audit processing for an associated service provider.
Prerequisites	An active subscriptionVersionNPAC object with discrepancies exists on the NPAC SMS simulator.
Procedure	 SOA issues subscriptionAudit object creation request to NPAC SMS Simulator for an associated service provider, specifying activation range and multiple attributes, and handle the response message from the NPAC SMS Simulator. NPAC SMS Simulator creates the object, responds to the request and issues the objectCreation notification. SOA handles the objectCreation notification and responds with confirmation NPAC SMS Simulator emulates performing the audit and issues a subscriptionAuditDiscrepancyRpt notification. SOA handles the subscriptionAuditDiscrepancyRpt notification, and responds with confirmation. NPAC SMS Simulator finishes the audit and sends the subscriptionAuditResults notification. SOA handles the subscriptionAuditResults notification, and responds with confirmation. NPAC SMS Simulator issues the objectDeletion notification for the subscriptionAudit object. SOA handles the objectDeletion notification and responds with confirmation. NPAC SMS deletes the subscriptionAudit object locally. (This step may not happen immediately depending on the implementation. The production NPAC SMS issues this delete during a future housekeeping period.)
Expected Results	SOA successfully initiates the audit and handles the subsequent transaction interaction from the NPAC SMS Simulator.

16.1.15 A2A.SOA.VAL.WITHDIS.ASSOCSP.SINGLE.subscriptionAudit

Purpose	To test the SOA's ability to initiate a subscription version audit for an associated service provider id in the SystemId, for a TN, for
	multiple attributes, and handle the subsequent NPAC SMS Simulator discrepancy responses.

Severity	С
Severity Explanation	This test case must be executed if the SOA supports audit processing for a single TN for an associated service provider.
Prerequisites	An active subscriptionVersionNPAC object with discrepancies exists on the NPAC SMS simulator.
Procedure	 SOA issues subscriptionAudit object creation request to NPAC for an associated service provider, specifying a TN and multiple attributes, and handle the response message from the NPAC SMS Simulator. NPAC SMS Simulator creates the object, responds to the request and issues the objectCreation notification. SOA handles the objectCreation notification and responds with confirmation NPAC SMS Simulator emulates performing the audit and issues a subscriptionAuditDiscrepancyRpt notification. SOA handles the subscriptionAuditDiscrepancyRpt notification, and responds with confirmation. NPAC SMS Simulator finishes the audit and sends the subscriptionAuditResults notification. SOA handles the subscriptionAuditResults notification, and responds with confirmation. NPAC SMS Simulator issues the objectDeletion notification for the subscriptionAudit object. SOA handles the objectDeletion notification and responds with confirmation. NPAC SMS deletes the subscriptionAudit object locally. (This step may not happen immediately depending on the implementation. The production NPAC SMS issues this delete during a future housekeeping period.)
Expected Results	SOA successfully initiates the audit and handles the subsequent transaction interaction from the NPAC SMS Simulator.

16.1.16 LSMS.VAL.MISSVER.subscriptionAudit.POOL

Purpose	To test the EDR LSMS's ability to handle an NPAC SMS Simulator initiated subscription version/number pool block audit for a missing number pool block in the EDR LSMS where the subscriptionLNPType is equal to 'POOL'.
Severity	C
Severity Explanation	Required if the service provider is supporting number pool blocks.
Prerequisites	N/A
Procedure	 NPAC SMS Simulator creates an audit for a subscription version/number pool block that is currently missing on the EDR LSMS. NPAC SMS issues the M-GET request to the LSMS for the numberPoolBlock object. LSMS returns an empty M-GET result indicating the object was not found. NPAC SMS issues the M-GET request to the LSMS for the subscriptionVersion object. LSMS returns an empty M-GET result indicating the object was not found. NPAC SMS performs the comparisons and issues the M-CREATE request to the LSMS for the missing

	numberPoolBlock (the missing subscriptionVersion object is correct behavior for EDR LSMS). 7. LSMS responds with a successful M-CREATE response.
Expected Results	LSMS successfully handles the M-GET and M-CREATE requests.

16.2 <u>Service Provider and Network Data Test Cases</u>

МО	Service Provider and Network Data Test Cases
Purpose	This section contains the test cases for Network Data, pertaining to the Application processes of the SOA and LSMS to NPAC SMS Simulator Interface, as part of the Application to Application testing of the NPAC SMS Interoperability Test.
Prerequisite	All Managed Object and stack to stack testing is completed. SOA, NPAC SMS Simulator and LSMS stacks and applications running.

16.2.1 A2A.LSMS.VAL.CREND.serviceProviderNPA-NXX

Purpose	Verify LSMS can create a new NPA-NXX for its own service provider network data.
Severity	C
Severity Explanation	No impact on ability to provide service. Must be performed if LSMS is managing network data.
Prerequisites	
Procedure	 LSMS issues an M-CREATE request for a serviceProvNPA-NXX to the NPAC SMS Simulator to request that an NPA-NXX object be created. NPAC SMS Simulator issues a successful M-CREATE response. NPAC SMS issues an M-CREATE to the LSMS for the serviceProvNPA-NXX object. LSMS issues a successful M-CREATE response.
Expected Results	serviceProvNPA-NXX object created on LSMS.

16.2.2 A2A.LSMS.VAL.DELND.serviceProviderNPA-NXX

Purpose	Verify LSMS can delete an NPA-NXX for its own service provider
•	network data.
Severity	С
Severity Explanation	No impact on ability to provide service. Must be performed if
	LSMS is managing network data.
Prerequisites	serviceProvNPA-NXX already created.
Procedure	LSMS issues a valid M-DELETE request for a serviceProvNPA-NXX to NPAC SMS Simulator to request that an NPA-NXX object be created for its network. NPAC SMS Simulator issues a successful M-DELETE response. LSMS receives M-DELETE request from NPAC SMS

	Simulator for the NPA-NXX object. 4. LSMS responds with a successful M-DELETE response.
Expected Results	serviceProvNPA-NXX object deleted on LSMS.

16.2.3 A2A.LSMS.VAL.CREND.serviceProviderLRN

Purpose	Verify LSMS can create a new LRN for its own service provider network data.
Severity	C C
Severity Explanation	No impact on ability to provide service. Must be performed if LSMS is managing network data.
Prerequisites	
Procedure	 LSMS issues a valid M-CREATE request for a serviceProvLRN to NPAC SMS Simulator to request that an LRN object be created for its network. NPAC SMS Simulator issues a successful M-CREATE response. LSMS receives M-CREATE request from NPAC SMS Simulator for the LRN object. LSMS responds with a successful M-CREATE response.
Expected Results	serviceProvLRN object created on LSMS.

16.2.4 A2A.LSMS.VAL.DELND.serviceProviderLRN

Purpose	Verify LSMS can delete an LRN for its own service provider network data.
Severity	С
Severity Explanation	No impact on ability to provide service. Must be performed if LSMS is managing network data.
Prerequisites	serviceProvLRN already created.
Procedure	 LSMS issues a valid M-DELETE request for a serviceProvLRN to NPAC SMS Simulator to request that an LRN object be created for its network. NPAC SMS Simulator issues a successful M-DELETE response. LSMS receives M-DELETE request from NPAC SMS Simulator for the LRN object. LSMS responds with a successful M-DELETE response.
Expected Results	serviceProvLRN object deleted on LSMS.

16.2.5 A2A.SOA.CAP.OP.SET.ASSOCSP.serviceProv

Purpose	To test the SOA 's ability to SET all of the mandatory attributes on a serviceProv MO instance for an associated service provider.
Severity	С

Severity Explanation	This test case must be executed if the service provider SOA is supporting service provider profile management for an associated service provider.
Prerequisites	A serviceProv MO instance has been created for an associated service provider.
Procedure	 The SOA issues the M-SET serviceProv with an associated service provider is specified in the access control SystemId field and in the service provider id. The NPAC SMS Simulator handles the serviceProv M-SET and sends the M-SET response to the SOA. The SOA handles the M-SET response.
Expected Results	The SOA issues a valid M-SET request for the associated service provider and successfully handles the M-SET response from the NPAC SMS Simulator.

16.2.6 A2A.SOA.CAP.OP.GET.ASSOCSP.serviceProv

Purpose	To test the SOA 's ability to GET a serviceProv MO instance for an associated service provider.
Severity	0
Severity Explanation	This test case should be executed if the service provider SOA is supporting an M-Get of a service provider data for service provider profile management for an associated service provider. However, it does not impact the ability to perform LNP services.
Prerequisites	A serviceProv MO instance has been created for an associated service provider.
Procedure	The SOA issues the M-GET serviceProv with an associated service provider is specified in the access control SystemId field and in the service provider id. The NPAC SMS Simulator handles the serviceProv M-GET and sends the M-GET response to the SOA. The SOA handles the M-GET response.
Expected Results	The SOA issues a valid M-GET request and retrieves the attributes in the M-GET response from the NPAC SMS Simulator.

16.2.7 A2A.SOA.VAL.CREND.ASSOCSP.serviceProviderNPA-NXX

Purpose	Verify that the SOA, acting for an associated service provider, can perform a service provider NPA-NXX create.
Severity	С
Severity Explanation	Test case must be executed if a SOA is to support associated service provider network data management.
Prerequisites	A serviceProvNetwork instance has been created for an associated service provider.
Procedure	 The SOA issues the M-CREATE for the serviceProviderNPA-NXX with an associated service provider specified in the access control SystemId field and in the service provider id. The NPAC SMS Simulator handles the local serviceProviderNPA-NXX create for the associated service provider, and sends the M-CREATE response to the SOA.
Expected Results	SOA issues a valid serviceProviderNPA-NXX M-CREATE and handles the M-CREATE response for an associated service provider.

16.2.8 A2A.SOA.VAL.DELND.ASSOCSP.serviceProviderNPA-NXX

Purpose	Verify that the SOA, acting for an associated service provider, can perform a delete of a service provider NPA-NXX.
Severity	С
Severity Explanation	Test case must be executed if a SOA is to support associated service provider network data management.
Prerequisites	A serviceProvNetwork and serviceProviderNPA-NXX instance has been created for an associated service provider.
Procedure	 The SOA issues the M-DELETE for the serviceProviderNPA-NXX with an associated service provider specified in the access control SystemId field and in the service provider id. The NPAC SMS Simulator handles the local serviceProviderNPA-NXX delete for the associated service provider, and sends the M-DELETE response to the SOA.
Expected Results	SOA issues a valid serviceProviderNPA-NXX M-DELETE and handles the M-DELETE response for the associated service provider.

16.2.9 A2A.SOA.VAL.CREND.ASSOCSP.serviceProviderLRN

Purpose	Verify that the SOA, acting for an associated service provider, can perform a create for a service provider LRN.
Severity	C
Severity Explanation	Test case must be executed if a SOA is to support associated service provider network data management.
Prerequisites	A serviceProvNetwork instance has been created for an associated service provider.
Procedure	 The SOA issues the M-CREATE for the serviceProviderLRN with an associated service provider specified in the access control SystemId field and in the service provider id. The NPAC SMS Simulator handles the local serviceProviderLRN create for the associated service provider, and sends the M-CREATE response to the SOA.
Expected Results	SOA issues a valid serviceProviderLRN M-CREATE and handles the M-CREATE response for the associated service provider.

16.2.10 A2A.SOA.VAL.DELND.ASSOCSP.serviceProviderLRN

Purpose	Verify that the SOA, acting for an associated service provider, can perform a delete of a service provider LRN.
Severity	С
Severity Explanation	Test case must be executed if a SOA is to support associated service provider network data management.
Prerequisites	A serviceProvNetwork and serviceProviderLRN instance has been created for an associated service provider.
Procedure	 The SOA issues the M-DELETE for the serviceProviderLRN with an associated service provider specified in the access control SystemId field and in the service provider id. The NPAC SMS Simulator handles the local serviceProviderLRN delete for the associated service provider, and sends the M-DELETE response to the SOA.
Expected Results	SOA issues a valid serviceProviderLRN M-DELETE and handles the M-DELETE response for the associated service provider.

16.3 <u>Subscription Version Create Test Cases</u>

МО	Subscription Version Test Cases
Purpose	This section contains the A2A test cases for the Subscription Version flows listed in section 6.5 of IIS. The tests examine both the LSMS and the SOA applications. These test cases are part of the Application-to-Application testing of the NPAC SMS Interoperability Test.
Prerequisite	All prior testing phases, i.e. AMG, MOC, SEC, and S2S testing.

16.3.1 A2A.NSOA.VAL.CREATE.TN-RANGE.SubscriptionVersion

Purpose	Verify the New Service Provider SOA can perform a create for subscription versions on the NPAC SMS Simulator using a TN range. The Old Service Provider SOA is simulated. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	C
Severity Explanation	Required if the SOA is supporting the creation of a range of subscription versions using the SubscriptionVersionNewSP-Create action.
Prerequisites	
Procedure	 The New Service Provider SOA issues the M-ACTION SubscriptionVersionNewSP-Create to NPAC SMS Simulator using a TN-Range. The NPAC SMS Simulator creates the subscriptionVersionNPAC instances locally, and sends the M-ACTION response to the New Service Provider SOA. NPAC SMS Simulator issues an objectCreation or subscriptionVersionRangeObjectCreation notification for each subscription version created. The New Service Provider SOA confirms each objectCreation notification sent, which contains the 'pending' subscriptionVersionStatus for each of the newly created versions.
Expected Results	The New Service Provider SOA successfully initiates the transaction and handles the subsequent interactions with the NPAC SMS Simulator. The created subscriptionVersionNPAC instances will have a subscriptionVersionStatus of 'pending'.

16.3.2 A2A.NSOA.VAL.CREATE.CONFLICT.SubscriptionVersion

Purpose	Verify the New Service Provider SOA can handle a subscription version created in the 'conflict' state on the NPAC SMS Simulator. The Old Service Provider SOA is simulated. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	R
Severity Explanation	Direct impact on ability to provide service.
Prerequisites	
Procedure	The simulated Old Service Provider SOA locally creates a

	subscription version without providing authorization for the transfer of service. 2. NPAC SMS Simulator sends the objectCreation or subscriptionVersionRangeObjectCreation notification to the New Service Provider SOA for the new subscriptionVersion with the subscriptionVersionStatus set to 'conflict'. 3. The New Service Provider SOA confirms the objectCreation notification.
Expected Results	The New Service Provider SOA successfully handles the interactions with the NPAC SMS Simulator. The created subscriptionVersionNPAC instance will have a status of 'conflict'.

16.3.3 A2A.OSOA.VAL.CREATE.TN-RANGE.SubscriptionVersion

Severity Severity Explanation	Verify the Old Service Provider SOA can perform a create for subscription versions on the NPAC SMS Simulator using a TN range. The New Service Provider SOA is simulated. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications. O Direct impact on ability to provide service. Requirements may be satisfied by MOC.SOA.CAP.ACT.subscriptionVersionOldSP-
	Create-Initial and MOC.SOA.CAP.ACT.subscriptionVersionOldSP-Create-Second.
Prerequisites	
Procedure	 The Old Service Provider SOA issues the M-ACTION SubscriptionVersionOldSP –Create to the NPAC SMS Simulator using the TN-Range. The NPAC SMS Simulator creates the subscriptionVersionNPAC instances locally and sends the M-ACTION response to the Old Service Provider SOA. The NPAC SMS Simulator sends an objectCreation or subscriptionVersionRangeStatusAttributeValueChange notification for each subscription version created with the subscriptionVersionStatus set to 'pending'. The Old Service Provider SOA confirms each objectCreation notification sent.
Expected Results	The Old Service Provider SOA successfully initiates the transaction and handles the subsequent interactions with the NPAC SMS Simulator. The created subscriptionVersionNPAC instances will have a subscriptionVersionStatus of 'pending'.

16.3.4 A2A.OSOA.VAL.NOCONC.ACTIVATE.SubscriptionVersion

Purpose	Verify the Old Service Provider SOA can handle the situation where
	a subscription version is activated by the new Service Provider SOA
	and the Old Service Provider SOA disregards both concurrence

	request notifications from the NPAC SMS Simulator. This test case
	must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	R
Severity Explanation	Direct impact on ability to provide service. Requirement exists to handle the initial and final concurrence requests.
Prerequisites	
Procedure	 The simulated New Service Provider SOA sends a subscriptionVersionNewSP-Create request for a subscription version to the NPAC SMS Simulator. The NPAC SMS Simulator issues the M-CREATE request and response and creates the subscriptionVersion locally. The NPAC SMS Simulator emits the object creation or subscriptionVersionRangeObjectCreation notification to the Old Service Provider SOA. The Old Service Provider SOA confirms the notification sent by the NPAC SMS Simulator. No response is received from Old Service Provider SOA regarding the newly created subscription version within "Initial Concurrence Window". NPAC SMS Simulator sends M-EVENT-REPORT of subscriptionVersionOldSP-ConcurrenceRequest or subscriptionVersionRangeOldSP-ConcurrenceRequest or subscriptionVersionRangeOldSP-ConcurrenceRequestnotification to the Old Service Provider SOA. The Old Service Provider SOA confirms the notification. Still no response from the Old Service Provider SOA regarding the newly created subscription version within the "Final Concurrence Window". NPAC SMS Simulator sends M-EVENT-REPORT of subscriptionVersionOldSP-FinalConcurrenceWindowExpiration notification or subscriptionVersionRangeOldSP-FinalConcurrenceWindowExpiration to the Old Service Provider SOA. The Old Service Provider SOA confirms the notification. The simulated New Service Provider SOA activates the subscription version. NPAC SMS Simulator emulates sending M-CREATE request for the subscription version to all the Local LSMSs, receives successful responses from each and updates the subscriptionVersionStatus to 'active'. NPAC SMS Simulator sends a subscriptionVersionStatus to 'active'. NPAC SMS Simulator sends a subscription VersionStatus AttributeValueChange or subscriptionVersionStatus AttributeValueChange notification with an 'active' status to the Old Service Provider SOA. <li< td=""></li<>
Expected Results	The subscription version was successfully activated by the New Service Provider SOA in the absence of the Old Service Provider SOA's concurrence.

16.3.5 A2A.OSOA.VAL.NOCONC.NOACTIVATE.SubscriptionVersion

Purpose	Verify the Old Service Provider SOA can handle the situation where
i uipose	a subscription version is to be activated by the new Service Provider SOA and the Old Service Provider SOA responds to the final
	concurrence notification by putting the subscription Version into a
	status of 'conflict'. This test case must be executed twice if a SOA
	is supporting both "individual" and "range/list" notifications.
Severity	R
Severity Explanation	Direct impact on ability to provide service.
Prerequisites	
Procedure	The simulated New Service Provider SOA creates a
	subscription version on the NPAC SMS Simulator.
	2. NPAC SMS receives the create request and proceeds to issue an
	M-CREATE request and response to itself to create the
	subscriptionVersion locally.
	3. NPAC SMS Simulator sends the object creation or
	subscriptionVersionRangeObjectCreation notification to the
	Old Service Provider SOA
	4. The Old Service Provider SOA confirms the object creation
	notification sent by the NPAC SMS Simulator. 5. No response is received from Old Service Provider SOA
	regarding the newly created subscription version within the
	"Initial Concurrence Window".
	6. NPAC SMS Simulator sends M-EVENT-REPORT of
	subscriptionVersionOldSP-ConcurrenceRequest or
	subscriptionVersionRangeOldSP-ConcurrenceRequest
	notification to the Old Service Provider SOA.
	7. The Old Service Provider SOA confirms the notification.
	8. Still no response is received from the Old Service Provider
	SOA regarding the newly created subscription version in
	"Final Concurrence Window".
	9. NPAC SMS Simulator sends the subscriptionVersionOldSP-
	FinalConcurrenceWindowExpiration or
	subscriptionVersionRangeOldSP-FinalConcurrenceWindow notification to the Old Service Provider SOA.
	10. The Old Service Provider SOA confirms the notification.
	11. Before the subscription version is activated, the Old Service
	Provider SOA sends to the NPAC SMS Simulator a
	subscription Version OldSP-Create request for the subscription
	version in which the subscriptionOldSP-Authorization is set to
	'false' and the subscriptionStatusChangeCauseCode is
	provided.
	12. NPAC SMS Simulator sends the attributeChangeValue or
	subscriptionVersionRangeAttributeValueChange notification
	containing all the required attributes including the
	to the Old Service Provider SOA.
	subscriptionOldSP-Authorization and subscriptionStatusChangeCauseCode to the Old Service Provider SOA 13. Old Service Provider SOA confirms the notification. 14. NPAC SMS Simulator sends the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange notification with the subscriptionVersionStatus set to 'conflict

	15. Old Service Provider SOA confirms the notification.
Expected Results	The subscription version created by the New Service Provider SOA is put into conflict by the Old Service Provider SOA.

16.3.6 A2A.OSOA.VAL.CREATE.CONFLICT.SubscriptionVersion

Purpose	Verify the Old Service Provider SOA can create a subscription version with a status of 'conflict' on the NPAC SMS Simulator. The New Service Provider SOA is simulated. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	R
Severity Explanation	Direct impact on ability to provide service.
Prerequisites	
Procedure	 The simulated New Service Provider SOA sends a create request for a subscription version on the NPAC SMS Simulator. NPAC SMS receives the create request and proceeds to issue an M-CREATE request and response to itself to create the subscription Version locally. NPAC SMS Simulator sends the object creation or subscription VersionRangeObjectCreation notification to the Old Service Provider SOA. NPAC SMS Simulator emits the object creation notifications. The Old Service Provider SOA confirms the notification sent by the NPAC SMS Simulator, which contains the subscriptionStatus of 'pending' for the newly created version. The Old Service Provider SOA issues the subscriptionVersionOldSP-Create action with the subscriptionStatusChangeCauseCode. NPAC SMS Simulator updates the subscriptionVersionStatus with the Old Service Provider's data, sets the subscriptionVersionStatus to 'conflict' and responds to the M-ACTION. NPAC SMS Simulator issues the attributeValueChange or subscriptionVersionRangeAttributeValueChange notification with the subscriptionVersionStatus set to 'conflict'. The Old Service Provider SOA confirms the notification.
Expected Results	The Old Service Provider SOA successfully handles the interactions with the NPAC SMS Simulator. The created subscriptionVersionNPAC will have a final status of 'conflict'.

16.3.7 A2A.NSOA.VAL.CREATE.INTRA-SP-PORT.SubscriptionVersion

Purpose	Verify a SOA can create an Intra-Service Provider subscription version port. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	C
Severity Explanation	Required if SOA is supporting intra-service provider ports.

Prerequisites	
Procedure	 The new service provider SOA issues the subscriptionVersionCreate action specifying an intra-service provider port by setting the subscriptionLnpType attribute to LISP. The NPAC simulator sends the M-ACTION response indicating the subscription version was successfully created. The NPAC simulator locally creates the 'pending' subscription version and emits the objectCreation or subscriptionVersionRangeObjectCreation notification. The SOA handles the notification sent by the NPAC simulator, and confirms it.
Expected Results	The New SP SOA successfully initiates the transaction and handles the subsequent interactions with the NPAC simulator. The created
	subscriptionVersionNPAC instance will have a status of 'pending'.

$16.3.8\,A2A.DSOA.VAL.PORT-TO-ORIG. Subscription Version$

	T
Purpose	To verify a New Service Provider SOA can perform a port-to- original. The Old Service Provider SOA is simulated. This test case
	must be executed twice if a SOA is supporting both "individual"
	and "range/list" notifications.
Severity	R
Severity Explanation	Direct Impact on providing service.
	All subscription version create, activate and disconnect test cases.
Prerequisites	· · · · · · · · · · · · · · · · · · ·
Procedure	The New Service Provider SOA issues the
	subscriptionVersionCreate action specifying a port-to-original
	by setting the subscriptionPortingToOriginal-Service
	ProviderSwitch attribute to 'true'.
	2. The NPAC SMS Simulator locally creates the 'pending'
	subscription version, responds to the M-ACTION and issues
	the objectCreation or subscriptionVersionRangeObjectCreation
	notification.
	3. The SOA confirms the objectCreation notification sent by the
	NPAC SMS Simulator.
	4. The SOA issues the M-ACTION subscription Version Activate
	for the newly created and 'pending' subscriptionVersionNPAC
	instance.
	5. The NPAC SMS Simulator locally sets the
	subscriptionVersionStatus of the 'pending' instance to
	'sending', and responds to the M-ACTION.
	6. The NPAC SMS Simulator emulates deleting the version from
	all the LSMSs, locally sets the subscriptionVersionStatus to
	'old', and sends the
	subscriptionVersionStatusAttributeValueChange or
	subscriptionVersionRangeStatusAttributeValueChange
	notification to the SOA.
	7. 10. The New Service Provider SOA confirms the notification.
Expected Results	The SOA successfully initiates the transaction and handles the
	subsequent interactions with the NPAC SMS Simulator. The created
	subscriptionVersionNPAC instance will have a final status of 'old'.

16.3.9 A2A.NSOA.INV.MISS.INITIAL.CONC.SubscriptionVersion

To verify the Old Service Provider SOA can detect and handle the situation where it receives the subscriptionVersionOldSP-FinalConcurrenceWindowExpiration notification without receiving the OldSP-ConcurrenceRequest notification first. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications. O
Requirement does not exist. SOA may perform to validate error handling.
 The simulated New Service Provider SOA sends a create request for a subscription version on the NPAC SMS Simulator. NPAC SMS Simulator receives the create request and proceeds to issue an M-CREATE request and response to itself to create the subscriptionVersion locally. The NPAC SMS Simulator issues the object creation or subscriptionVersionRangeObjectCreation notification to the Old Service Provider SOA. The Old Service Provider SOA confirms the notification sent by the NPAC SMS Simulator. No action is received from the Old Service Provider SOA regarding the new subscription version. Without sending subscriptionVersionOldSP-ConcurrenceRequest first, NPAC SMS Simulator sends M-EVENT-REPORT of subscriptionVersionOldSP-FinalConcurrenceWindowExpiration notification or subscriptionVersionRangeOldSP-FinalConcurrenceWindowExpiration to the Old Service Provider SOA. The Old Service Provider SOA confirms the notification.
The error is detected and logged.

16.3.10 A2A.NSOA.INV.STATE-TRANS.PEND-ACTIVE.SubscriptionVersion

Purpose	To verify the New Service Provider SOA can handle a state transition of a Subscription Version status from 'pending' to 'active' prior to the due date. The Old Service Provider SOA is simulated. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	0
Severity Explanation	Requirement does not exist. SOA may perform to validate error handling.
Prerequisites	MOC.SOA.CAP.ACT.subscriptionVersionNewSP-Create-Initial
Procedure	The New Service Provider SOA issues the M-ACTION subscriptionVersionNewSP-Create to create a new subscription version on the NPAC SMS Simulator with a

	subscriptionVersionNewSP-DueDate set to several days into the future. 2. NPAC SMS Simulator handles the local subscriptionVersionNPAC create, and sends the M-ACTION response to the New Service Provider SOA. 3. NPAC SMS Simulator issues the objectCreation or subscriptionVersionRangeObjectCreation notification which contains the subscriptionVersionStatus set to 'pending' for the created version. 4. The New Service Provider SOA confirms the notification. 5. NPAC SMS Simulator issues a subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange M-EVENT-REPORT with a subscriptionVersionStatus set to 'active' prior to the due date. 6. The New Service Provider SOA confirms the notification.
Expected Results	The New Service Provider SOA handles the notification.

16.3.11 A2A.NSOA.INV.STATE-TRANS.PEND-OLD.SubscriptionVersion

Purpose	To verify the New Service Provider SOA can handle an invalid state transition of a Subscription Version from Pending to Old. The Old Service Provider SOA is simulated. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity Explanation	Requirement does not exist. SOA may run to verify error handling.
Severity Explanation	
Prerequisites	MOC.SOA.CAP.ACT.subscriptionVersionNewSP-Create-Initial
Procedure	 The New Service Provider SOA issues the M-ACTION SubscriptionVersionNewSP-Create to the NPAC SMS Simulator. NPAC SMS Simulator handles the local subscriptionVersionNPAC create, and sends the M-ACTION response to the New Service Provider SOA. NPAC SMS Simulator issues the objectCreation or subscriptionVersionRangeObjectCreation notification which contains the subscriptionVersionStatus set to 'pending'. The New Service Provider SOA confirms the notification sent by the NPAC SMS Simulator. NPAC SMS Simulator issues a subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange notification with the subscriptionVersionStatus set to 'old'. The New Service Provider SOA confirms the notification.
Expected Results	The New Service Provider SOA handles the notification.

16.3.12 A2A.OSOA.INV.STATE-TRANS.PEND-OLD.SubscriptionVersion

Purpose	To verify that the Old Service Provider SOA can handle a state
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	transition of a Subscription Version from 'pending' to 'old'. The
	New Service Provider SOA is simulated. This test case must be
	executed twice if a SOA is supporting both "individual" and
	"range/list" notifications.
Severity	0
Severity Explanation	Requirement does not exist. SOA may perform to verify error handling.
Prerequisites	MOC.SOA.CAP.ACT.subscriptionVersionOldSP-Create-Initial
Procedure	 The Old Service Provider SOA issues the M-ACTION SubscriptionVersionOldSP-Create to the NPAC SMS Simulator. NPAC SMS Simulator handles the local subscriptionVersionNPAC create, and sends the M-ACTION response to the Old Service Provider SOA. NPAC SMS Simulator issues the objectCreation or subscriptionVersionRangeObjectCreation notification containing the subscriptionVersionStatus set to 'pending'. The Old Service Provider SOA confirms the notification. NPAC SMS Simulator issues the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange notification containing the subscriptionVersionStatus set to 'old'. The Old Service Provider SOA confirms the notification from the NPAC SMS Simulator.
Expected Results	The Old Service Provider SOA handles the notification.

16.3.13 A2A.OSOA.INV.STATE-TRANS.PEND-FAILED.SubscriptionVersion

Purpose	To verify the Old Service Provider SOA can handle an invalid state transition of a Subscription Version from 'pending' to 'failed'. The New Service Provider SOA is simulated. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	0
Severity Explanation	Requirement does not exist. SOA may perform to verify error handling.
Prerequisites	MOC.SOA.CAP.ACT.subscriptionVersionOldSP-Create-Initial
Procedure	 The Old Service Provider SOA issues the M-ACTION SubscriptionVersionOldSP-Create to the NPAC SMS Simulator. NPAC SMS Simulator handles the local subscriptionVersionNPAC create, and sends the M-ACTION response to the Old Service Provider SOA. NPAC SMS Simulator issues the objectCreation or subscriptionVersionRangeObjectCreation notification with the subscriptionVersionStatus set to 'pending'. The Old Service Provider SOA confirms the notification sent by the NPAC SMS Simulator. NPAC SMS Simulator issues the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange

	notification with the subscriptionVersionStatus set to 'download-failed'. 6. The Old Service Provider SOA confirms the notification.
Expected Results	The Old Service Provider SOA handles the notification.

16.3.14 A2A.NSOA.INV.CREATE.ACTIVE.SubscriptionVersion

Purpose	To verify the New Service Provider SOA can handle the error condition where in response to a create request it receives an 'active' instead of a 'pending' subscription version status in the objectCreation notification. The Old SOA is simulated. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	0
Severity Explanation	Requirement does not exist. May be performed to verify error handling.
Prerequisites	MOC.SOA.CAP.ACT.subscriptionVersionNewSP-Create-Initial
Procedure	 The New Service Provider SOA issues the M-ACTION SubscriptionVersionNewSP-Create. NPAC SMS Simulator handles the local subscriptionVersionNPAC create, and sends the M-ACTION response to the New Service Provider SOA. NPAC SMS Simulator issues the objectCreation or subscriptionVersionRangeObjectCreation notification which contains the subscriptionVersionStatus set to 'active' for the subscription version. The New Service Provider SOA confirms the notification.
Expected Results	The New Service Provider SOA handles the notification.

16.3.15 A2A.OSOA.INV.CREATE.SENDING.SubscriptionVersion

Purpose	To verify the New Service Provider SOA can handle the error condition where in response to a create request it receives a
	'sending' instead of a 'pending' subscription version status in the
	objectCreation notification. The Old SOA is simulated. This test
	case must be executed twice if a SOA is supporting both
	"individual" and "range/list" notifications.
Severity	0
Severity Explanation	Requirement does not exist. SOA may perform to validate error handling.
Prerequisites	MOC.SOA.CAP.ACT.subscriptionVersionOldSP-Create-Initial
Procedure	 The Old Service Provider SOA issues the M-ACTION SubscriptionVersionOldSP-Create. NPAC SMS Simulator handles the local subscriptionVersionNPAC create, and sends the M-ACTION response to the Old Service Provider SOA. NPAC SMS Simulator issues the objectCreation or

	subscriptionVersionRangeObjectCreation notification with the subscriptionVersionStatus set to 'sending'. 4. The Old Service Provider SOA confirms the objectCreation notification.
Expected Results	The Old Service Provider SOA handles the notification.

16.3.16 A2A.NSOA.INV.OBJCRE.NOTMISS.SubscriptionVersion

Purpose	To verify the New Service Provider SOA can handle the error condition where it never receives the subscription version objectCreation notification in response to a create action request. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	0
Severity Explanation	Requirement does not exist. SOA may perform to verify error handling.
Prerequisites	MOC.SOA.CAP.ACT.subscriptionVersionNewSP-Create-Initial
Procedure	 The New Service Provider SOA issues the M-ACTION SubscriptionVersionNewSP-Create. NPAC SMS Simulator handles the local subscriptionVersionNPAC create and sends the M-ACTION response to the New Service Provider SOA. The NPAC SMS Simulator creates the version instance, but does not send the objectCreation or subscriptionVersionRangeObjectCreation notification to the New Service Provider SOA. The New Service Provider SOA issues an M-GET request for the subscriptionVersionNPAC instance which was supposed to be created. The NPAC SMS Simulator returns an M-GET response containing the newly created object. The New Service Provider SOA handles the M-GET result.
Expected Results	The New Service Provider SOA detects the error and queries the NPAC SMS Simulator for the newly created version.

16.3.17 A2A.OSOA.INV.OBJCRE.NOTMISS.SubscriptionVersion

Purpose	To verify the Old Service Provider SOA can handle the error condition where it never receives the subscription version objectCreation notification in response to a create action request. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	0
Severity Explanation	Requirement does not exist. SOA may perform to verify error handling.
Prerequisites	MOC.SOA.CAP.ACT.subscriptionVersionOldSP-Create-Initial
Procedure	The Old Service Provider SOA issues the M-ACTION SubscriptionVersionOldSP-Create.

	2. NPAC SMS Simulator handles the local
	subscriptionVersionNPAC create and sends the M-ACTION
	response to the Old Service Provider SOA.
	3. The NPAC SMS Simulator creates the version instance, but
	does not send the objectCreation or
	subscriptionVersionRangeObjectCreation notification to the
	Old Service Provider SOA.
	4. The Old Service Provider SOA issues an M-GET request for
	the subscriptionVersionNPAC instance, which was supposed to
	be created.
	5. The NPAC SMS Simulator returns an M-GET response
	containing the newly created object.
	6. The Old Service Provider SOA handles the M-GET result.
Expected Results	The Old Service Provider SOA detects the error and queries the
	NPAC SMS Simulator for the subscription version.

16.4 <u>Subscription Version Activate Test Cases</u>

16.4.1 A2A.NSOA.VAL.ACTIVATE.BYNPAC.SubscriptionVersion

Purpose	To verify the New Service Provider SOA can accept a subscription version activated by the NPAC SMS Simulator. The Old Service Provider SOA and LSMSs are simulated. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	R
Severity Explanation	Direct impact on ability to provide service.
Prerequisites	 Successful completion of all CREATE test cases. Subscription version exists in a state of 'pending'.
Procedure	 The NPAC SMS Simulator activate the subscription version and sets subscriptionVersionStatus of the 'pending' instance to 'sending'. The NPAC SMS Simulator emulates receiving positive M-CREATE response from all the LSMSs, locally sets the subscriptionVersionStatus of the 'sending' instance to 'active', and sends the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange notification to the New Service Provider SOA. The New Service Provider SOA confirms the notification.
Expected Results	The SOA successfully handles the interactions with the NPAC SMS Simulator resulting in an active version.

16.4.2 A2A.NSOA.VAL.ACTIVATE.SubscriptionVersion

	•
Purpose	To verify the New Service Provider SOA can activate a subscription
•	version in the pending state. The Old Service Provider SOA and the
	LSMSs are simulated. This test case must be executed twice if a
	SOA is supporting both "individual" and "range/list" notifications.
Severity	R

Severity Explanation	Direct impact on ability to provide service.
Prerequisites	Successful completion of all CREATE test cases. 'Pending' subscription version exists.
Procedure	 The New Service Provider SOA issues the M-ACTION subscriptionVersionActivate for a 'pending' subscriptionVersionNPAC instance on the NPAC SMS Simulator. NPAC SMS Simulator sets the subscriptionVersionStatus to 'sending' and responds to the action. The NPAC SMS Simulator emulates receiving positive M-CREATE responses from all the LSMSs, locally sets the subscriptionVersionStatus of the 'sending' instance to 'active', and sends the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange notification to the New Service Provider SOA. The New Service Provider SOA confirms the notification.
Expected Results	New Service Provider SOA successfully initiates the transaction and handles the subsequent interactions with the NPAC SMS Simulator.

16.4.3 A2A.NSOA.VAL.ACTIVATE.FAIL.SubscriptionVersion

Purpose	To verify the New Service Provider SOA can handle an activation failure for a subscription version. The Old Service Provider SOA and the LSMSs are simulated. This test case must be executed twice if a SOA is supporting both "individual" and "range/list"
	notifications.
Severity	R
Severity Explanation	Impacts ability to provide service.
Prerequisites	A2A.NSOA.VAL.ACTIVATE.SubscriptionVersion
•	'Pending' subscription version exists.
Procedure	 The New Service Provider SOA issues the M-ACTION subscriptionVersionActivate for a 'pending' subscriptionVersionNPAC instance on the NPAC SMS Simulator NPAC SMS Simulator updates the subscriptionVersionStatus to 'sending' and sends the action response. The NPAC SMS Simulator emulates receiving negative responses from all the LSMSs, locally sets the subscriptionVersionStatus to 'download-failed', and sends the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange notification to the New Service Provider SOA. The New Service Provider SOA confirms the notification.
Expected Results	New Service Provider SOA successfully initiates the transaction and handles the subsequent interactions with the NPAC SMS Simulator.

16.4.4 A2A.NSOA.VAL.ACTIVATE.PARTFAIL.SubscriptionVersion

To assift the New Comics Duration COA and heading and the
To verify the New Service Provider SOA can handle a partial-
failure activation for a subscription version. The Old Service
Provider SOA and the LSMSs are simulated. This test case must be
executed twice if a SOA is supporting both "individual" and
"range/list" notifications.
R
Impacts ability to provide service
A2A.NSOA.VAL.ACTIVATE.SubscriptionVersion
'Pending' subscription version exists.
1. The New Service Provider SOA issues the M-ACTION
subscriptionVersionActivate for a pending
subscriptionVersionNPAC instance on the NPAC SMS
Simulator.
2. The NPAC SMS Simulator locally sets the
subscriptionVersionStatus to 'sending' and responds to the M-ACTION.
3. The NPAC SMS Simulator emulates receiving a negative
response from one LSMS, locally sets the
subscriptionVersionStatus to 'download-failed-partial', updates
the subscriptionFailedSP-List with the failed LSMS, and sends
the subscriptionVersionStatusAttributeValueChange or
subscription VersionRangeStatusAttribute ValueChange
notification to the New Service Provider SOA.
4. The New Service Provider SOA confirms the
subscriptionVersionStatusAttributeValueChange notification.
New Service Provider SOA successfully initiates the transaction and
handles the subsequent interactions with the NPAC SMS Simulator.

16.4.5 A2A.OSOA.VAL.ACTIVATE.SubscriptionVersion

Purpose	To verify the Old Service Provider SOA can handle the activation of a subscription version by the simulated New Service Provider SOA. The LSMSs are simulated. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	R
Severity Explanation	Impacts ability to provide service.
Prerequisites	Successful completion of all CREATE test cases. 'Pending' subscription version exists.
Procedure	 The simulated New Service Provider SOA activates the pending subscription version. NPAC SMS Simulator locally sets the subscriptionVersionStatus to 'sending', and responds to the M-ACTION. The NPAC SMS Simulator emulates receiving positive responses from all the LSMSs for the subscriptionVersion M-CREATE, locally sets the subscriptionVersionStatus to 'active', and sends the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange notification to the Old Service Provider SOA.

	4. The Old Service Provider SOA confirms the notification.
Expected Results	Old Service Provider SOA successfully handles the interactions with the NPAC SMS Simulator.

16.4.6 A2A.OSOA.VAL.ACTIVATE.FAIL.SubscriptionVersion

Purpose	To verify the Old Service Provider SOA can handle the activation failure of a subscription version by the simulated New Service Provider SOA. The LSMSs are simulated.
Severity	R
Severity Explanation	Impacts ability to provide service. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Prerequisites	A2A.OSOA.VAL.ACTIVATE.SubscriptionVersion 'Pending' subscription version exists.
Procedure	 The simulated New Service Provider SOA activates the pending subscription version. NPAC SMS Simulator locally sets the subscriptionVersionStatus to 'sending', and responds to the MACTION. The NPAC SMS Simulator emulates receiving positive responses from all the LSMSs for the subscriptionVersion MCREATE, locally sets the subscriptionVersionStatus to 'failed' and sends the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange notification to the Old Service Provider SOA. The Old Service Provider SOA confirms the notification.
Expected Results	Old Service Provider SOA successfully handles the interactions with the NPAC SMS Simulator.

16.4.7 A2A.OSOA.VAL.ACTIVATE.PARTFAIL.SubscriptionVersion

Purpose	To verify the Old Service Provider SOA can handle the partial-failure activation of a subscription version by the simulated New Service Provider SOA. The LSMSs are simulated. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	R
Severity Explanation	Impacts ability to provide service.
Prerequisites	A2A.OSOA.VAL.ACTIVATE.SubscriptionVersion 'Pending' subscription version exists.
Procedure	 The simulated New Service Provider SOA activates the pending subscription version. NPAC SMS Simulator locally sets the subscriptionVersionStatus to 'sending', and responds to the M-ACTION. The NPAC SMS Simulator emulates receiving positive responses from all the LSMSs for the subscriptionVersion M-CREATE, locally sets the subscriptionVersionStatus to

	'download-failed-partial' and sends the
	subscriptionVersionStatusAttributeValueChange or
	subscriptionVersionRangeStatusAttributeValueChange
	notification to the Old Service Provider SOA.
	4. The Old Service Provider SOA confirms the notification.
Expected Results	Old Service Provider SOA successfully handles the interactions
,	with the NPAC SMS Simulator.

16.4.8 A2A.NSOA.ACTIVATE.ACTNOTMISS.SubscriptionVersion

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Purpose	To verify the New Service Provider SOA can handle the error condition where the NPAC SMS Simulator never sends it the notification for a status change to active. This test case must be
	executed twice if a SOA is supporting both "individual" and
2 '1	"range/list" notifications.
Severity	0
Severity Explanation	SOA may perform to verify error handling.
Prerequisites	A2A.NSOA.VAL.ACTIVATE.SubscriptionVersion
	Pending subscription version exists.
Procedure	 The New Service Provider SOA issues the M-ACTION subscription Version Activate for a 'pending' subscription Version NPAC instance on the NPAC SMS Simulator. NPAC SMS Simulator update the subscription Version Status to 'sending' and sends the M-ACTION response. The NPAC SMS Simulator emulates receiving positive responses from all the LSMSs, locally sets the subscription Version Status Attribute Value Change or subscription Version Status Attribute Value Change notification to the New Service Provider SOA. The New Service Provider SOA recognizes the error condition and issues an M-GET request for the status of the subscription Version NPAC instance.
Expected Results	The New Service Provider SOA detects the missing notification, and queries the NPAC SMS Simulator for the current status of the
	subscription version.

16.4.9 A2A.NSOA.INV.ACTIVATE.PARTFAIL.SubscriptionVersion

Purpose	To verify the New Service Provider SOA can handle the error condition where a partial-failure activation occurs and the NPAC SMS Simulator sends the notification for status change to 'download-failed-partial' with an empty Failed Service Provider List. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	0
Severity Explanation	Requirement does not exist. SOA may perform to validate error handling.
Prerequisites	A2A.NSOA.VAL.ACTIVATE.SubscriptionVersion

	'Pending' subscription version exists.
Procedure	The New Service Provider SOA issues the M-ACTION subscriptionVersionActivate for a 'pending' subscriptionVersionNPAC instance on the NPAC SMS Simulator. The NPAC SMS Simulator locally sets the
	subscriptionVersionStatus to 'sending' and responds to the M-ACTION request.
	3. The NPAC SMS Simulator emulates receiving a negative response from one LSMS locally sets the subscriptionVersionStatus to 'download-failed-partial', but does not update the failed Service Provider list with the failed LSMS, and sends the
	subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange
	notification to the New Service Provider SOA. 4. The New Service Provider SOA confirms the notification.
Expected Results	The New Service Provider SOA handles the error condition.

16.4.10 A2A.OSOA.INV.ACTIVATE.PARTFAIL.SubscriptionVersion

Purpose	To verify the Old Service Provider SOA can handle the error condition where a partial-failure activation occurs and the NPAC SMS Simulator sends it the notification for status change to partial-failed with an empty Failed Service Provider List. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	0
Severity Explanation	Requirement does not exist. SOA may perform to verify error handling.
Prerequisites	A2A.OSOA.VAL.ACTIVATE.SubscriptionVersion
	'Pending' subscription version exists.
Procedure	 The simulated New Service Provider SOA sends an activation request to the NPAC SMS Simulator. NPAC SMS Simulator locally sets the subscriptionVersionStatus to 'sending' and responds to the activation request. The NPAC SMS Simulator emulates receiving a negative response from one LSMS, locally sets the subscriptionVersionStatus to 'download-failed-partial', but does not update the failed Service Provider list with the failed LSMS, and sends the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange notification to the Old Service Provider SOA. The Old Service Provider SOA confirms the notification and handles the error condition.
Expected Results	The Old Service Provider SOA handles the notification.

16.4.11 A2A.NSOA.VAL.ACTIVATE.TN-RANGE.SubscriptionVersion

Purpose	To verify the New Service Provider SOA can activate a range of subscription versions in the pending state. The Old Service Provider SOA and the LSMSs are simulated. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	C
Severity Explanation	SOA must execute if supporting range activations using the subscriptionVersionActivate action.
Prerequisites	Successful completion of all CREATE test cases. 'Pending' subscription versions exist.
Procedure	 The New Service Provider SOA issues the M-ACTION subscriptionVersionActivate for a range of 'pending' subscriptionVersionNPAC instances on the NPAC SMS Simulator. NPAC SMS Simulator sets the subscriptionVersionStatuses to 'sending' and responds to the action. The NPAC SMS Simulator emulates receiving positive responses from all the LSMSs, locally sets the subscriptionVersionStatus of the 'sending' instance to 'active', and sends the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange notification to the New Service Provider SOA. The New Service Provider SOA confirms the notification.
Expected Results	New Service Provider SOA successfully initiates the transaction and handles the subsequent interactions with the NPAC SMS Simulator.

16.5 <u>Subscription Version Modify Test Cases</u>

16.5.1 A2A.NSOA.VAL.MODIFY.PEND.SubscriptionVersion

Purpose	To verify the New Service Provider SOA can modify a subscription version in the pending state using a Modify Action. The Old Service Provider SOA is simulated. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	R
Severity Explanation	Direct impact on ability to provide service.
Prerequisites	All version creation test cases.
	'Pending' subscription version exists.
Procedure	 The New Service Provider SOA issues an M-ACTION subscriptionVersionModify to NPAC SMS Simulator. NPAC SMS Simulator locally sets the attribute values of the subscriptionVersionNPAC instance and responds to the M-ACTION request. NPAC SMS Simulator issues the attributeValueChange or subscriptionVersionRangeAttributeValueChange notification containing the updated attributes. The New Service Provider SOA confirms the notification.

Expected Results	New Service Provider SOA successfully initiates the transaction and handles the subsequent interactions with the NPAC SMS Simulator.
	The subscriptionVersionNPAC attributes should be modified accordingly.

16.5.2 A2A.OSOA.VAL.MODIFY.PEND.SubscriptionVersion

Purpose	To verify the Old Service Provider SOA can modify a subscription version in the pending state using a Modify Action. The New Service Provider SOA is simulated. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	R
Severity Explanation	Direct impact on ability to provide service
Prerequisites	All version creation test cases.
	'Pending' subscription version exists.
Procedure	 The Old Service Provider SOA issues an M-ACTION subscription Version Modify to NPAC SMS Simulator. The NPAC SMS Simulator locally sets the attribute values of the subscription Version NPAC instance and responds to the M-ACTION. NPAC SMS Simulator issues the attribute Value Change or subscription Version Range Attribute Value Change notification to the Old Service Provider SOA containing the updated attributes. The Old Service Provider SOA confirms the notification.
Expected Results	Old Service Provider SOA successfully initiates the transaction and handles the subsequent interactions with the NPAC SMS Simulator. The subscriptionVersionNPAC attributes should be modified accordingly.

16.5.3 A2A.SOA.VAL.MODIFY.ACTIVE.SubscriptionVersion

Purpose	To test that a SOA can modify an active subscription version. The LSMSs are simulated. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	R
Severity Explanation	Direct impact on ability to provide service.
Prerequisites	A subscription version had been created and activated.
Procedure	 The SOA issues an M-ACTION subscriptionVersionModify to NPAC SMS Simulator. The NPAC SMS Simulator locally sets the subscriptionVersionNPAC attributes values for the instance to be modified, sets the instance's subscriptionVersionStatus to 'sending' and responds to the M-ACTION. The NPAC SMS Simulator emulates receiving positive responses from all the LSMS's, locally sets the instance's subscriptionVersionStatus to 'active' and sends the subscriptionVersionStatusAttributeValueChange or

	subscriptionVersionRangeStatusAttributeValueChange notification to the SOA. 4. The SOA confirms the notification.
Expected Results	The SOA successfully initiate the transaction and handles the subsequent interactions with the NPAC SMS Simulator. The subscriptionVersionNPAC attributes are modified.

$16.5.4\,A2A.SOA.VAL.MODIFY.ACTIVE.TN-RANGE.Subscription Version$

Purpose	Verify a SOA can modify active subscription versions on the NPAC SMS Simulator using a TN range. The LSMSs are simulated. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	С
Severity Explanation	SOA must execute if supporting range modifications using the subscriptionVersionModify action.
Prerequisites	A2A.SOA.VAL.MODIFY.ACTIVE.SubscriptionVersion A range of active subscription versions exists.
Procedure	 The SOA issues an M-ACTION subscriptionVersionModify to NPAC SMS Simulator, using a TN-Range. The NPAC SMS Simulator locally sets the subscriptionVersionNPAC attributes values for the instances to be modified, sets the instances' subscriptionVersionStatus attributes to 'sending' and responds to the M-ACTION. The NPAC SMS Simulator emulates receiving positive responses from all the LSMS's, locally sets the instances' subscriptionVersionStatus attributes to 'active' and sends the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange notification. The SOA confirms the notifications.
Expected Results	The SOA successfully initiate the transaction and handles the subsequent interactions with the NPAC SMS Simulator. The subscriptionVersionNPAC attributes for all the instances in the TN range are modified.

16.5.5 A2A.SOA.VAL.MODIFY.BYNPAC.ACTIVE.SubscriptionVersion

Purpose	To verify a SOA can handle subscription version modifications initiated by the NPAC SMS Simulator. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	R
Severity Explanation	Direct impact on ability to provide service.
Prerequisites	A subscription version had been created and activated.
Procedure	 The NPAC SMS Simulator locally M-SETs the subscriptionVersionNPAC attributes values for the instance to be modified and the subscriptionVersionStatus to 'sending'. The NPAC SMS Simulator emulates receiving positive responses from all the LSMSs and locally sets the instance's

	subscriptionVersionStatus to 'active'. 3. The NPAC SMS Simulator issues the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange
	notification with the subscriptionVersionStatus set to 'active'. 4. The SOA confirms the subscriptionVersionStatusAttributeValueChange notification.
Expected Results	New Service Provider SOA successfully handles the interactions with the NPAC SMS Simulator resulting from modifying the instance. The subscriptionVersionNPAC attributes are modified.

16.5.6 A2A.SOA.VAL.MODIFY.PARTFAIL.SubscriptionVersion

Purpose	To verify a SOA can handle a modify action for an active subscription version where one LSMS fails the broadcast. The
	subscription version status will be set to 'active' and the Failed
	Service Provider List updated. The LSMSs are simulated. This test
	case must be executed twice if a SOA is supporting both
	"individual" and "range/list" notifications.
Severity	R
Severity Explanation	Direct impact on ability to provide service.
Prerequisites	A subscription version had been created and activated.
Procedure	 The SOA issues an M-ACTION subscriptionVersionModify to the NPAC SMS Simulator. The NPAC SMS Simulator locally sets the subscriptionVersionNPAC attributes values for the instance to be modified, updates the subscriptionVersionStatus to 'sending' and sends the M-ACTION response. The NPAC SMS Simulator emulates receiving positive responses from all but one LSMS, updates the Failed Service Provider List with the failed LSMS, locally sets the instance's subscriptionVersionStatus to 'active' and sends a subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange notification. The SOA confirms the notification.
Expected Results	The SOA successfully initiate the transaction and handles the subsequent interactions with the NPAC SMS Simulator. The subscriptionVersionNPAC attributes are modified.
	subscription version vi AC attributes are mounted.

16.5.7 A2A.SOA.VAL.MODIFY.FAIL.SubscriptionVersion

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Purpose	To verify a SOA can handle the condition where the final status of
,	the version to be modified is set to 'active', and the
	subscriptionFailedSP-List is updated with all LSMSs in response to
	a failed modify active scenario. The LSMSs are simulated. This test
	case must be executed twice if a SOA is supporting both
	"individual" and "range/list" notifications.
Severity	R
Severity Explanation	Direct impact on ability to provide service.
Prerequisites	A subscription version had been created and activated.

Procedure	 The SOA issues an M-ACTION subscriptionVersionModify to the NPAC SMS Simulator. The NPAC SMS Simulator locally sets the subscriptionVersionNPAC attributes values for the instance to be modified, updates the instance's subscriptionVersionStatus to 'sending' and sends the M-ACTION response. The NPAC SMS Simulator emulates receiving negative responses from all the LSMSs and locally sets the instance's subscriptionVersionStatus to 'active', updates the Failed Service Provider List attribute and issues the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange notification.
	4. The SOA confirms the notification.
Expected Results	The SOA successfully initiates the transaction and handles the subsequent interactions with the NPAC SMS Simulator. The subscriptionVersionNPAC attributes are modified.

16.5.8 A2A.SOA.INV.MODIFY.PARTFAIL.NOSPLIST.SubscriptionVersion

To verify a SOA can handle the error condition where the final status of the subscription version to be modified is set to 'download-failed-partial', and the subscriptionFailedSP-List is not updated in response to a modify active version scenario. The LSMSs are simulated. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications. Severity Explanation Requirement does not exist. SOA may perform to verify error handling. Prerequisites A subscription version had been created and activated. Procedure 1. The SOA issues an M-ACTION subscriptionVersionModify to NPAC SMS Simulator. 2. The NPAC SMS Simulator locally sets the subscriptionVersionNPAC attributes values for the instance to be modified, updates the instance's subscriptionVersionStatus to 'sending' and sends the M-ACTION response. 3. The NPAC SMS Simulator emulates receiving a negative response from one LSMS, locally sets the instance's subscriptionVersionStatus to 'download-failed-partial', does not update the Failed Service Provider List attribute and sends the subscriptionVersionStatus Attribute ValueChange or subscriptionVersionRangeStatusAttributeValueChange notification. Expected Results To verify a SOA handles the subscriptionVersionStatus AttributeValueChange notification.		
Severity Explanation Requirement does not exist. SOA may perform to verify error handling.	Purpose	status of the subscription version to be modified is set to 'download-failed-partial', and the subscriptionFailedSP-List is not updated in response to a modify active version scenario. The LSMSs are simulated. This test case must be executed twice if a SOA is
handling. A subscription version had been created and activated. Procedure 1. The SOA issues an M-ACTION subscriptionVersionModify to NPAC SMS Simulator. 2. The NPAC SMS Simulator locally sets the subscriptionVersionNPAC attributes values for the instance to be modified, updates the instance's subscriptionVersionStatus to 'sending' and sends the M-ACTION response. 3. The NPAC SMS Simulator emulates receiving a negative response from one LSMS, locally sets the instance's subscriptionVersionStatus to 'download-failed-partial', does not update the Failed Service Provider List attribute and sends the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange notification. 4. The SOA confirms the notification. Expected Results The SOA handles the	Severity	11 9
Procedure 1. The SOA issues an M-ACTION subscriptionVersionModify to NPAC SMS Simulator. 2. The NPAC SMS Simulator locally sets the subscriptionVersionNPAC attributes values for the instance to be modified, updates the instance's subscriptionVersionStatus to 'sending' and sends the M-ACTION response. 3. The NPAC SMS Simulator emulates receiving a negative response from one LSMS, locally sets the instance's subscriptionVersionStatus to 'download-failed-partial', does not update the Failed Service Provider List attribute and sends the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange notification. 4. The SOA confirms the notification. Expected Results The SOA handles the	Severity Explanation	
NPAC SMS Simulator. 2. The NPAC SMS Simulator locally sets the subscriptionVersionNPAC attributes values for the instance to be modified, updates the instance's subscriptionVersionStatus to 'sending' and sends the M-ACTION response. 3. The NPAC SMS Simulator emulates receiving a negative response from one LSMS, locally sets the instance's subscriptionVersionStatus to 'download-failed-partial', does not update the Failed Service Provider List attribute and sends the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange notification. 4. The SOA confirms the notification. **Expected Results** The SOA handles the	Prerequisites	A subscription version had been created and activated.
Expedica results	Procedure	 NPAC SMS Simulator. The NPAC SMS Simulator locally sets the subscriptionVersionNPAC attributes values for the instance to be modified, updates the instance's subscriptionVersionStatus to 'sending' and sends the M-ACTION response. The NPAC SMS Simulator emulates receiving a negative response from one LSMS, locally sets the instance's subscriptionVersionStatus to 'download-failed-partial', does not update the Failed Service Provider List attribute and sends the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange notification. The SOA confirms the notification.
	Expected Results	The SOA handles the subscriptionVersionStatusAttributeValueChange notification.

16.5.9 A2A.SOA.INV.MODIFY.ACTIVE.NOTMISS.SubscriptionVersion

Purpose	To verify a SOA can handle the error condition where the last

Severity Severity Explanation	notification of status change to active is not sent by the NPAC SMS Simulator in a modify active subscription version scenario. The LSMSs are simulated. O Requirement does not exist. SOA may perform to verify error handling.
Prerequisites	A subscription version had been created and activated.
Procedure	 The SOA issues an M-ACTION subscriptionVersionModify to the NPAC SMS Simulator. The NPAC SMS Simulator locally sets the subscriptionVersionNPAC attributes values for the instance to be modified, updates the instance's subscriptionVersionStatus to 'sending' and sends the M-ACTION response. The NPAC SMS Simulator emulates receiving positive responses from all the LSMS's and locally sets the instance's subscriptionVersionStatus to 'active', but does not send the corresponding notification. The SOA issues an M-GET request for the status of the subscription version and handles the response.
Expected Results	The SOA detects the missing notification and queries for the status of the subscription version.

16.5.10 A2A.SOA.INV.MODIFY.ATTRCHNG.NOTMISS.SubscriptionVersion

Purpose	To verify a SOA can handle the error condition where in a modify of a pending subscription version scenario, the attributeValueChange notification is never emitted but the attributes of the pending subscription version instance are modified. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	0
Severity Explanation	Requirement does not exist. SOA may perform to validate error handling.
Prerequisites	A pending subscription version had been created.
Procedure	 The SOA issues an M-ACTION subscriptionVersionModify to the NPAC SMS Simulator. The NPAC SMS Simulator locally sets the subscriptionVersionNPAC attributes values for the instance to be modified and responds to the M-ACTION. No attributeValueChange or subscriptionVersionRangeAttributeValueChange notification is sent. The SOA issues an M-GET request for the attributes of the subscription version to be modified and handles the response.
Expected Results	The SOA detects the missing notification and queries for the status of the version.

16.5.11 A2A.SOA.INV.MODIFY.ATTRSAME.NOTMISS.SubscriptionVersion

Purpose	To verify a SOA can handle the error condition where in a modify
·	of a pending subscription version scenario, the

	attributeValueChange notification is never emitted and the attributes of the pending subscription version instance are not modified. This test case must be executed twice if a SOA is supporting both
	"individual" and "range/list" notifications.
Severity	0
Severity Explanation	Requirement does not exist. SOA may perform to validate error handling.
Prerequisites	A pending subscription version had been created.
Procedure	 The SOA issues an M-ACTION subscriptionVersionModify to NPAC SMS Simulator. The NPAC SMS Simulator responds to the M-ACTION, but does not set the subscriptionVersionNPAC attributes values for the instance to be modified, nor send the corresponding attributeValueChange or subscriptionVersionRangeAttributeValueChange notification to the SOA. The SOA issues an M-GET request for the attributes of the subscription version to be modified and handles the response which shows that the attributes are still the same. The SOA re-issues the M-ACTION subscriptionVersionModify to NPAC SMS Simulator. The NPAC SMS Simulator updates the attribute values locally, responds to the M-ACTION and sends the attributeValueChange notification. The SOA confirms the attributeValueChange notification.
Expected Results	The SOA detects the missing notification and queries for the subscription version. Upon figuring out that the attribute did not
	change, the action is re-issued and processing completes normally.

16.5.12 A2A.SOA.VAL.MODIFY.PEND.TN-RANGE.SubscriptionVersion

Purpose	Verify a SOA can modify pending subscription versions on the NPAC SMS Simulator using a TN range. The LSMSs are simulated. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	C
Severity Explanation	SOA must execute if supporting range modifications using the subscriptionVersionModify action.
Prerequisites	A2A.SOA.VAL.MODIFY.PEND.SubscriptionVersion A range of pending active subscription versions exists.
Procedure	 The SOA issues an M-ACTION subscriptionVersionModify to NPAC SMS Simulator, using a TN-Range. The NPAC SMS Simulator locally sets the subscriptionVersionNPAC attributes values for the instances to be modified and responds to the M-ACTION. NPAC SMS Simulator issues the attributeValueChange or subscriptionVersionRangeAttributeValueChange notification containing the updated attributes. The SOA confirms the notification(s).
Expected Results	The SOA successfully initiate the transaction and handles the subsequent interactions with the NPAC SMS Simulator. The subscriptionVersionNPAC attributes for all the instances in the TN range are modified.

16.6 <u>Subscription Version Cancel Test Cases</u>

16.6.1 A2A.SOA.VAL.CANCEL.SubscriptionVersion

Purpose	To verify the SOA can initiate a cancel request of a pending subscription version. The Old Service Provider SOA is simulated. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	R
Severity Explanation	Impacts ability to provide service.
Prerequisites	A non-concurred pending subscription version has been created.
Procedure	The New Service Provider SOA issues a subscriptionVersionCancel M-ACTION request to the NPAC SMS Simulator. The NPAC SMS Simulator locally sets the subscriptionVersionStatus of the instance to be canceled to 'canceled', responds to the M-ACTION and issues the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange notification. The New Service Provider SOA confirms the notification.
Expected Results	The New Service Provider SOA successfully initiates the transaction and handles the subsequent interactions with the NPAC SMS Simulator. The created subscriptionVersionNPAC instance will have a status of canceled.

16.6.2 A2A.NSOA.VAL.CANCEL.BYOSOA.SubscriptionVersion

Purpose	To verify the New Service Provider SOA can handle the cancellation of a pending subscription version by the simulated Old Service Provider SOA. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	R
Severity Explanation	Impacts ability to provide service.
Prerequisites	A concurred, pending subscription version has been created.
Procedure	 The simulated Old Service Provider SOA issues a request to cancel a pending subscription version to the NPAC SMS Simulator. The NPAC SMS Simulator locally sets the subscriptionVersionStatus of the instance to be canceled to 'cancel-pending', responds to the Old Service Provider and issues the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange notification. The New Service Provider SOA confirms the notification. The New Service Provider SOA issues the subscriptionVersionNewSP-CancellationAcknowledge M-ACTION request.

	5. The NPAC SMS Simulator responds to the M-ACTION request from the New Service Provider SOA, emulates receiving the Old Service Provider SOA's cancellation acknowledge request, locally sets the subscriptionVersionStatus to 'canceled', and sends the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange
	notification. 6. The New Service Provider SOA confirms the notification.
Expected Results	The New Service Provider SOA successfully handles the interactions with the NPAC SMS Simulator. The pending
	subscriptionVersionNPAC instance will have a final status of canceled.

16.6.3 A2A.NSOA.VAL.CANCEL.TN-RANGE.SubscriptionVersion

Purpose	To verify the New Service Provider SOA can initiate a cancel request of pending subscription versions using a TN Range. The Old Service Provider SOA is simulated. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	С
Severity Explanation	The SOA must perform if ranges are part of their implementation.
Prerequisites	A2A.NSOA.VAL.CANCEL.SubscriptionVersion
Procedure	 The New Service Provider SOA issues a subscriptionVersionCancel M-ACTION request to the NPAC SMS Simulator with a TN Range. The NPAC SMS Simulator locally sets the subscriptionVersionStatus of the instances to be canceled to 'cancel-pending', responds to the M-ACTION and issues the subscriptionVersionStatusAttributeValueChange notifications. The New Service Provider SOA confirms the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange notifications. The New Service Provider SOA issues the subscriptionVersionNewSP-CancellationAcknowledge M-ACTION for a TN-Range or issues an action for each TN. The NPAC SMS Simulator responds to the New Service Provider SOA's action(s), emulates receiving the Old Service Provider SOA's cancellation acknowledge requests, locally sets the subscriptionVersionStatus attributes to 'canceled', and issues the subscriptionVersionStatus attribute to 'canceled', and issues the subscriptionVersionRangeStatusAttributeValueChange notifications. The New Service Provider SOA confirms each notification received.
Expected Results	The New Service Provider SOA successfully initiates the transaction and handles the subsequent interactions with the NPAC SMS Simulator. The subscriptionVersionNPAC instances will have a final status of 'canceled'.
	a mai states of canceled.

16.6.4 A2A.OSOA.VAL.CANCEL.SubscriptionVersion

Purpose	To verify the Old Service Provider SOA can initiate a cancel request of a pending subscription version. The New Service Provider SOA is simulated. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	R
Severity Explanation	Impacts ability to provide service.
Prerequisites	A pending subscription version has been created.
Procedure	 The Old Service Provider SOA issues a subscriptionVersionCancel M-ACTION request to the NPAC SMS Simulator. The NPAC SMS Simulator locally sets the subscriptionVersionStatus of the instance to be canceled to 'cancel-pending', responds to the M-ACTION and issues the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange notification. The Old Service Provider SOA confirms the notification. The Old Service Provider SOA issues the subscriptionVersionOldSP-CancellationAcknowledge M-ACTION request. The NPAC SMS Simulator responds to the action, emulates receiving the New Service Provider SOA's cancellation acknowledge request, locally sets the subscriptionVersionStatus to 'canceled', and issues the subscriptionVersionStatusAttributeValueChange notification. The Old Service Provider SOA confirms the notification.
Expected Results	The Old Service Provider SOA successfully initiates the transaction
LAPOOLOG NOSGILS	and handles the subsequent interactions with the NPAC SMS
	Simulator. The created subscriptionVersionNPAC instance will have
	a final status of 'canceled'.

16.6.5 A2A.OSOA.VAL.CANCEL.BYNSOA.SubscriptionVersion

Purpose	To verify the Old Service Provider SOA can handle the cancellation of a pending subscription version by the simulated New Service Provider SOA. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	R
Severity Explanation	Impacts ability to provide service.
Prerequisites	A pending subscription version has been created.
Procedure	The simulated New Service Provider SOA issues a request to cancel a pending subscription version to the NPAC SMS Simulator. The NPAC SMS Simulator locally sets the subscriptionVersionStatus of the instance to be canceled to 'cancel-pending', responds to the New Service Provider SOA request and issues the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange notification.

	3. The Old Service Provider SOA confirms the notification.
	4. The Old Service Provider SOA issues the
	subscriptionVersionOldSP-CancellationAcknowledge M-
	ACTION request.
	5. The NPAC SMS Simulator responds to the Old Service
	Provider SOA's action, emulates receiving the New Service
	Provider SOA's cancellation acknowledge request, locally sets
	the subscriptionVersionStatus to 'canceled', and issues the
	subscriptionVersionStatusAttributeValueChange or
	subscriptionVersionRangeStatusAttributeValueChange
	notification.
	6. The Old Service Provider SOA confirms the notification.
Expected Results	The Old Service Provider SOA successfully handles the interactions
	with the NPAC SMS Simulator. The pending
	subscriptionVersionNPAC instance will have a status of 'canceled'.

16.6.6 A2A.OSOA.VAL.CANCEL.TN-RANGE.SubscriptionVersion

Purpose	To verify the Old Service Provider SOA can initiate a cancel request of a set of pending subscription versions using a TN Range. The New Service Provider SOA is simulated. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	С
Severity Explanation	Required if the SOA implementation supports TN Ranges.
Prerequisites	A2A.OSOA.VAL.CANCEL.SubscriptionVersion
Procedure	 The Old Service Provider SOA issues a subscriptionVersionCancel M-ACTION request to the NPAC SMS Simulator with a TN Range. The NPAC SMS Simulator locally sets the subscriptionVersionStatus of the instances to be canceled to 'cancel-pending', responds to the M-ACTION and issues the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange notifications. The Old Service Provider SOA confirms each notification received. The Old Service Provider SOA issues the subscriptionVersionOldSP-CancellationAcknowledge M-ACTION requests for each version or by TN-Range. The NPAC SMS Simulator responds to the M-ACTION, emulates receiving the New Service Provider SOA's cancellation acknowledge requests, locally sets the subscriptionVersionStatus attributes to 'canceled', and issues the subscriptionVersionStatus attribute ValueChange or subscriptionVersionRangeStatusAttributeValueChange notification(s). The Old Service Provider SOA confirms each notification received.
Expected Results	The Old Service Provider SOA successfully initiates the transaction and handles the subsequent interactions with the NPAC SMS Simulator. The created subscriptionVersionNPAC instances will have the final status of 'canceled'.

16.6.7 A2A.OSOA.VAL.CANCEL.NOCONC.SubscriptionVersion

Purpose Severity	To verify the Old Service Provider SOA can handle a subscription version going to the canceled state because the simulated New Service Provider SOA did not issue the second create within the concurrence window. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity Explanation	Impacts ability to provide service.
Prerequisites	MOC.SOA.CAP.ACT.subscriptionVersionOldSP-Create-Initial
Procedure	 The Old Service Provider SOA issues the M-ACTION SubscriptionVersionOldSP-Create. the NPAC SMS Simulator creates the local subscriptionVersionNPAC object, sends the M-ACTION response to the Old Service Provider SOA and issues the objectCreationor subscriptionVersionRangeObjectCreation notification. The Old Service Provider SOA confirms the notification sent by the NPAC SMS Simulator. The NPAC SMS Simulator emulates never receiving the second create from the New Service Provider SOA, locally sets the subscriptionVersionStatus to 'canceled', and issues the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange notification. The Old Service Provider SOA confirms the notification.
Expected Results	The Old Service Provider SOA successfully handles the interactions with the NPAC SMS Simulator. The created subscriptionVersionNPAC instance will have a final status of 'canceled'.

16.6.8 A2A.NSOA.VAL.CANCEL.BYNPAC.SubscriptionVersion

Purpose	To verify the New Service Provider SOA can handle a subscription version being canceled by the NPAC SMS Simulator. The Old Service Provider SOA is simulated. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	R
Severity Explanation	Direct impact on ability to provide service.
Prerequisites	All subscription version create test cases are complete.
Procedure	The NPAC SMS Simulator locally sets the subscriptionVersionStatus of an existing 'pending' version to 'cancel-pending', and issues the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange notification. The New Service Provider SOA confirms the notification. The New Service Provider SOA issues the

	subscriptionVersionNewSP-CancellationAcknowledge M-
	ACTION request.
	4. The NPAC SMS Simulator responds to the M-ACTION,
	emulates receiving the Old Service Provider SOA's cancellation
	acknowledge request, locally sets the subscriptionVersionStatus
	to 'canceled', and issues the
	subscriptionVersionStatusAttributeValueChange or
	subscriptionVersionRangeStatusAttributeValueChange
	notification.
	5. The New Service Provider SOA confirms the notification.
Expected Results	The New Service Provider SOA successfully handles the
	interactions with the NPAC SMS Simulator. The created
	subscriptionVersionNPAC instance will have a final status of
	'canceled'.

16.6.9 A2A.OSOA.VAL.CANCEL.BYNPAC.SubscriptionVersion

Purpose	To verify the Old Service Provider SOA can handle a subscription version being canceled by the NPAC SMS Simulator. The New Service Provider SOA is simulated. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications. R
Severity	
Severity Explanation	Direct impact on ability to provide service.
Prerequisites	All subscription version create test cases are complete.
Procedure	 The NPAC SMS Simulator locally sets the subscription VersionStatus of an existing subscription version from 'pending' to 'cancel-pending' and issues the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange notification. The Old Service Provider SOA confirms the notification. The Old Service Provider SOA issues the subscriptionVersionOldSP-CancellationAcknowledge M-ACTION request. The NPAC SMS Simulator responds to the M-ACTION, emulates receiving the New Service Provider SOA's cancellation acknowledge request, locally sets the subscriptionVersionStatus to 'canceled' and issues the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange notification. The Old Service Provider SOA confirms the notification.
Expected Results	The Old Service Provider SOA successfully handles the interactions with the NPAC SMS Simulator. The created subscriptionVersionNPAC instance will have a final status of
	'canceled'.

16.6.10 A2A.NSOA.VAL.CANCEL.ACKREQ.SubscriptionVersion

Purpose Verify the New Service Provider SOA will respond to the

Severity	notification subscriptionVersionCancellationAcknowledgeRequest with the action subscriptionVersionNewSP-CancellationAcknowledge. The Old Service Provider SOA is simulated. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications. R
Severity Explanation	Impacts ability to provide service
Prerequisites	A2A.NSOA.VAL.CANCEL.SubscriptionVersion A cancel-pending subscription version exists.
Procedure	 The NPAC SMS Simulator will request the New Service Provider SOA acknowledge an existing 'cancel-pending' subscription version by sending the notification for subscriptionVersionCancellationAcknowledgeRequest or subscriptionVersionRangeCancellationAcknowledgeRequest to the SOA. The New Service Provider SOA confirms the notification. The New Service Provider SOA sends the subscriptionVersionNewSP-CancellationAcknowledge action in response to the notification. The NPAC SMS Simulator responds to the M-ACTION, locally sets the version status to 'canceled' and issues the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange notification. The New Service Provider SOA confirms the subscriptionVersionStatusAttributeValueChange notification.
Expected Results	The New Service Provider SOA successfully handles the interactions with the NPAC SMS Simulator. The created subscriptionVersionNPAC instance will have a status of 'canceled'.

16.6.11 A2A.OSOA.VAL.CANCEL.ACKREQ.SubscriptionVersion

Purpose	Verify the Old Service Provider SOA will respond to the notification subscriptionVersionCancellationAcknowledgeRequest with the action subscriptionVersionOldSP-CancellationAcknowledge. The New Service Provider SOA is simulated. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	R
Severity Explanation	Impacts ability to provide service.
Prerequisites	A2A.OSOA.VAL.CANCEL.SubscriptionVersion. A cancel-pending subscription version exists.
Procedure	The NPAC SMS Simulator will request that the Old Service Provider SOA acknowledge an existing 'cancel-pending' subscription version by sending the notification for subscriptionVersionCancellationAcknowledgeRequest or subscriptionVersionRangeCancellationAcknowledgeRequest to the SOA. The Old Service Provider SOA confirms the notification. The Old Service Provider SOA issues the

	subscriptionVersionOldSP-CancellationAcknowledge action in response to the notification. 4. The NPAC SMS Simulator responds to the action, locally sets the version status to 'canceled' and sends the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange
	notification. 5. The Old Service Provider SOA confirms the notification.
Expected Results	The Old Service Provider SOA successfully handles the interactions
	with the NPAC SMS Simulator. The created subscriptionVersionNPAC instance will have a status of 'canceled'.

16.6.12 A2A.NSOA.INV.CANCEL.CONFLICT.SubscriptionVersion

	TV:07 (TV0EE:00TT E101:000001ptionVoloion
Purpose	Verify the New Service Provider SOA can handle the error situation where a subscription version in the cancel-pending state goes to conflict because the simulated Old Service Provider SOA does not acknowledge the cancellation request. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	R
Severity Explanation	Direct impact on ability to provide service.
Prerequisites	A pending subscription version has been created.
Procedure	 The New Service Provider SOA issues a subscriptionVersionCancel M-ACTION request to the NPAC SMS Simulator. The NPAC SMS Simulator locally sets the subscriptionVersionStatus of the instance to be canceled to 'cancel-pending', responds to the M-ACTION and issues the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange notification. The New Service Provider SOA confirms the notification. The New Service Provider SOA issues the subscriptionVersionNewSP-CancellationAcknowledge M-ACTION request. The NPAC SMS Simulator responds to the M-ACTION, emulates not receiving the Old Service Provider SOA's cancellation acknowledge request, locally sets the subscriptionVersionStatus to 'conflict', and issues the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange notification. The New Service Provider SOA confirms the notification.
Expected Results	The New Service Provider SOA successfully initiates the
	transaction and handles the subsequent interactions with the NPAC SMS Simulator. The subscriptionVersionNPAC instance will have a final status of 'conflict'.
	mini sumus or commet.

16.6.13 A2A.NSOA.VAL.CANCEL.CANCELED.SubscriptionVersion

Purpose	Verify the New Service Provider SOA can handle the situation

	where it cancels a subscription version and the simulated Old
	Service Provider SOA does not acknowledge the cancellation request. The NPAC SMS Simulator cancels the subscription
	version. This test case must be executed twice if a SOA is
	supporting both "individual" and "range/list" notifications.
Coverity	R
Severity	
Severity Explanation	Direct impact on ability to provide service.
Prerequisites	A pending subscription version has been created.
Procedure	 The New Service Provider SOA issues a subscription Version Cancel M-ACTION request to the NPAC SMS Simulator. The NPAC SMS Simulator locally sets the subscription Version Status of the instance to be canceled to 'cancel-pending', responds to the M-ACTION, and issues the subscription Version Status Attribute Value Change or subscription Version Range Status Attribute Value Change notification. The New Service Provider SOA confirms the notification. The New Service Provider SOA issues the subscription Version New SP-Cancellation Acknowledge M-ACTION request. The NPAC SMS Simulator responds to the M-ACTION, emulates not receiving the Old Service Provider SOA's cancellation acknowledge request, locally sets the subscription Version Status to 'canceled', and the subscription Version Status Change Cause Code to "NPAC SMS Simulator automatic cancellation", and issues the corresponding subscription Version Status Attribute Value Change or subscription Version Range Status Attribute Value Change
	notification. 6. The New Service Provider SOA confirms the notification.
Expected Posuits	The New Service Provider SOA successfully initiates the
Expected Results	transaction and handles the subsequent interactions with the NPAC
	SMS Simulator. The subscription Version NPAC instance will have a
	final status of 'canceled'.
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16.6.14 A2A.OSOA.VAL.CANCEL.CONFLICT.SubscriptionVersion

Purpose	Verify the Old Service Provider SOA can handle the situation where a subscription version in the cancel-pending state goes to conflict because the simulated New Service Provider SOA does not acknowledge the cancellation request. The attribute subscriptionStatusChangeCauseCode will be set accordingly. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	R
Severity Explanation	Direct impact on ability to provide service.
Prerequisites	A pending subscription version has been created.
Procedure	The Old Service Provider SOA issues a subscriptionVersionCancel M-ACTION request to the NPAC SMS Simulator. The NPAC SMS Simulator locally sets the subscriptionVersionStatus of the instance to be canceled to

	'cancel-pending', and issues the
	subscriptionVersionStatusAttributeValueChange or
	subscriptionVersionRangeStatusAttributeValueChange
	notification.
	3. The Old Service Provider SOA confirms the notification.
	4. The Old Service Provider SOA issues the
	subscriptionVersionOldSP-CancellationAcknowledge M-
	ACTION request.
	5. The NPAC SMS Simulator responds to the M-ACTION,
	emulates not receiving the New Service Provider SOA's
	cancellation acknowledge request, locally sets the
	subscriptionVersionStatus to 'conflict', the
	subscriptionStatusChangeCauseCode to 'General Conflict' and
	issues the subscriptionVersionStatusAttributeValueChange or
	subscriptionVersionRangeStatusAttributeValueChange
	notification.
	6. The Old Service Provider SOA confirms the notification.
Expected Results	The Old Service Provider SOA successfully initiates the transaction
_	and handles the subsequent interactions with the NPAC SMS
	Simulator. The subscription Version NPAC instance will have a final
	status of 'conflict'.

16.6.15 A2A.NSOA.INV.CANCEL.PEND.SubscriptionVersion

Purpose	To verify the New Service Provider SOA can handle the error
-	condition where in response to the subscriptionVersionCancel action
	for a pending version, the NPAC SMS Simulator sets the version
	status to 'canceled' immediately. The Old Service Provider SOA is
	simulated. This test case must be executed twice if a SOA is
	supporting both "individual" and "range/list" notifications.
Severity	0
Severity Explanation	Requirement does not exist. SOA may perform to verify error handling.
Prerequisites	MOC.SOA.CAP.ACT.subscriptionVersionNewSP-Create-Initial
Procedure	1. The New Service Provider SOA issues the
	subscriptionVersionNewSP-Create M-ACTION request.
	2. The NPAC SMS Simulator creates the subscription version
	locally, sends the M-ACTION response to the New Service
	Provider SOA and issues the objectCreation or
	subscriptionVersionRangeObjectCreation notification.
	3. The New Service Provider SOA confirms the notification sent
	by the NPAC SMS Simulator.
	4. The simulated Old Service Provider SOA issues a local M-
	ACTION request to the NPAC SMS Simulator for
	subscriptionVersionOldSP-Create.
	5. The NPAC SMS Simulator subscription Version NPAC instance,
	responds to the M-ACTION and issues the
	attributeValueChange or
	subscriptionVersionRangeAttributeValueChange notification.
	6. The New Service Provider SOA confirms the notification sent
	by the NPAC SMS Simulator.
	7. The New Service Provider SOA issues a
	subscriptionVersionCancel M-ACTION request to the NPAC

	SMS Simulator for the pending version.
	8. The NPAC SMS Simulator responds to the M-ACTION, skips
	setting the 'cancel-pending' status and acknowledgment
	requests, locally sets the subscriptionVersionStatus of the
	instance to 'canceled', and issues the
	subscriptionVersionStatusAttributeValueChange or
	subscriptionVersionRangeStatusAttributeValueChange
	notification.
	9. The New Service Provider SOA confirms the notification.
Expected Results	The New Service Provider SOA detects an error.

16.6.16 A2A.OSOA.INV.CANCEL.CONFLICT.SubscriptionVersion

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Purpose	To verify the Old Service Provider SOA can handle the error
_	condition where in response to the subscriptionVersionCancel action
	for a version in conflict, the NPAC SMS Simulator sets the version
	status to 'canceled' immediately. The New Service Provider SOA is
	simulated. This test case must be executed twice if a SOA is
	supporting both "individual" and "range/list" notifications.
Severity	0
Severity Explanation	Requirement does not exist. SOA may perform to verify error
, ,	handling.
Prerequisites	A2A.OSOA.VAL.CREATE.CONFLICT.SubscriptionVersion
	A subscription version exists in a state of 'conflict' for which both
	the old and new service providers have concurred.
	the ord and new service providers have concurred.
Procedure	The Old Service Provider SOA issues a
	subscriptionVersionCancel M-ACTION request for to NPAC
	SMS Simulator for a subscription version in conflict.
	2. The NPAC SMS Simulator responds to the M-ACTION, locally
	sets the subscriptionVersionStatus of the instance to be
	canceled to 'canceled', and issues the
	subscriptionVersionStatusAttributeValueChange or
	subscriptionVersionRangeStatusAttributeValueChange
	notification.
	3. The Old Service Provider SOA confirms the notification.
Expected Results	The Old Service Provider SOA detects the error.

16.6.17 A2A.NSOA.INV.CANCEL.ACTIVE.SubscriptionVersion

Purpose	Verify the New Service Provider SOA can handle the error condition where a version to be canceled becomes active. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	0
Severity Explanation	Requirement does not exist. SOA may perform to verify error handling.
Prerequisites	A pending subscription version has been created.
Procedure	The New Service Provider SOA issues a subscriptionVersionCancel M-ACTION request for to NPAC

	SMS Simulator.
	2. The NPAC SMS Simulator locally sets the
	subscriptionVersionStatus of the instance to be canceled to
	'cancel-pending', responds to the M-ACTION and issues the
	subscriptionVersionStatusAttributeValueChange or
	subscriptionVersionRangeStatusAttributeValueChange
	notification.
	3. The New Service Provider SOA confirms the notification.
	4. The New Service Provider SOA issues the
	subscriptionVersionNewSP-CancellationAcknowledge M-
	ACTION request.
	5. The NPAC SMS Simulator locally sets the
	subscriptionVersionStatus to 'active', responds to the M-
	1 1
	ACTION request and issues the
	subscriptionVersionStatusAttributeValueChange or
	subscriptionVersionRangeStatusAttributeValueChange
	notification.
	6. The New Service Provider SOA confirms the notification.
Expected Results	The New Service Provider SOA detects the error.

16.7 <u>Subscription Version Disconnect Test Cases</u>

16.7.1 A2A.SOA.VAL.IMMDISC.SubscriptionVersion

Purpose	To test that a SOA can perform an immediate disconnect of an active subscription version.
Severity	
Severity Explanation	Direct impact on providing service. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Prerequisites	A subscription version had been created and activated.
Procedure	 The SOA issues a subscriptionVersionDisconnect M-ACTION to the NPAC SMS Simulator. The NPAC SMS Simulator locally sets the subscriptionVersionStatus to 'sending' and responds to the M-ACTION. The NPAC SMS Simulator emulates broadcasting the M-DELETEs and receiving successful responses from all LSMSs, sets the subscriptionVersionStatus to 'old' and issues the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange notification. The SOA confirms the notification.
Expected Results	The SOA successfully initiates the transaction and handles the subsequent interactions with the NPAC SMS Simulator. The subscriptionVersionNPAC instance has a final status of 'old'.

16.7.2 A2A.SOA.VAL.DEFDISC.SubscriptionVersion

Purpose	To verify a SOA can perform a deferred disconnect on an active subscription version. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	C
Severity Explanation	SOA must perform if implementing deferred disconnects.
Prerequisites	A subscription version had been created and activated.
Procedure	 The SOA issues a subscriptionVersionDisconnect M-ACTION with the subscriptionEffectiveReleaseDate attribute set. The NPAC SMS Simulator locally sets the subscriptionVersionStatus to 'disconnect-pending', responds to the M-ACTION and issues the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange notification. The SOA confirms the notification.
Expected Results	The SOA successfully initiates the transaction and handles the subsequent interactions with the NPAC SMS Simulator.

16.7.3 A2A.SOA.VAL.IMMDISC.BYNPAC.SubscriptionVersion

Purpose	To verify the SOA can handle an immediate disconnect of an active subscription version initiated by the NPAC SMS Simulator. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	R
Severity Explanation	Direct Impact on providing service.
Prerequisites	A subscription version had been created and activated.
Procedure	 The NPAC SMS Simulator locally initiates a disconnect and sets the subscriptionVersionStatus to 'sending'. The NPAC SMS Simulator emulates the broadcast and receiving successful responses from all LSMSs, locally sets the subscriptionVersionStatus to 'old' and issues a subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange notification. The SOA confirms the notification.
Expected Results	The SOA successfully handles interactions with the NPAC SMS Simulator. The subscriptionVersionNPAC instance has a final status of 'old'.

16.7.4 A2A.SOA.VAL.IMMDISC.FAIL.SubscriptionVersion

Purpose	To verify a SOA can handle an immediate disconnect where all of the LSMSs fail the delete requests. The subscription version status will be set to 'active' and the Failed Service Provider List will contain all the LSMSs. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	R
Severity Explanation	Direct Impact on providing service.

Prerequisites	A subscription version had been created and activated.
Procedure	 The SOA issues a subscriptionVersionDisconnect M-ACTION to the NPAC. The NPAC SMS Simulator locally sets the subscriptionVersionStatus to 'sending' and responds to the M-ACTION. The NPAC SMS Simulator emulates the broadcast to the LSMSs which results in the subscriptionVersionStatus being set back to 'active' because of a full failure and issues the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange notification. The SOA confirms the notification.
Expected Results	The SOA successfully initiates the transaction and handles the subsequent interactions with the NPAC SMS Simulator. The
	subscriptionVersionNPAC instance has a final status of 'active'.

16.7.5 A2A.SOA.VAL.IMMDISC.PARTFAIL.SubscriptionVersion

Purpose Severity	To verify a SOA can handle the scenario where an immediate disconnect results in a partially-failed subscription version because one LSMS fails the broadcast. The LSMSs are simulated. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications. R
Severity Explanation	Direct Impact on providing service.
Prerequisites	A subscription version had been created and activated.
Procedure	 The SOA issues a subscription Version Disconnect M-ACTION to the NPAC SMS Simulator. The NPAC SMS Simulator locally sets the subscription Version Status to 'sending' and responds to the M-ACTION. The NPAC SMS Simulator emulates receiving a negative response from one LSMS and updates the subscription Failed SP-List with its ID, locally sets the subscription Version Status to 'partial-download-failed', and issues the subscription Version Status Attribute Value Change or subscription Version Range Status Attribute Value Change notification. The SOA confirms the notification.
Expected Results	The SOA successfully initiates the transaction and handles the subsequent interactions with the NPAC SMS Simulator. The subscriptionVersionNPAC instance has a final status of 'partial-download-failed'.

$16.7.6\,A2A.SOA.VAL.IMMDISC.TN-RANGE.Subscription Version$

Purpose	Verify a SOA can perform an immediate disconnect of a range of
'	subscription versions. This test case must be executed twice if a
	SOA is supporting both "individual" and "range/list" notifications.

Severity	С
Severity Explanation	Execute test case if SOA supports range disconnects.
Prerequisites	A range of subscription versions exists.
Procedure	 The SOA issues an M-ACTION subscriptionVersionDisconnect to the NPAC. The NPAC SMS Simulator responds to the M-ACTION, emulates receiving the responses from all the LSMSs, locally sets the subscriptionVersionStatus to 'old', and emits the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange notification. The SOA handles the notification and confirms it.
Expected Results	The SOA successfully initiates the transaction and handles the subsequent interactions with the NPAC simulator. The subscriptionVersionNPAC instances have a status of 'old'.

16.7.7 A2A.SOA.INV.IMMDISC.ACT.OLD.SubscriptionVersion

Purpose	To verify a SOA can handle the scenario where an immediate
	disconnect results in the NPAC SMS Simulator setting the
	subscription version status to old immediately. This test case must
	be executed twice if a SOA is supporting both "individual" and
	"range/list" notifications.
Severity	0
Severity Explanation	Requirement does not exist. SOA may perform to verify error
	handling.
Prerequisites	A subscription version had been created and activated.
Procedure	1. The SOA issues a subscriptionVersionDisconnect M-ACTION
	to the NPAC SMS Simulator.
	2. The NPAC SMS Simulator locally sets the
	subscriptionVersionStatus to 'old', responds to the M-ACTION
	and issues the subscriptionVersionStatusAttributeValueChange
	or subscriptionVersionRangeStatusAttributeValueChange
	notification.
	3. The SOA confirms the notification.
Expected Results	The SOA detects the error.

16.7.8 A2A.SOA.INV.IMMDISC.OLD.SubscriptionVersion

Purpose	To verify a SOA can handle the error condition where for an
•	immediate disconnect, the final status is set to 'old' but the Failed
	Service Provider List contains the names of all the LSMSs. The
	LSMSs are simulated. This test case must be executed twice if a
	SOA is supporting both "individual" and "range/list" notifications.
Severity	0
Severity Explanation	Requirement does not exist. SOA may perform to verify error
, , , , , , , , , , , , , , , , , , ,	handling.
Prerequisites	A subscription version had been created and activated.
Procedure	The SOA issues a subscriptionVersionDisconnect M-ACTION
	to the NPAC SMS Simulator.

	 The NPAC SMS Simulator locally sets the subscriptionVersionStatus to 'sending' and responds to the M-ACTION response. The NPAC SMS Simulator emulates receiving negative responses from all the LSMSs, locally sets the subscriptionVersionStatus to 'old' instead of 'failed', updates the Failed Service Provider List with all LSMSs, and issues the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange notification. The SOA confirms the notification.
Expected Results	The SOA detects the error.

16.7.9 A2A.SOA.INV.IMMDISC.FAILED.SubscriptionVersion

Purpose	To verify a SOA can handle the error condition where on an immediate disconnect, the final status is set to 'failed' but the Failed Service Provider List contains the name of only one LSMS. The LSMSs are simulated. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	0
Severity Explanation	Requirement does not exist. SOA may perform to verify error handling.
Prerequisites	A subscription version had been created and activated.
Procedure	 The SOA issues a subscriptionVersionDisconnect M-ACTION to the NPAC SMS Simulator. The NPAC SMS Simulator locally sets the subscriptionVersionStatus to 'sending' and responds to the M-ACTION. The NPAC SMS Simulator emulates receiving a negative response from one LSMS locally sets the subscriptionVersionStatus to 'failed' instead of 'download-failed-partial', updates the Failed Service Provider List with the failed LSMS, and issues the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange notification. The SOA confirms the notification.
Expected Results	The SOA detects the error.

16.7.10 A2A.SOA.INV.IMMDISC.OLD.FAILService Provider.SubscriptionVersion

1 To vide 1. Edubori piloti veroloti	
Purpose	To verify a SOA can handle the error condition where on an immediate disconnect, the final status is set to 'old' and the Failed Service Provider List contains the name of one LSMS. The LSMSs are simulated. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	0
Severity Explanation	Requirement does not exist.
Prerequisites	A subscription version had been created and activated.

Procedure	The SOA issues a subscriptionVersionDisconnect M-ACTION
	to the NPAC SMS Simulator.
	2. The NPAC SMS Simulator locally sets the
	subscriptionVersionStatus to 'sending', and responds to the M-ACTION.
	3. The NPAC SMS Simulator emulates receiving a negative response from one LSMS, locally sets the
	subscriptionVersionStatus to 'old' instead of 'download-failed-
	partial', updates the Failed Service Provider List with the failed
	LSMS, and issues the
	subscriptionVersionStatusAttributeValueChange or
	subscriptionVersionRangeStatusAttributeValueChange
	notification.
	4. The SOA handles the notification.
Expected Results	The SOA detects the error.

16.7.11 A2A.SOA.VAL.CANCEL.DISCPEND.SubscriptionVersion

Purpose	To verify a New Service Provider SOA can handle the subscription version cancellation scenario, where a disconnect-pending version is canceled. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	C
Severity Explanation	Direct Impact on providing service. SOA must perform if deferred disconnect is supported.
Prerequisites	A disconnect-pending subscription version exists.
Procedure	 The New Service Provider SOA issues the subscriptionVersionCancel M-ACTION request for the disconnect-pending version. The NPAC SMS Simulator locally sets the subscriptionVersionStatus of the instance to 'active', responds to the M-ACTION and issues the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange notification. The New Service Provider SOA confirms the notification.
Expected Results	The New Service Provider SOA initiates the transaction, and handles the interactions with the simulator successfully. The final status of the subscription version is 'active'.

16.8 <u>Subscription Version Conflict Test Cases</u>

16.8.1 A2A.NSOA.VAL.CONFLICT.RESOLV.SubscriptionVersion

Purpose	To verify the New Service Provider SOA can handle the resolution of a subscription version conflict. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	R
Severity Explanation	Direct Impact on providing service.

Prerequisites	A subscription version with the subscription version status equal to 'conflict' exists.
Procedure	The NPAC SMS Simulator initiates the resolution of the conflict by locally setting the subscriptionVersionStatus to 'pending' and issues the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange notification. 2. The New Service Provider SOA confirms the notification.
Expected Results	The New Service Provider SOA handles the interactions with the NPAC SMS Simulator successfully. The subscription version status is now 'pending'.

16.8.2 A2A.NSOA.VAL.CONFLICT.RESOLV.BYNSOA.SubscriptionVersion

Prerequisites A sul	ct Impact on providing service. bscription version with subscription version status equal to flict' exists. The New Service Provider SOA initiates the resolution of the
Prerequisites A sul	bscription version with subscription version status equal to flict' exists. The New Service Provider SOA initiates the resolution of the
'con	flict' exists. The New Service Provider SOA initiates the resolution of the
Duo o o olivino	
2.	conflict state by sending a subscriptionVersionRemoveFromConflict M-ACTION request to the simulator. The NPAC SMS Simulator verifies the six hours tunable is not being violated, removes the conflict by locally setting the subscriptionVersionStatus to 'pending', responds to the M-ACTION and issues the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange notification. The New Service Provider SOA confirms the notification.
NPA NPA	New Service Provider SOA handles the interactions with the C SMS Simulator successfully. The subscription version status w 'pending'.

16.8.3 A2A.OSOA.VAL.CONFLICT.RESOLV.SubscriptionVersion

Purpose	To verify the Old Service Provider SOA can handle the resolution of
	a subscription version conflict. This test case must be executed
	twice if a SOA is supporting both "individual" and "range/list"
	notifications.
Severity	R
Severity Explanation	Direct Impact on providing service.
Prerequisites	A subscription version with the subscription version status equal to
	'conflict' exists.
Procedure	The NPAC SMS Simulator initiates the resolution of the
	conflict state by locally setting the subscriptionVersionStatus to

	 'pending', and issues the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange notification. The Old Service Provider SOA confirms the notification sent by the simulator.
Expected Results	The Old Service Provider SOA handles the interactions with the NPAC SMS Simulator successfully. The final subscription version status is 'pending'.

16.8.4 A2A.OSOA.VAL.CONFLICT.RESOLV.BYOSOA.SubscriptionVersion

Purpose Severity Severity Explanation	To verify the Old Service Provider SOA can handle the resolution of a subscription version conflict. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications. C Direct Impact on providing service. SOA must perform if using an M-SET.
Prerequisites	A2A.OSOA.VAL.CREATE.CONFLICT.SubscriptionVersion
Procedure	 The Old Service Provider SOA issues the subscriptionVersionOldSP-Create action with the subscriptionOldSP-Authorization set to 'false' and provides a subscriptionStatusChangeCauseCode value. The NPAC SMS Simulator creates the subscription version with a subscriptionVersionStatus of 'conflict', responds to the M-ACTION and issues the object creation or subscriptionVersionRangeObjectCreation notification. The Old Service Provider SOA confirms the notification. The Old Service Provider SOA initiates the resolution of the conflict state by sending an M-SET request with the subscriptionOldSP-Authorization set to 'true'. The NPAC SMS Simulator executes the M-SET request, sets the subscriptionVersionStatus to 'pending', sends the M-SET response, and issues the attributeValueChange or subscriptionVersionRangeAttributeValueChange notification and the subscriptionVersionStatusAttributeValueChange notification to the Old Service Provider SOA. The Old Service Provider SOA confirms both the notifications sent by the simulator.
Expected Results	The Old Service Provider SOA handles the interactions with the NPAC SMS Simulator successfully. The subscription version status
	is now 'pending'.

16.8.5 A2A.NSOA.VAL.CONFLICT.RESOLV.TN-RANGE.BYNSOA.SubscriptionVersion

Purpose	To verify the New Service Provider SOA can resolve a range of subscription versions in conflict. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	C

Severity Explanation	SOA must execute if supporting range conflict resolution using the
	subscriptionVersionRemoveFromConflict action.
Prerequisites	2 or more subscription versions with subscription version status
•	equal to 'conflict' exist.
Procedure	1. The New Service Provider SOA initiates the resolution of the conflict state by sending a
	subscriptionVersionRemoveFromConflict M-ACTION request
	to the simulator for a range of subscription versions.The NPAC SMS Simulator verifies the six hours tunable is not being violated, removes the conflict by locally setting the
	subscriptionVersionStatus to 'pending', responds to the M-ACTION and issues either the
	subscriptionVersionStatusAttributeValueChange or
	subscriptionVersionRangeStatusAttributeValueChange
	notification.
	3. The New Service Provider SOA confirms the notification(s).
Expected Results	The New Service Provider SOA handles the interactions with the
-	NPAC SMS Simulator successfully. The subscription version status
	is now 'pending'.

16.9 LSMS Test Cases

16.9.1 A2A.LSMS.VAL.ACTIVATE.BYNPAC.SubscriptionVersion

Purpose	To verify the LSMS can accept a subscription version for a new NPA-NXX which is activated by the NPAC SMS Simulator. The New Service Provider SOA and Old Service Provider SOA are simulated.
Severity	R
Severity Explanation	Direct Impact on providing service.
Prerequisites	All MOC test cases.
Procedure	 The NPAC SMS Simulator locally creates a subscription version for a new NPA-NXX and issues the subscriptionVersionNewNPA-NXX notification to the LSMS. The LSMS confirms the subscriptionVersionNewNPA-NXX notification. The NPAC SMS Simulator proceeds to activate the newly created version, sets its subscription version status to 'sending', and issues the M-CREATE request to the LSMS. The LSMS handles the M-CREATE request for the subscription version instance and provides a successful response. The NPAC SMS Simulator locally sets the subscription version status to 'active'.
Expected Results	The LSMS handles the notification, creates the subscriptionVersion locally and responds successfully to the NPAC SMS Simulator.

16.9.2 A2A.LSMS.VAL.MODIFY.BYNPAC.ACTIVE.SubscriptionVersion

Purpose	To verify a LSMS can handle subscription version modifications initiated by the NPAC SMS Simulator.
Severity	R
Severity Explanation	Direct Impact on providing service.

Prerequisites	A subscriptionVersion had been created and activated.
Procedure	 The NPAC SMS Simulator locally initiates the modification of an active subscription version. The status of that version is set to 'sending' by the NPAC SMS Simulator. The NPAC SMS Simulator then issues the M-SET request for the subscription version to the LSMS. The LSMS handles the M-SET request for the subscription Version attributes successfully and responds to the NPAC SMS Simulator. The NPAC SMS Simulator locally sets the subscription version status to 'active'.
Expected Results	The LSMS updates the subscription Version attributes locally and responds successfully to the NPAC SMS Simulator.

$16.9.3\,A2A.LSMS.VAL.IMMDISC.BYNPAC.Subscription Version$

Purpose	To verify the LSMS can handle an immediate disconnect of an active subscription version initiated by NPAC SMS Simulator.
Severity	R
Severity Explanation	Direct Impact on providing service.
Prerequisites	A subscriptionVersion had been created and activated.
Procedure	 The NPAC SMS Simulator locally initiates the immediate disconnect of an active subscription version. The status of that subscription version is set to 'sending' by the NPAC SMS Simulator. The NPAC SMS Simulator then issues the M-DELETE request for the subscription version to the LSMS. The LSMS handles the M-DELETE request for the subscription version successfully and responds to the NPAC SMS Simulator. The NPAC SMS Simulator locally sets the subscription version status to 'old'.
Expected Results	The LSMS deletes the subscriptionVersion locally and responds successfully to the NPAC SMS Simulator.

16.9.4 A2A.LSMS.VAL.CREATE.MULT.SubscriptionVersion

Purpose	To verify the LSMS can handle a create action for a group of subscription versions with the same routing information.
Severity	R
Severity Explanation	Direct Impact on providing service.
Prerequisites	A2A.LSMS.VAL.ACTIVATE.BYNPAC.SubscriptionVersion
Procedure	 The NPAC SMS Simulator locally initiates the creation and activation of five subscription versions with the same routing information. Their subscription version statuses are set to 'sending'. The NPAC SMS Simulator then issues the MACTION request subscriptionVersionLocalSMS-Create to the LSMS. The LSMS validates the M-ACTION request, and returns the response to the NPAC SMS Simulator. The LSMS locally creates the new versions specified by the action and issues the subscriptionVersionLocalSMS-

	CreateResults notification upon completion to the NPAC SMS Simulator. 4. The NPAC SMS Simulator confirms the notification and verifies the results.
Expected Results	The LSMS creates the subscription versions locally and responds successfully to the NPAC SMS Simulator.

16.9.5 A2A.LSMS.INV.CREATE.MULT.SubscriptionVersion

Purpose	To verify the LSMS can handle a create action for a group of
	subscription versions with the same routing information where one
	of the versions has an invalid TN.
Severity	0
Severity Explanation	Direct Impact on providing service. LSMS may perform to verify error handling.
Prerequisites	A2A.LSMS.VAL.CREATE.MULT.SubscriptionVersion
Procedure	 The NPAC SMS Simulator locally initiates the creation and activation of five subscription versions with the same routing information. Their statuses are set to 'sending'. The NPAC SMS Simulator then issues the M-ACTION request subscriptionVersionLocalSMS-Create, to create these versions on the LSMS. The action argument will contain a subscription version object with an invalid TN (7 digits instead of 10). The LSMS validates the M-ACTION request and returns the response to the NPAC SMS Simulator. The LSMS locally creates the new versions which have valid TNs as specified by the action, fails to create the invalid version, and issues the subscriptionVersionLocalSMS-CreateResults notification with a Failed TN List which includes the erroneous version's TN. The NPAC SMS Simulator confirms the notification and verifies the results.
Expected Results	The LSMS creates the valid subscription versions locally and identifies the erroneous version in the response to the NPAC SMS Simulator.

16.9.6 A2A.LSMS.INV.CREATE.UNKNOWN.NPA-NXX.SubscriptionVersion

Purpose	To verify the LSMS can handle the condition where it receives a create request for a subscription version with an NPA-NXX for which the subscriptionVersionNewNPA-NXX notification was
	never sent to that LSMS.
Severity	0
Severity Explanation	No requirements exist. LSMS may perform to verify the situation.
Prerequisites	A2A.LSMS.VAL.ACTIVATE.BYNPAC.SubscriptionVersion
Procedure	The NPAC SMS Simulator locally creates a subscription version for a new NPA-NXX, but does not issue the subscriptionVersionNewNPA-NXX notification. The NPAC SMS Simulator activates the new subscription version and sends an M-CREATE request for the subscription version to the LSMS.

	3. The LSMS handles the request, creates the version instance
	and responds successfully to the M-CREATE request.
Expected Results	The missing notification does not adversely affect the LSMS.

16.10 SOA WSMSC Data Test Cases (NANC 203)

16.10.1 A2A.NSOA.VAL.CREATE.WSMSC.SubscriptionVersion

Purpose	Verify the New Service Provider SOA can perform a create for a subscription version on the NPAC SMS Simulator with WSMSC DPC and SSN specified. The Old Service Provider SOA is simulated. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	C
Severity Explanation	Test case must be executed if the SOA will be supporting WSMSC data and the product supports new service provider create messages.
Prerequisites	None.
Procedure	 The New Service Provider SOA issues the M-ACTION subscriptionVersionNewSP-Create with WSMSC data. The NPAC SMS Simulator handles the local subscriptionVersionNPAC instance create, sends the M-ACTION response to the New Service Provider SOA and issues the objectCreation or subscriptionVersionRangeObjectCreation notification. The New Service Provider SOA handles the notification(s) sent by the NPAC SMS Simulator that contains the 'pending' state for the created versions and responds with the notification confirmation(s).
Expected Results	The New Service Provider SOA successfully initiates the subscriptionVersionNewSP-Create M-ACTION and handles the subsequent interactions with the NPAC SMS Simulator.

16.10.2 A2A.NSOA.VAL.MODIFY.WSMSC.SubscriptionVersion

Purpose	To verify a SOA can modify an active subscription's version WSMSC DPC and SSN. The LSMSs are simulated. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	C
Severity Explanation	Test case must be executed if the SOA will be supporting WSMSC data and the product supports subscription version modification.
Prerequisites	An active subscription version exists for the service provider.
Procedure	 The SOA issues an M-ACTION subscriptionVersionModify to NPAC SMS Simulator that modifies the WSMSC DPC and SSN, and handles the action response message from the NPAC SMS Simulator. The NPAC SMS Simulator locally sets the subscriptionVersionNPAC attributes values for the instance to be modified, and then it sets the instance's subscriptionVersionStatus to 'sending'. The NPAC SMS Simulator emulates receiving positive responses from all the SMSs and locally sets the instance's

	subscriptionVersionStatus to 'active'. 4. The SOA handles the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange notification for the 'active' status sent by the NPAC SMS Simulator, and responds with confirmation.
Expected Results	The SOA successfully initiates the subscriptionVersionModify M-ACTION and handles the subsequent interactions with the NPAC SMS Simulator.

16.10.3 A2A.SOA.VAL.QUERY.WSMSC.SubscriptionVersion

Purpose	To verify a SOA can query a subscription version with WSMSC
	DPC and SSN set.
Severity	0
Severity Explanation	Test case should be executed if the SOA will be supporting WSMSC
	data and subscription version query.
Prerequisites	SubscriptionVersionNPAC exists on the NPAC SMS Simulator with
,	WSMSC data.
Procedure	1. The SOA issues the M-GET for the specified subscription
	version with WSMSC data.
	2. The NPAC SMS Simulator responds with the M-GET result.
Expected Results	The SOA successfully initiates the M-GET and successfully handles
•	the M-GET result.

16.11 LSMS WSMSC Data Test Cases (NANC 203)

16.11.1 A2A.LSMS.VAL.CREATE.WSMSC.SubscriptionVersion

Purpose	To verify the LSMS can successfully process a subscription version create with WSMSC DPC and SSN data present.
Severity	С
Severity Explanation	Test case must be executed if the LSMS is supporting WSMSC data.
Prerequisites	
Procedure	 NPAC SMS Simulator sends M-CREATE request for the subscription version with WSMSC data. LSMS responds to the M-CREATE.
Expected Results	The LSMS accepts the M-CREATE and returns an M-CREATE response.

16.11.2 A2A.LSMS.VAL.CREATE.MULT.WSMSC.SubscriptionVersion

Purpose	To verify the LSMS can successfully process the M-ACTION subscriptionVersionLocalSMS-Create with WSMSC DPC and SSN data present and respond with the M-EVENT-REPORT, subscriptionVersionLocalSMS-ActionResults.
Severity	С
Severity Explanation	Test case must be executed if the LSMS is supporting WSMSC data.
Prerequisites	
Procedure	NPAC SMS Simulator sends M-ACTION

	subscriptionVersionLocalSMS-Create request with WSMSC data. 2. LSMS responds with an M-ACTION response. 3. LSMS sends M-EVENT-REPORT
	subscriptionVersionLocalSMS-ActionResults. 4. NPAC SMS Simulator confirms M-EVENT-REPORT.
Expected Results	The Local SMS receives the M-ACTION and the M-EVENT-REPORT and replies to both to the NPAC SMS Simulator.

16.11.3 A2A.LSMS.VAL.QUERY.SCOPED.WSMSC.SubscriptionVersion

Purpose	To verify the LSMS can successfully process a scoped and filtered M-GET request with a TN range for a subscription version with WSMSC DPC and SSN data present.
Severity	C
Severity Explanation	Test case must be executed if the LSMS is supporting WSMSC data.
Prerequisites	One or more subscriptionVersions exist on the Local SMS.
Procedure	 NPAC SMS Simulator sends a scoped and filtered M-GET request specifying a TN range that has WSMSC data. LSMS responds with linked getResults.
Expected Results	The LSMS processes the M-GET report and replies to the request with all the attributes for the instances.

16.11.4 A2A.LSMS.VAL.MODIFY.WSMSC.SubscriptionVersion

Purpose	To verify the LSMS can successfully process an M-SET request for
rarpose	a subscription version with WSMSC DPC and SSN data present.
Severity	C
Severity Explanation	Test case must be executed if the LSMS is supporting WSMSC
	data.
Prerequisites	A subscription Version exists on the Local SMS.
Procedure	1. NPAC SMS Simulator sends M-SET request for WSMSC data.
	2. LSMS responds to the M-SET.
Expected Results	The Local SMS receives the M-SET request and responds to the
_	NPAC SMS Simulator.

16.12 <u>Subscription Timer and Business Types (NANC 201 and 202)</u>

16.12.1 A2A.SOA.VAL.QUERY.SUBTIMER.SubscriptionVersion

Purpose	To test that a SOA can query a subscription version with
•	subscriptionTimerType value set.
Severity	0
Severity Explanation	Test case should be executed if the SOA will be supporting
	subscription timer data and subscription version query.
Prerequisites	SubscriptionVersionNPAC exists on the NPAC SMS Simulator with
•	subscriptionTimerType for the service provider.
Procedure	1. The SOA issues the M-GET for the specified subscription
	version with subscriptionTimerType.
	2. The NPAC SMS Simulator responds with the M-GET result.
Expected Results	The SOA successfully initiates the M-GET and successfully handles

the M-GET result.

16.12.2 A2A.SOA.VAL.QUERY.BUSTYPE.SubscriptionVersion

Purpose	To test that a SOA can query a subscription version with the
,	subscriptionBusinessType value set.
Severity	0
Severity Explanation	Test case should be executed if the SOA will be supporting business
	type data and subscription version query.
Prerequisites	SubscriptionVersionNPAC exists on the NPAC SMS Simulator with
-	subscriptionBusinessType.
Procedure	1. The SOA issues the M-GET for the specified subscription
	version with subscriptionBusinessType.
	2. The NPAC SMS Simulator responds with the M-GET result.
Expected Results	The SOA successfully initiates the M-GET and successfully handles
,	the M-GET result.

16.12.3 A2A.OSOA.VAL.NOT.subscriptionVersionOldSP-ConcurrenceRequest

Purpose	To test that a SOA can successfully handle the
•	subscriptionVersionOldSP-ConcurrenceRequest with the
	subscriptionTimerType and subscriptionBusinessType values
	included. This test case must be executed twice if a SOA is
	supporting both "individual" and "range/list" notifications.
Severity	С
Severity Explanation	Test case must be executed if the SOA will be supporting business
	type and/or subscription timer data.
Prerequisites	A subscription Version NPAC instance has been created on the NPAC
,	SMS Simulator with the service provider as the old service provider
	that has not concurred.
Procedure	1. NPAC SMS Simulator sends the subscriptionVersionOldSP-
	ConcurrenceRequest or subscriptionVersionRangeOldSP-
	ConcurrenceRequest M-EVENT-REPORT with
	subscriptionTimerType and subscriptionBusinessType.
	2. SOA confirms the M-EVENT-REPORT.
Expected Results	The SOA responds with the M-EVENT-REPORT confirmation.

16.12.4 A2A.OSOA.VAL.NOT.subscriptionVersionOldSPFinalConcurrence WindowExpiration

Purpose	To test that a SOA can successfully handle the subscriptionVersionOldSPFinalConcurrenceWindow with the subscriptionTimerType and subscriptionBusinessType values included. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	C
Severity Explanation	Test case must be run if the SOA will be supporting business type and/or subscription timer data.
Prerequisites	A subscriptionVersionNPAC instance has been created on the NPAC SMS Simulator where the service provider is the old service provider.

Procedure	NPAC SMS Simulator sends the subscriptionVersionOldSP- ConcurrenceRequest or subscriptionVersionRangeOldSP- ConcurrenceRequestM-EVENT-REPORT with
	subscriptionTimerType and subscriptionBusinessType. 2. SOA confirms the M-EVENT-REPORT.
Expected Results	The SOA responds with the M-EVENT-REPORT confirmation.

16.12.5 A2A.NSOA.VAL.NOT.subscriptionVersionNewSP-CreateRequest

Purpose	To test that a SOA can successfully handle the subscriptionVersionNewSP-CreateRequest with the subscriptionTimerType and subscriptionBusinessType values included. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	С
Severity Explanation	Test case must be executed if the SOA will be supporting business type and/or subscription timer data.
Prerequisites	A subscriptionVersionNPAC instance has been created on the NPAC SMS Simulator with the service provider as the new service provider.
Procedure	NPAC SMS Simulator sends the subscriptionVersionNewSP- CreateRequest or subscriptionVersionRangeNewSP- CreateRequestM-EVENT-REPORT with subscriptionTimerType and subscriptionBusinessType. SOA confirms the M-EVENT-REPORT.
Expected Results	The SOA responds with the M-EVENT-REPORT confirmation.

16.13 Missing Sending Notification Test Cases (NANC 207)

16.13.1 A2A.NSOA.VAL.ACTIVATE.NOTMISS.SubscriptionVersion

Purpose	To test that the New Service Provider SOA can handle the condition
·	where the 'sending' status change notification is never sent by the
	NPAC SMS Simulator in an activate subscription version scenario.
	The LSMSs are simulated. This test case must be executed twice if
	a SOA is supporting both "individual" and "range/list" notifications.
Severity	R
Severity Explanation	Test case must be run to ensure the new service provider SOA can
	correctly process the NPAC SMS Simulator notifications for a
	subscription version activate.
Prerequisites	Pending subscriptionVersionNPAC exists with the service provider
1	as the new service provider.
Procedure	1. The SOA issues the M-ACTION subscriptionVersionActivate
	to NPAC SMS Simulator, and handles the action response
	message from the NPAC SMS Simulator.
	2. The NPAC SMS Simulator locally sets the
	subscriptionVersionNPAC instance's subscriptionVersionStatus
	to 'sending'.
	3. The NPAC SMS Simulator does not send the notification for
	the 'sending' status
	subscriptionVersionStatusAttributeValueChange or
	subscriptionVersionRangeStatusAttributeValueChange.
	4. The NPAC SMS Simulator emulates receiving positive

	responses from all the SMSs and locally sets the instance's subscriptionVersionStatus to 'active'. 5. The SOA handles the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange notification for the 'active' status sent by the NPAC SMS Simulator, and responds with confirmation.
Expected Results	The new service provider SOA successfully issues the subscriptionVersionActivate M-ACTION and handles the subsequent interactions with the NPAC SMS Simulator.

16.13.2 A2A.OSOA.VAL.ACTIVATE.NOTMISS.SubscriptionVersion

	•
Purpose	To test that the Old Service Provider SOA can handle the condition where the 'sending' status change notification is never sent by the NPAC SMS Simulator in an activation of a subscription version scenario. The LSMSs and New SOA are simulated. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	R
Severity Explanation	Test case must be run to ensure the old service provider SOA can correctly process the NPAC SMS Simulator notifications for a subscription version activate.
Prerequisites	Pending subscription version exists with the service provider as the old service provider.
Procedure	 The simulated new service provider SOA issues the M-ACTION subscriptionVersionActivate to NPAC SMS Simulator, and handles the action response message from the NPAC SMS simulator. The NPAC SMS Simulator locally sets the subscriptionVersionNPAC instance's subscriptionVersionStatus to 'sending'. The NPAC SMS Simulator does not send the notification for the 'sending' status subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange. The NPAC SMS Simulator emulates receiving positive responses from all the SMSs and locally sets the instance's subscriptionVersionStatus to 'active'. The SOA handles the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange notification for the 'active' status sent by the NPAC SMS Simulator, and responds with confirmation.
Expected Results	The old service provider SOA can successfully handles the interactions for subscription version activation with the NPAC SMS Simulator.

16.13.3 A2A.SOA.VAL.MODIFY.ACTIVE.NOTMISS.SubscriptionVersion

Purpose	To test a SOA can handle the condition where the 'sending' status
	change notification is never sent by the NPAC SMS Simulator in a
	modify active subscription version scenario. The LSMSs are
	simulated. This test case must be executed twice if a SOA is

	supporting both "individual" and "range/list" notifications.
Severity	R
Severity Explanation	Test case must be run to ensure the service provider SOA can correctly process the NPAC SMS Simulator notifications for a modify active if the service provider supports modify active functionality.
Prerequisites	Active subscription version exists for the service provider.
Procedure	 The SOA issues the M-ACTION subscriptionVersionModify to NPAC SMS Simulator to modify routing data and handles the action response message from the NPAC SMS Simulator. The NPAC SMS Simulator locally sets the subscriptionVersionNPAC attributes values for the instance to be modified, and then it sets the instance's subscriptionVersionStatus to 'sending'. The NPAC SMS Simulator does not send the notification for the 'sending' status subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange. The NPAC SMS Simulator emulates receiving positive responses from all the SMSs and locally sets the instance's subscriptionVersionStatus to 'active'. The SOA handles the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange notification for the 'active' status sent by the NPAC SMS Simulator, and responds with confirmation.
Expected Results	The SOA successfully initiates the subscriptionVersionModify M-ACTION and handles the subsequent interactions with the NPAC
	SMS Simulator.

16.13.4 A2A.SOA.VAL.IMMDISC.NOTMISS.SubscriptionVersion

Purpose	To test that a SOA can handle the condition where the 'sending' status change notification is never sent by the NPAC SMS Simulator in a disconnect subscription version scenario. The LSMSs are simulated. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	R
Severity Explanation	Test case must be run to ensure the service provider SOA can correctly process the NPAC SMS Simulator notifications for an immediate disconnect of a subscription version if the functionality is supported by the service provider.
Prerequisites	Active subscription version exists for the service provider.
Procedure	The SOA issues the M-ACTION subscriptionVersionDisconnect to NPAC SMS Simulator, and handles the action response message from the NPAC SMS Simulator. The NPAC SMS Simulator locally sets the subscriptionVersionNPAC instance's subscriptionVersionStatus to 'sending'.
	3. The NPAC SMS Simulator does not send the notification for the 'sending' status subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange.

	4. The NPAC SMS Simulator emulates receiving positive responses from all the SMSs and locally sets the instance's subscriptionVersionStatus to 'old'. 5. The SOA handles the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange notification for the 'old' status sent by the NPAC SMS Simulator, and responds with confirmation.
Expected Results	The SOA successfully initiates the subscriptionVersionDisconnect M-ACTION and handles the subsequent interactions with the NPAC SMS Simulator.

16.14 Associated Service Provider Test Cases (NANC 48)

16.14.1 A2A.NSOA.VAL.CREATE.FIRST.ASSOCSP.SubscriptionVersion

Purpose	Verify that the New SOA, acting for an associated service provider, can perform a first create for a subscription version on the NPAC SMS Simulator. The Old Service Provider SOA is simulated. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	C
Severity Explanation	This test case must be executed if a SOA is to support associated service provider subscription version processing.
Prerequisites	
Procedure	The New Service Provider SOA issues the M-ACTION subscriptionVersionNewSP-Create with an associated service provider is specified in the access control SystemId field and in the new service provider id in the action. The NPAC SMS Simulator handles the local subscriptionVersionNPAC create for the associated service provider, and sends the M-ACTION response to the New Service Provider SOA. The New Service Provider SOA acting for an associated service provider handles the objectCreation or subscriptionVersionRangeObjectCreation notification sent by the NPAC SMS Simulator, which contains the 'pending' state for the newly created version, and responds with the notification confirmation.
Expected Results	The New Service Provider SOA successfully initiates the subscriptionVersionNewSP-Create M-ACTION for an associated service provider and handles the subsequent interactions with the NPAC SMS Simulator.

16.14.2 A2A.NSOA.VAL.CREATE.SECOND.ASSOCSP.SubscriptionVersio

Purpose	Verify that the New Service Provider SOA for an associated service provider can perform a second create for a subscription version after the simulated Old Service Provider SOA create. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	С
Severity Explanation	Test case must be executed if a SOA is to support associated service

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	provider subscription version processing.
Prerequisites	
Procedure	The simulated Old Service Provider SOA issues a local request to create a new subscription version with the new service provider set to the service provider id of the associated service provider.
	The NPAC SMS Simulator handles the local subscriptionVersionNPAC create and sends the M-ACTION response for the associated service provider id to the Old Service Provider SOA.
	3. The New Service Provider SOA handles the objectCreation or subscriptionVersionRangeObjectCreation notification from the NPAC SMS Simulator, and responds with confirmation.
	4. The New Service Provider SOA issues an M-ACTION request to the NPAC SMS simulator for subscriptionVersionNewSP-Create with an associated service provider is specified in the access control SystemId field and in the new service provider id in the action. The simulator handles the local M-SET for the existing subscriptionVersionNPAC instance, and sends the action response to the New Service Provider SOA.
	5. The New Service Provider SOA handles the attributeValueChange or subscriptionVersionRangeAttributeValueChange notification sent by the NPAC SMS Simulator for the associated service provider, and responds with confirmation.
Expected Results	The New Service Provider SOA successfully initiates the subscriptionVersionCreate M-ACTION after the new service provider create for an associated service provider and handles the interactions with the NPAC SMS Simulator.

16.14.3 A2A.OSOA.VAL.CREATE.FIRST.ASSOCSP.SubscriptionVersion

Purpose	Verify that the Old Service Provider SOA for an associated service provider can perform a first create for a subscription version on the NPAC SMS Simulator. The New Service Provider SOA is simulated. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	C
Severity Explanation	Test case must be executed if a SOA is to support associated service provider subscription version processing were the old service provider supports issuing the first create if the functionality supported by the product.
Prerequisites	
Procedure	1. The Old Service Provider SOA issues the M-ACTION subscriptionVersionOldSP-Create with an associated service provider is specified in the access control SystemId field and in the old service provider id in the action. The NPAC SMS Simulator handles the local subscriptionVersionNPAC create, and sends the M-ACTION response to the Old Service Provider SOA.
	2. The Old Service Provider SOA for the associated service provider handles the objectCreation or subscriptionVersionRangeObjectCreation notification sent by the NPAC SMS Simulator that contains the 'pending' state for

	the newly created version, and responds with the notification confirmation.
Expected Results	The Old Service Provider SOA successfully initiates the subscriptionVersionOldSP-Create M-ACTION and handles the subsequent interactions with the NPAC SMS Simulator for the associated service provider.

16.14.4 A2A.OSOA.VAL.CREATE.SECOND.ASSOCSP.SubscriptionVersio

n

Severity Severity Explanation	Verify that the Old Service Provider SOA can perform a second create for an associated service provider for a subscription version after the simulated New Service Provider SOA create. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications. C Test case must be executed if a SOA is to support associated service provider subscription version processing were the old service provider supports issuing the second create if the functionality is supported by the product.
Prerequisites	
Procedure	 The simulated New Service Provider SOA issues a local request to create a new subscription version with the old service provider id set to the service provider id of the associated service provider. The Old Service Provider SOA handles for the associated service provider the objectCreation or subscriptionVersionRangeObjectCreationnotification from the NPAC SMS Simulator, and responds with confirmation. The Old Service Provider SOA issues an M-ACTION request to the NPAC SMS Simulator for subscriptionVersionOldSP-Create with an associated service provider is specified in the access control SystemId field and in the old service provider id in the action. The simulator handles the local M-SET for the existing subscriptionVersionNPAC instance, and sends the action response to the Old Service Provider SOA. The Old Service Provider SOA handles for the associated service provider the attributeValueChange or subscriptionVersionRangeAttributeValueChange notification sent by the NPAC SMS Simulator, and responds with confirmation.
Expected Results	The Old Service Provider SOA successfully initiates the subscriptionVersionOldSP-Create ACTION and handles the interactions with the NPAC SMS Simulator for the associated service provider.

16.14.5 A2A.OSOA.VAL.NOCONC.ACTIVATE.ASSOCSP.SubscriptionVersi on

Purpose	Verify that Old Service Provider SOA can handle the situation
• •	where a subscription version is activated by the new Service
	Provider SOA when no concurrence is issued by the old Service
	Provider SOA. This test case must be executed twice if a SOA is

	supporting both "individual" and "range/list" notifications.
Severity	C
Severity Explanation	Test case must be executed if a SOA is to support associated service provider subscription version processing.
Prerequisites	A pending subscription version exists that can be activated by the new service provider for which the old service provider has not concurred.
Procedure	 The simulated New Service Provider SOA creates first a subscription version on the NPAC SMS Simulator. The NPAC SMS Simulator emits the object creation notification to the Old Service Provider SOA acting for an associated service provider. The Old Service Provider SOA responds to the object creation or subscriptionVersionRangeObjectCreation notification sent by the NPAC SMS Simulator. No response is received from Old Service Provider SOA regarding the newly created subscription version in "Initial Concurrence Window". NPAC SMS Simulator sends M-EVENT-REPORT of subscriptionVersionOldSP-ConcurrenceRequest or subscriptionVersionRangeOldSP-ConcurrenceRequest notification to the Old Service Provider SOA. The Old Service Provider SOA responds to the notification. Still no response from the Old Service Provider SOA regarding the newly created subscription version in "Final Concurrence Window". NPAC SMS Simulator sends M-EVENT-REPORT of subscriptionVersionOldSP-FinalConcurrenceWindowExpiration or subscriptionVersionRangeOldSP-FinalConcurrenceWindowExpiration notification to the Old Service Provider SOA. The Old Service Provider SOA responds to the notification. NPAC SMS Simulator simulates sending M-CREATE request on the subscription version to all the Local LSMSs, and getting positive responses from each of the Local SMS. NPAC SMS Simulator sends a subscriptionVersionStatusAttributeValueChange or subscriptionVersionStatusAttributeValueChange notification with a 'active' status to the Old Service Provider SOA acting for an associated service provider. Old Service Provider SOA handles and responds to the
Expected Results	notification for the 'active' status. The Old Service Provider SOA successfully handles notifications of
	subscription version activation from the NPAC SMS Simulator
	when an old service provider that is an associated service provider
	has not provided concurrence.

16.14.6 A2A.NSOA.VAL.ACTIVATE.ASSOCSP.SubscriptionVersion

Purpose	To verify the New Service Provider SOA can activate a subscription version in the pending state. The Old Service Provider SOA and the LSMSs are simulated. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	С
Severity Explanation	Test case must be executed if a SOA is to support associated service provider subscription version processing.

Prerequisites	A subscription version exists in a pending state that can be activated
•	for the new service provider.
Procedure	 The New Service Provider SOA issues, for an associated service provider, the M-ACTION subscriptionVersionActivate for a 'pending' subscriptionVersionNPAC instance on the NPAC SMS Simulator with an associated service provider is specified in the access control and handles the action response message sent by the NPAC SMS Simulator. The NPAC SMS Simulator locally sets the subscriptionVersionStatus of the 'pending' instance to 'sending'. The NPAC SMS Simulator emulates receiving positive responses from all the LSMSs, locally sets the subscriptionVersionStatus of the 'sending' instance to 'active', and sends the corresponding notification to the New Service Provider SOA acting for an associated service provider. The New Service Provider SOA handles the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange notification for the 'active' status, and responds with confirmation.
Expected Results	New Service Provider SOA, for an associated service provider successfully initiate the subscriptionVersionActivate M-ACTION
	and handles the subsequent interactions with the NPAC SMS Simulator.

16.14.7 A2A.NSOA.VAL.MODIFY.PEND.ASSOCSP.SubscriptionVersion

B	Treat deat de Nieu Comina Domini des COA estima Con
Purpose	Test that the New Service Provider SOA, acting for an associated
	service provider, can modify a subscription version in the pending
	state using a Modify Action. The Old Service Provider SOA is
	simulated. This test case must be executed twice if a SOA is
	supporting both "individual" and "range/list" notifications.
Severity	С
Severity Explanation	Test case must be executed if a SOA is to support associated service
	provider subscription version processing for new service provider
	modify pending.
Prerequisites	A pending subscription version exists for the new service provider.
Procedure	1. The New Service Provider SOA, acting for an associated
	service provider, issues an M-ACTION
	subscriptionVersionModify to NPAC SMS Simulator to modify
	the due date with an associated service provider is specified in
	the access control SystemId and handles the response message
	from the NPAC SMS Simulator.
	2. The NPAC SMS Simulator locally sets the attribute values of
	the subscriptionVersionNPAC instance, and sends the
	corresponding attribute Value Change or
	subscriptionVersionRangeAttributeValueChange notification to
	the New Service Provider SOA acting for an associated service
	provider.
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	,,
	responds with confirmation.
Expected Results	New Service Provider SOA, acting for an associated service
	provider, successfully initiates the subscriptionVersionModify M-

ACTION and handles the subsequent interactions with the NPAC
SMS Simulator.

16.14.8 A2A.OSOA.VAL.MODIFY.PEND.ASSOCSP.SubscriptionVersion

Purpose	Test that the Old Service Provider SOA, acting for an associated service provider, can modify a subscription version in the pending state using a Modify Action. The New Service Provider SOA is simulated. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	C
Severity Explanation	Test case must be executed if a SOA is to support associated service provider subscription version processing for old service provider modify pending.
Prerequisites	A pending subscription version exists for the old service provider.
Procedure	 The Old Service Provider SOA issues, for an associated service provider, an M-ACTION subscriptionVersionModify to NPAC SMS Simulator for the due date with an associated service provider is specified in the access control SystemId and handles the response message from the NPAC SMS Simulator. The NPAC SMS Simulator locally sets the attribute values of the subscriptionVersionNPAC instance, and sends the corresponding attributeValueChange or subscriptionVersionRangeAttributeValueChange notification to the Old Service Provider SOA acting for an associated service provider. The Old Service Provider SOA handles the notification, and responds with confirmation.
Expected Results	Old Service Provider SOA, acting for an associated service provider successfully initiates the subscriptionVersionModify M-ACTION and handles the subsequent interactions with the NPAC SMS Simulator.

16.14.9 A2A.SOA.VAL.MODIFY.ACTIVE.ASSOCSP.SubscriptionVersion

Purpose	To test that a SOA, for an associated service provider, can modify an active subscription version. The LSMSs are simulated. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	C
Severity Explanation	Test case must be executed if a SOA is to support associated service provider subscription version processing for modify active.
Prerequisites	An active subscription version exists for the service provider.
Procedure	The SOA, for an associated service provider, issues an M-ACTION subscriptionVersionModify to NPAC SMS Simulator to modify routing data with an associated service provider is specified in the access control SystemId and handles the action response message from the NPAC SMS Simulator. The NPAC SMS Simulator locally sets the subscriptionVersionNPAC attributes values for the instance to be modified, and then it sets the instance's subscriptionVersionStatus to 'sending'. The NPAC SMS Simulator emulates receiving positive

	responses from all the SMSs, locally sets the instance's subscriptionVersionStatus to 'active' and sends a subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange. 4. The SOA for an associated service provider, handles the notification sent by the NPAC SMS Simulator for the 'active' status,
	and responds with confirmation.
Expected Results	The SOA, acting for an associated service provider, successfully initiate the subscriptionVersionModify M-ACTION and handles the subsequent interactions with the NPAC SMS Simulator.

16.14.10 A2A.NSOA.VAL.CANCEL.ASSOCSP.SubscriptionVersion

Purpose	Test that the SOA, acting for an associated service provider, can initiate a cancel request of a pending subscription version. The Old Service Provider SOA is simulated. This test case must be executed twice if a SOA is supporting both "individual" and "range/list"
	notifications.
Severity	С
Severity Explanation	Test case must be executed if a SOA is to support associated service provider subscription version processing for cancellation.
Prerequisites	A pending subscription version exists for the new service provider were the old service provider has not concurred.
Procedure	 The New Service Provider SOA, acting for an associated service provider, issues an M-ACTION request for subscriptionVersionCancel to NPAC SMS Simulator with an associated service provider is specified in the access control SystemId and handles the response message from the NPAC SMS Simulator. The NPAC SMS Simulator locally sets the subscriptionVersionStatus of the instance to be canceled to 'canceled', and emits the corresponding notification. The New Service Provider SOA, acting for an associated service provider, handles the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange notification sent by the NPAC SMS Simulator for the 'canceled' status, and confirms it.
Expected Results	The New Service Provider SOA, acting for an associated service provider, successfully initiates the subscriptionVersionCancel M-ACTION and handles the subsequent interactions with the NPAC SMS Simulator.

16.14.11 A2A.OSOA.VAL.CANCEL.ASSOCSP.SubscriptionVersion

Purpose	Test that the Old Service Provider SOA for an associated service provider can initiate a cancel request of a pending subscription version. The New Service Provider SOA is simulated. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	С
Severity Explanation	Test case must be executed if a SOA is to support associated service provider subscription version processing for cancellation.

Prerequisites	A pending subscription version exists for the old service provider
	where the new service provider has concurred.
Procedure	The Old Service Provider SOA for the associated service provider issues an M-ACTION request for subscriptionVersionCancel to NPAC SMS Simulator with an associated service provider is specified in the access control SystemId and handles the response message from the NPAC SMS Simulator. 2. The NPAC SMS Simulator locally sets the
	subscriptionVersionStatus of the instance to be canceled to 'cancel-pending', and emits the corresponding notification. The Old Service Provider SOA for the associated service
	provider handles the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange notification sent by the NPAC SMS Simulator for the 'cancel-pending' status, and confirms it.
	The Old Service Provider SOA for the associated service provider issues the subscriptionVersionOldSP- CancellationAcknowledge M-ACTION request, and handles the response message from the simulator.
	5. The NPAC SMS Simulator emulates receiving the New Service Provider SOA's cancellation acknowledge request, locally sets the subscriptionVersionStatus to 'canceled', and emits the corresponding notification.
	6. The Old Service Provider SOA for the associated service provider handles the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange notification sent by the NPAC SMS Simulator for the 'canceled' status, and confirms it.
Expected Results	The Old Service Provider SOA for an associated service provider successfully initiates the subscriptionVersionCancel M-ACTION and handles the subsequent interactions with the NPAC SMS Simulator.

16.14.12 A2A.NSOA.VAL.CANCEL.ACKREQ.ASSOCSP.SubscriptionVersio

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Purpose	Verify the SOA will respond to the subscriptionVersionCancellationAcknowledgeRequest for an associated service provider as the new service provider with the action subscriptionVersionNewSP-CancellationAcknowledge. The Old Service Provider SOA is simulated. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	С
Severity Explanation	Test case must be executed if a SOA is to support associated service provider subscription version processing for cancellation.
Prerequisites	A subscription version with a cancel-pending status exists for the associated service provider as the new service provider.
Procedure	The NPAC SMS Simulator will request that the SOA, for an associated service provider, acknowledge an existing 'cancel-pending' subscription version. The NPAC SMS Simulator sends

	the notification for subscriptionVersionCancellationAcknowledgeRequest or subscriptionVersionRangeCancellationAcknowledgeRequest to that SOA. 2. The SOA handles the notification and confirms it. 3. The SOA issues the subscriptionVersionNewSP-CancellationAcknowledge action for the associated service provider in response to the notification and handles the NPAC SMS Simulator response. The action sent will have the associated service provider is specified in the access control SystemId 4. The NPAC SMS Simulator locally sets the version status to 'canceled' and emit the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange notification. 5. The New Service Provider SOA handles the notification for the 'canceled' status and confirms it.
Expected Results	The SOA successfully handles the cancellation acknowledgement request interactions for the associated service provider as the new service provider with the NPAC SMS Simulator.

16.14.13 A2A.OSOA.VAL.CANCEL.ACKREQ.ASSOCSP.SubscriptionVersion

Purpose	Verify the SOA will respond to the subscriptionVersionCancellationAcknowledgeRequest for an associated service provider as the old service provider with the action subscriptionVersionOldSP-CancellationAcknowledge. The New Service Provider SOA is simulated. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	C
Severity Explanation	Test case must be executed if a SOA is to support associated service provider subscription version processing for cancellation.
Prerequisites	A subscription version with a cancel pending status exists for the associated service provider as the new service provider.
Procedure	The NPAC SMS Simulator will request that the SOA, for an associated service provider, acknowledge an existing 'cancelpending' subscription version by sending the notification for subscriptionVersionCancellationAcknowledgeRequest or subscriptionVersionRangeCancellationAcknowledgeRequest to that SOA. SOA handles the notification and confirms it. The SOA, for the associated service provider, issues the subscriptionVersionOldSP-CancellationAcknowledge action in response to the notification and handles the NPAC SMS Simulator response. The action sent will have the associated service provider is specified in the access control SystemId The NPAC SMS Simulator locally sets the version status to 'canceled' and emits the

	ssubscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange notification. 5. The Old service provider SOA handles the notification for the 'canceled' status and confirms it.
Expected Results	The SOA successfully handles the cancellation acknowledgement request interactions for the associated service provider as the old service provider with the NPAC SMS Simulator.

16.14.14 A2A.SOA.VAL.IMMDISC.ASSOCSP.SubscriptionVersion

Purpose	To test that a SOA for an associated service provider can perform an immediate disconnect on an active subscription version. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	C
Severity Explanation	Test case must be executed if a SOA is to support associated service provider subscription version processing for an immediate disconnect.
Prerequisites	A subscription version had been created and activated by the associated service provider.
Procedure	 The SOA for an associated service provider issues an MACTION subscriptionVersionDisconnect to the NPAC SMS Simulator with an associated service provider is specified in the access control SystemId, and handles the response message from the simulator. The NPAC SMS Simulator locally sets the subscriptionVersionStatus to 'disconnect-pending', and emits the corresponding notification. The SOA for an associated service provider handles the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange notification for the 'disconnect-pending' status and confirms it. The NPAC SMS Simulator locally sets the subscriptionVersionStatus to 'sending'. The NPAC SMS Simulator emulates receiving the responses from all the LSMSs, locally sets the subscriptionVersionStatus to 'old', and emits the corresponding notification. The SOA for an associated service provider handles the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange notification for the 'old' status and confirms it.
Expected Results	The SOA for an associated service provider successfully initiates
	the subscriptionVersionDisconnect M-ACTION and handles the subsequent interactions with the NPAC SMS Simulator.

16.14.15 A2A.SOA.VAL.DEFDISC.ASSOCSP.SubscriptionVersion

Purpose	To test that a SOA for an associated service provider can perform a deferred disconnect on an active subscription version. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	С
Severity Explanation	Test case must be executed if a SOA is to support associated service

	provider subscription version processing for a deferred disconnect.
Prerequisites	A subscription version had been created and activated by the
<u>-</u>	associated service provider.
Procedure	1. The SOA, for an associated service provider, issues an M-
	ACTION subscriptionVersionDisconnect with the
	subscriptionEffectiveReleaseDate attribute set and an
	associated service provider is specified in the access control
	SystemId. It then handles the response message from the
	NPAC SMS Simulator.
	2. The NPAC SMS Simulator locally sets the
	subscriptionVersionStatus to 'disconnect-pending', and emits
	the corresponding notification.
	3. The SOA for an associated service provider handles the
	subscriptionVersionStatusAttributeValueChange or
	subscriptionVersionRangeStatusAttributeValueChange
	notification for the 'disconnect-pending' status and confirms it.
Expected Results	The SOA for an associated service provider successfully initiates
==-	the subscriptionVersionDisconnect for a deferred disconnect and
	handles the subsequent interactions with the NPAC SMS Simulator.

16.14.16 A2A.NSOA.VAL.CONFLICT.RESOLV.ASSOCSP.SubscriptionVersion

Purpose	To verify that the SOA, for an associated service provider as the new service provider, can handle the resolution of a subscription version conflict. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	C
Severity Explanation	Test case must be executed if a SOA is to support associated service provider subscription version processing for cancellation acknowledgement.
Prerequisites	A subscription version with a status of conflict exists where the new service provider is an associated service provider for the SOA,
Procedure	The NPAC SMS Simulator initiates the resolution of the conflict state by locally setting the subscriptionVersionStatus to 'pending', and emits the corresponding notification. The New service provider SOA handles the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange notification for the 'pending' status sent by the NPAC SMS Simulator, and confirms it.
Expected Results	The SOA, for an associated service provider, has successfully processed the subscriptionVersionStatusAttributeValueChange notification.

16.14.17 A2A.OSOA.VAL.CONFLICT.RESOLV.ASSOCSP.SubscriptionVersi on

Purpose	To verify the SOA, for an associated service provider who is the old service provider, can handle the resolution of a subscription version conflict. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	C

Severity Explanation	Test case must be executed if a SOA is to support associated service provider subscription version processing for cancellation
	acknowledgement.
Prerequisites	A subscription version with a status of conflict exists where the old
_	service provider is an associated service provider for the SOA,
Procedure	1. The NPAC SMS Simulator initiates the resolution of the
	conflict state by locally setting the subscriptionVersionStatus to
	'pending', and emits the corresponding notification.
	2. The SOA handles the
	subscriptionVersionStatusAttributeValueChange or
	subscriptionVersionRangeStatusAttributeValueChange
	notification for the 'pending' status sent by the NPAC SMS
	Simulator, and confirms it.
Expected Results	The SOA, for an associated service provider, has successfully
,	processed the subscriptionVersionStatusAttributeValueChange
	notification.

16.14.18 A2A.SOA.VAL.PORT-TO-ORIG.ASSOCSP.SubscriptionVersion

Purpose	To verify that the SOA can, for an associated service provider, create a port-to-original port. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications.
Severity	С
Severity Explanation	Test case must be executed if a SOA is to support associated service provider subscription version processing for port-to-original porting.
Prerequisites	
Procedure	 The SOA issues the subscriptionVersionCreate action for an associated service provider specifying a port-to-original by setting the subscriptionPortingToOriginal-SPSwitch attribute to TRUE. The associated service provider is specified in the access control SystemId and in the new service provider id. The SOA handles the M-ACTION response. The NPAC SMS Simulator locally creates the 'pending' subscription version and emits the objectCreation or subscriptionVersionRangeObjectCreation notification. The SOA handles the notification sent by the NPAC SMS Simulator, and confirms it. The SOA issues, for the associated service provider, the M-ACTION subscriptionVersionActivate for the newly created and 'pending' subscriptionVersionNPAC instance. The associated service provider is specified in the access control SystemId and in the new service provider id. The SOA handles the action response message sent by the NPAC simulator. The NPAC SMS Simulator locally sets the subscriptionVersionStatus of the 'pending' instance to 'sending'. The NPAC SMS Simulator emulates deleting that version from all the LSMSs, locally sets the subscriptionVersionStatus to 'old', and sends the subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange

	notification to the SOA for the 'old' status. 7. The SOA handles the notification for the 'old' Status, and responds with confirmation.
Expected Results	The SOA successfully initiates the port to original for the associated service provider and handles the subsequent interactions with the NPAC SMS simulator.

16.14.19 A2A.SOA.CAP.ACT.ASSOCSP.numberPoolBlockCreateAction

Purpose	To verify that the SOA can, for an associated service provider, create number pool block.
Severity	С
Severity Explanation	Test case must be executed if a SOA is to support associated service provider number pool blocks.
Prerequisites	N/A
Procedure	SOA issues a valid numberPoolBlockCreate M-ACTION request for an associated service provider. The associated service provider is specified in the access control SystemId and in the new service provider id. NPAC SMS Simulator responds with a successful M-ACTION response.
Expected Results	The SOA successfully initiates the port to original for the associated service provider and handles the subsequent interactions with the NPAC SMS simulator.

16.14.20 A2A.SOA.CAP.OP.SET.ASSOCSP.numberPoolBlock

Purpose	Verify the SOA's ability to SET all the modifiable attributes of the numberPoolBlockNPAC managed object instance for an associated service provider.
Severity	С
Severity Explanation	Test case must be executed if a SOA is to support associated service provider number pool blocks.
Prerequisites	A numberPoolBlockNPAC object exists on the NPAC SMS Simulator.
Procedure	 SOA issues a valid M-SET request for all modifiable attributes of the numberPoolBlockNPAC object. NPAC SMS Simulator responds with a successful M-SET result containing all modifiable attributes.
Expected Results	SOA issues a valid M-SET request for the associated service provider and updates the attributes successfully on the NPAC SMS Simulator.

16.15 Miscellaneous Scenarios Test Cases

МО	Miscellaneous Scenarios Test Cases
Purpose	This section contains the test cases for Miscellaneous Scenarios, pertaining to the Application processes of the SOA and LSMS to NPAC SMS Simulator Interface, as part of the Application to Application testing of the NPAC SMS Interoperability Test.
Prerequisite	All Managed Object and stack to stack testing completed. SOA, NPAC SMS Simulator, and LSMS stacks and applications running.

16.15.1 A2A.SOA.VAL.MISC.ACTION.resync

Purpose Severity	Verify SOA can process resynchronization updates from NPAC SMS Simulator. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications. C
Severity Explanation	Required if a SOA is to support network and/or notification data recovery.
Prerequisites	Network and notification data exist to recover.
Procedure	 SOA established association with NPAC SMS Simulator, with resynchronization flag on. SOA, if supporting network data recovery, sends the InpDownload action request to NPAC SMS Simulator to start network data download for a specified period of time. NPAC SMS Simulator responds with network data updates. SOA, if supporting notification data recovery, sends the InpNotificationRecovery action request to NPAC SMS Simulator to start notification data download for a specified period of time. NPAC SMS Simulator responds with notification updates. SOA sends action request to NPAC SMS Simulator to set the resynchronization flag off. NPAC SMS Simulator sends the action response.
Expected Results	SOA associates in recovery mode, issues data download and/or notification recovery actions, and receives action responses containing network and/or notification data updates. Test case must be executed twice for each type of recovery if both recovery requests can not be issued sequentially.

16.15.2 A2A.SOA.INV.MISC.ACTION.resync

Purpose	Verify SOA can process resynchronization update errors from NPAC SMS Simulator. The purpose of this scenario is to test the behavior of the SOA under the following conditions with the SOA having established association with NPAC SMS Simulator, with resynchronization flag on: 1. SOA, if supporting network data, sends the InpDownload action request to start network data download for a specified period of time and the NPAC SMS Simulator responds with criteria-too-large error. 2. SOA, if supporting notification data recovery, sends the InpNotificationRecovery action request to NPAC SMS Simulator to start notification data download for a specified period of time and the NPAC SMS Simulator responds with criteria-too-large error.
	criteria-too-large error. The procedure and behavior responses for this scenario should be agreed upon between the test engineer and vendor.
Severity	0
Severity Explanation	Required if a SOA is to support network and/or notification data recovery.

Prerequisites	Network and notification data exists to be recovered.
Procedure	To be determined by vendor and test engineer.
	Note: This test case may need to be executed more than once to complete the testing requirements.
Expected Results	SOA associates in recovery mode, issues data download and/or notification recovery actions, and receives action and handles error conditions.

16.15.3 A2A.SOA.VAL.MISC.ACTION.ASSOCSP.resync

Purpose Severity Severity Explanation	Verify SOA can process resynchronization updates from NPAC SMS Simulator for an associated service provider. This test case must be executed twice if a SOA is supporting both "individual" and "range/list" notifications. C Required if a SOA is to support network and/or notification data recovery for an associated service provider.
Prerequisites	Network and notification data exist to recover for the associated service provider.
Procedure	 SOA established association with NPAC SMS Simulator, with resynchronization flag on. SOA, if supporting network data recovery, sends the InpDownload action request to NPAC SMS Simulator to start network data download at a specified period of time for the associated service provider. NPAC SMS Simulator responds with network data updates. SOA, if supporting notification data recovery, sends the InpNotificationRecovery action request to NPAC SMS Simulator to start notification data download for a specified period of time for the associated service provider. NPAC SMS Simulator responds with notification updates. SOA sends the InpRecoveryComplete action request to the NPAC SMS Simulator to set the resynchronization flag off. NPAC SMS Simulator responds to the action.
Expected Results	SOA associates in recovery mode, issues data download and notification recovery actions, and receives action responses containing network and notification data updates time for the associated service. Test case must be executed twice for each type of recovery if both recovery requests can not be issued sequentially.

16.15.4 A2A.LSMS.VAL.MISC.ACTION.resync

Purpose	Verify LSMS can process resynchronization updates from NPAC SMS Simulator.
Severity	С
Severity Explanation	Required if a LSMS is to support notification data recovery.
Prerequisites	Network, subscription, and notification data exist to recover.
	Test case must be executed independently for each type of recovery supported if the recovery requests can not be issued sequentially.

Procedure	1. LSMS established association with NPAC SMS Simulator, with
	resynchronization flag on.
	2. LSMS, if supported, sends the lnpDownload action request to
	NPAC SMS Simulator to start network data download at a
	specified period of time.
	3. NPAC SMS Simulator responds with network data updates.
	4. LSMS, if supported, sends the lnpDownload action request to
	NPAC SMS Simulator to start subscription data download at a
	specified period of time.
	5. NPAC SMS Simulator responds with subscription data updates.
	6. LSMS, if supported, sends the lnpDownload action request to
	NPAC SMS Simulator to start number pool block data
	download at a specified period of time.
	 NPAC SMS Simulator responds with number pool block updates.
	8. LSMS, if supported, sends the InpNotificationRecovery action
	request to NPAC SMS Simulator to start notification data
	download for a specified period of time.
	11. TATAC SIMO SIMULATOR RESPONDS to the action.
Expected Results	LSMS associates in recovery mode, issues data download and
Expected Nesults	
Expected Results	 NPAC SMS Simulator responds with notification data updates. LSMS sends the lnpRecoveryComplete action request to NPAC to set resynchronization flag off. NPAC SMS Simulator responds to the action. LSMS associates in recovery mode, issues data download and notification recovery actions, and receives action responses containing network, subscription and notification data updates and takes appropriate action to update its databases.

16.15.5 A2A.LSMS.INV.MISC.ACTION.resync

Purpose	Verify LSMS can process resynchronization update errors from NPAC SMS Simulator.
	The purpose of this scenario is to test the behavior of the LSMS under the following conditions with the LSMS having established association with NPAC SMS Simulator, with resynchronization flag on: 1. LSMS sends the InpDownload action request to start network data download for a specified period of time and the NPAC SMS Simulator responds with criteria-too-large error. 2. LSMS sends the InpDownload action request to start subscription data download for a specified period of time and the NPAC SMS Simulator responds with criteria-too-large
	error. 3. LSMS sends the InpDownload action request to start number pool block dat download for a specified period of time and the NPAC SMS Simulator responds with criteria-too-large error. 4. LSMS, if supporting notification data recovery, sends the InpNotificationRecovery action request to NPAC SMS Simulator to start notification data download for a specified period of time and the NPAC SMS Simulator responds with criteria-too-large error.

	The procedure and behavior responses for this scenario should be agreed upon between the test engineer and vendor.
Severity	0
Severity Explanation	Required if a LSMS is to support notification data recovery.
Prerequisites	Network, subscription, and notification data exist to recover.
Procedure	To be determined by vendor and test engineer.
	Note: This test case may need to be executed more than once to complete the testing requirements.
Expected Results	LSMS associates in recovery mode, issues data download and notification recovery actions, and receives action responses and handles error conditions. Test case must be executed for each type of recovery supported if the recovery requests can not be issued sequentially.

16.15.6 A2A.SOA.VAL.MISC.ACTION.resync_3_1

Purpose	Verify SOA can process resynchronization updates from NPAC SMS Simulator at such time the SOA changes from supporting "individual" subscription version notifications to "range/list" notifications.
Severity	C
Severity Explanation	Required if a SOA is supporting "range/list" notifications.
Prerequisites	Network and notification data exist to recover. The notification data should contain at least one of all types of "range/list" notifications each with the RANGE set to 1 TN. See section 5.5.1-2 for a complete list of the notifications.
Procedure	1. SOA established association with NPAC SMS Simulator, with resynchronization flag on. 2. SOA, if supporting network data recovery, sends the InpDownload action request to NPAC SMS Simulator to start network data download for a specified period of time. 3. NPAC SMS Simulator responds with network data updates. 4. SOA, if supporting notification data recovery, sends the InpNotificationRecovery action request to NPAC SMS Simulator to start notification data download for a specified period of time. 5. NPAC SMS Simulator responds with notification updates. 6. SOA sends action request to NPAC SMS Simulator to set the resynchronization flag off. 7. NPAC SMS Simulator sends the action response.
Expected Results	SOA associates in recovery mode, issues data download and/or notification recovery actions, and receives action responses containing network and/or notification data updates. Test case must be executed twice for each type of recovery if both recovery requests cannot be issued sequentially.

16.16 A2A Number Pooling - SOA to NPAC SMS

16.16.1 A2A.SOA.VAL.GET.SCOPED.subscriptionVersion.TN-LNPTYPE

Purpose	Verify the SOA's ability to correctly issue a scope and filtered M-GET request for all the attributes of a subscriptionVersionNPAC managed object instance by TN and subscriptionLNPType.
Severity	0
Severity Explanation	Required if SOA will be querying the NPAC SMS.
Prerequisites	N/A
Procedure	 SOA issues a valid M-GET request for all attributes of a subscriptionVersionNPAC object with a filter set for TN and subscriptionLNPType. NPAC SMS Simulator responds with a successful M-GET result containing all attributes.
Expected Results	SOA issues a valid scope and filtered M-GET request for the subscription version and successfully handles the reply.

16.17 A2A Number Pooling - LSMS to NPAC SMS

16.17.1 A2A.LSMS.VAL.GET.SCOPED.subscriptionVersion.TN-LNPTYPE

Purpose	Verify the LSMS's ability to issue a scope and filtered M-GET request for all the attributes of a subscriptionVersion managed object instance by TN and subscriptionLNPType.
Severity	0
Severity Explanation	Required if LSMS will be querying the NPAC SMS.
Prerequisites	N/A
Procedure	 LSMS issues a valid M-GET request for all attributes of a subscriptionVersion object with a filter set for TN and subscriptionLNPType. NPAC SMS Simulator responds with a successful M-GET result containing all attributes.
Expected Results	LSMS issues a valid scope and filtered M-GET request for the subscription version and successfully handles the reply.

16.18 A2A Number Pooling NPAC SMS to LSMS

16.18.1 A2A.LSMS.VAL.CREATE.BYNPAC.subscriptionVersion.POOL

Purpose	Verify the non-EDR LSMS's ability to respond correctly to an M-CREATE request for a single subscription version with subscriptionLNPType equal to 'POOL'.
Severity	С
Severity Explanation	Required if the non-EDR LSMS is supporting subscriptionVersions with subscriptionLNPType equal to 'POOL'.
Prerequisites	N/A
Procedure	 NPAC SMS Simulator issues an M-CREATE request for a subscriptionVersion object. The subscriptionLNPType is set to 'POOL'. LSMS responds with a successful M-CREATE response.
Expected Results	NPAC SMS Simulator receives the successful response.

16.18.2 A2A.LSMS.VAL.CREATE.RANGE.BYNPAC.subscriptionVersion.P OOL

Purpose	Verify the non-EDR LSMS's ability to respond correctly to a create request for a multiple subscription versions with
	subscriptionLNPType equal to 'POOL'.
Severity	C
Severity Explanation	Required if the non-EDR LSMS is supporting subscriptionVersions with subscriptionLNPType equal to 'POOL'.
Prerequisites	N/A
Procedure	NPAC SMS Simulator issues a valid subscriptionVersionLocalSMS-CreateAction. LSMS responds with a successful subscriptionVersionLocalSMSCreateReply M-ACTION reply.
Expected Results	NPAC SMS Simulator receives the successful response.

16.18.3 A2A.LSMS.VAL.GET.SCOPED.BYNPAC.subscriptionVersion.TN-LNPTYPE

Purpose	Verify the LSMS's ability to respond correctly to a scoped and filtered M-GET request for the subscriptionVersion managed object instances where the subscriptionLNPType is set to 'POOL'. The filter contains a TN Range.
Severity	C
Severity Explanation	Required for all non-EDR LSMSs.
Prerequisites	N/A
Procedure	 NPAC SMS Simulator issues a valid scoped and filtered M-GET request for all attributes of the subscriptionVersion object. LSMS responds with the linked M-GET results containing all attributes.
Expected Results	NPAC SMS Simulator receives the valid responses.

Appendix A Testing Registration Form

FOR NANC 2.0.0 to 3.1.0

09-17-01

Service Provider Na	me:			
Service Provider Ag	ent/Supplier	r :		
Point of Contact (fo Name: Email: Phone: Address:	r testing):	Fax:		
Testing Period: (sta Start: End:	rt must be fil	led)	Date	Time
Extended Testing H	ours Expect	ed:	YES	NO
Test Access Type:	-		į	Dedicated
Interface Under Tes	t:		SOA	LSMS
Test Category:	Note In ord NANC 3.0 2.0 must ha successfull	or higher ave been c	NANC	
NANC	2.0	3.0	3.1.0	_
				Stack-to-Stack
				Security Group A
				Security Group B
				Managed Object
				Association Management
				Application-to-Application

Sy	stem Under Test:
	System Name:
	System Version:
	Location
	Hardware Platform Identification:
	Operating System Identification:
	Protocol Stack Identification:
	Test Driver Identification:
	two systems are being tested) stem Under Test:
Эу	
	System Name:
	System Version: Location
	Hardware Platform Identification:
	Operating System Identification:
	Protocol Stack Identification:
	Test Driver Identification:

Version

PICS reference

Reference

Information Object Reference:

Interface Specification
Functional Specification

MOCS Reference

Protocol Stack Profile:

Other Conformance References:

SCS Reference:

ICS Reference(s)

IXIT Reference(s)

Prerequisite Met for Testing: Yes No

Stack-to-Stack				Passed CTS-3 Testing				
Security Group A				Passed Stack-to-Stack Testing				
Security G			Passed Security Group A Testing					
Managed (Object			Passed Security Group A Testing				
Association	n Management			Passed Managed Object Testing				
Application	n-to-Application			Passed all previous testing				
Supported Functions:	Please specify all the fi	unctional	ities s	support by your system(s)				
SOA:	Port In Timer Type (Lo	ong/Short	:)					
	Port Out Timer Type (I	-						
	Business Hours (Norm	•						
	Business Days (Norma	ıl/Extend	ed)					
	WSMSC Data (Yes/No							
	Network Data Downlo	_	No)					
	serviceProvNPA-NXX	-X Dowr						
	Number Pool Block Cr	reation (Y	eation (Yes/No)					
	Number Pool Block M	`						
			`	ndividual/Range-List/Both)				
	subscriptionVersionNe	wSP-Fin	alCrea	ateWindowExpiration(Yes/No)				
LSMS:	WSMSC Data (Yes/No	o)						
	EDR (Yes/No)							
	serviceProvNPA-NXX	-X Dowr	nload	(Yes/No)				
Point of Conta	act (for billing):							
Name:	ζ,							
Email:								
Phone:		Fax:						
Address:								
PO Reference	Number:							
Registration S	Submitted by:							
				Date:				

Appendix B Test Case Nomenclature

STACK-TO-STACK TEST-ID SYMBOLS					
ABBREVIATION DESCRIPTION					
S2S	Stack-to-Stack Interoperability Testing				
VAL	Valid Test				
INV	Invalid Test				
SOA	Initiating system is SOA				
LSMS	Initiating system is LSMS				
ASSOC	Association (A-ASSOCIATE) Request				
RELES	Release (A-RELEASE) Request				
ABORT	Abort (A-ABORT) Request				
INVK	Invalid KEY				
INVT	Invalid Time				
ISMFU	Invalid Systems Management Functional Unit Identifier				
ISEQ	Invalid Sequence Number				

SECURITY TEST-ID SYMBOLS				
ABBREVIATION	DESCRIPTION			
SEC	Security Interoperability Testing			
VAL	Valid Test			
INV	Invalid Test			
SOA	Initiating system is SOA			
LSMS	Initiating system is LSMS			
ASSOC	Association (A-ASSOCIATE) Request			
RELES	Release (A-RELEASE) Request			
ABORT	Abort (A-ABORT) Request			
INVK	Invalid KEY			
INVT	Invalid Time			
ISMFU	Invalid Systems Management Functional Unit Identifier			
ISEQ	Invalid Sequence Number			

MOC TEST-ID SYMBOLS					
ABBREVIATION DESCRIPTION					
MOC	Managed Object Conformance Interoperability Testing				
NPAC	Initiating System is NPAC				
SOA	Initiating system is SOA				
LSMS	Initiating system is LSMS				
CAP	MO Capability Test				
OP	Operation Test				
NOT	Notification Test				
ACT	Action Test				

MOC TEST-ID SYMBOLS				
ABBREVIATION	DESCRIPTION			
VAL	Valid behaviour Test			
INV	Invalid behaviour Test			
CRE	MO Instance Create Test			
DEL	MO Instance Delete Test			
SET	Attribute Set Test			
GET	Attribute Get Test			
SING	Operation on Single Attribute Test			
MULT	Operation on Multiple Attribute Test			
COND	Operation on Conditional Attribute Test			
AUTO	Automatic Object Naming			
RO	Read Only			
СО	Contained Objects			
SCOP	Scoped Test			
FILT	Filter Test			
BND	Boundary Test			
MIN	Lower Bound Test			
MAX	Upper Bound Test			
MAXQ	Maximum number of allowed queries			
MAXB	Maximum number of allowed Bytes			
RANGE	Tests the "range" structure of a "range/list" notification			
LIST	Tests the "list" structure of a "range/list" notification			

RECOVERY TEST-ID SYMBOLS					
ABBREVIATION	DESCRIPTION				
AMG	Association Management Interoperability Testing				
SOA	Initiating system is SOA				
LSMS	Initiating system is LSMS				
ASSOC	Association (A-ASSOCIATE) Request				
REASSOC	re-establish Association				
REQTMOT	Request Timeout Test				
RETRY	Retry a Request				
SWOV	Switch Over				
BKUP	Backup NPAC				
CMIP	CMIP requests				
SECVIOL	Security Violation Test				
LOSS	Association Loss Test				
DOWN	NPAC Down test				
SAME	Retry Same Host				
OTHER	Retry Other Host				

A2A TEST-ID SYMBOLS					
ABBREVIATION DESCRIPTION					
A2A	Application to Application Test				
LSMS	System Under Test is an LSMS				
SOA	System Under Test is a SOA				
NSOA	System Under Test is a New SOA				
OSOA	System Under Test is an Old SOA				
DSOA	System Under Test is a Donor SOA				
VAL	Valid Transaction Test				
INV	Invalid Transaction / Inopportune Behavior Test				
Audit Test Cases					
MISSVER	Missing Subscription Version Test				
OBSVER	Old Subscription Version Test				
ERRVER	Erroneous Subscription Version Test				
NODIS	No Discrepancy Found Test				
TN	Single Telephone Number Test				
TNRNG	Telephone Number Range Test				
ACTRNG	Activation Range Test				
WITHDIS	Audit Discrepancy Found Test				
NPACCNCLD	Canceled by NPAC				
CRENOT	Object Creation Notification				
TIMOUT	Operation/Transaction Timeout Test				
COMP	Audit Complete Test				
NORES	Missing Audit Results Test				
NUMTN	Audit Number of TNs Test				
COMPTN	Completed Number of TNs Test				
NUMDISERR	Number of Discrepancies Error Test				
Service Provider and Net	work Data Test Cases				
SETSP	Set Service Provider Test				
CREND	Create a Network Data Instance Test				
DELND	Delete a Network Data Instance Test				
Subscription Version Test	Cases				
CREATE	Subscription Version Creation Test				
ACTIVATE	Subscription Version Activation Test				
MODIFY	Subscription Version Modification Test				
CANCEL	Subscription Version Cancellation Test				
IMMDISC	Subscription Version Immediate Disconnect Test				
DEFDISC	Subscription Version Deferred Disconnect Test				
STATE-TRANS	State Transition Test				
FIRST	First Create Transaction Test				
SECOND	Second Create Transaction Test				

A2A TEST-ID SYMBOLS					
ABBREVIATION DESCRIPTION					
TN-RANGE	Telephone Number Range Transaction Test				
PEND	Pending Subscription Version Test				
CONFLICT	Conflict Subscription Version Test				
ACT, ACTIVE	Active Subscription Version Test				
OLD	Old Subscription Version Test				
PARTFAIL	Partially Failed Subscription Version Test				
FAIL, FAILED	Failed Subscription Version Test				
SENDING	Sending Subscription Version Test				
CANCEL-PEND	Cancel-Pending Subscription Version Test				
DISCPEND	Disconnect-Pending Subscription Version Test				
OBJCRE	Object Creation Notification Test				
NOTMISS	Missing Notification Test				
ACTNOTMISS	Active Status Missing Notification Test				
BYNPAC	Operation Performed by NPAC Test				
BYOSOA	Operation Performed by Old SOA Test				
BYNSOA	Operation Performed by New SOA Test				
ATTRCHNG	Attribute is Changed Test				
STATCHNG	Status Attribute is Changed Test				
ATTRSAME	Attribute in Unchanged Test				
NONONC	No Concurrence by Other SOA Test				
ACKREQ	Acknowledge Request Test				
RESOLV	Conflict Resolution Test				
PORT-TO-ORIG	Port To Original SP Test				
MULT	Multiple Versions Test				
UNKNOWN	Unknown Instance Test				
Miscellaneous Test Cases					
MISC	Miscellaneous Test				
ACTION	Action Request Test				
EVENT	Event Report Test				
SET	Set Request Test				

Appendix C Complete ITP Test Case Checklist

Tes	t Case I	Number and Name	Sev	Date	Result		
Stac	Stack to StackTest Cases						
1	9.1.1	S2S.SOA.PING and S2S.LSMS.PING	О				
2	9.1.2	S2S.SOA.FTP and S2S.LSMS.FTP	R				
3	9.1.3	S2S.SOA.VAL.ASSOC and	R				
	7.1.5	S2S.LSMS.VAL.ASSOC					
4	9.1.4	S2S.SOA.VAL.RELES and S2S.LSMS.VAL.RELES	R				
5	9.1.5	S2S.SOA.VAL.RELES.BYNPAC and	0				
	7.1.5	S2S.LSMS.VAL.RELES.BYNPAC					
6	9.1.6	S2S.SOA.VAL.ABORT and	R				
		S2S.LSMS.VAL.ABORT					
7	9.1.7	S2S.SOA.VAL.ABORT.BYNPAC and	R				
		S2S.LSMS.VAL.ABORT.BYNPAC					
Seci	urity Test (Cases					
1	10.1.1	SEC.SOA.VAL.ASSOC.NOSIG and	О				
		SEC.LSMS.VAL.ASSOC.NOSIG					
2	10.1.2	SEC.SOA.INV.ASSOC.INVSYS and	R				
		SEC.LSMS.INV.ASSOC.INVSYS					
3	10.1.3	SEC.SOA.INV.ASSOC.INVT and	R				
		SEC.LSMS.INV.ASSOC.INVT					
4	10.1.4	SEC.SOA.ASSOC.SEQ and	R				
		SEC.LSMS.INV.ASSOC.SEQ	<u> </u>				
5	10.2.1	SEC.SOA.VAL.ASSOC and	R				
	10.2.2	SEC.LSMS.VAL.ASSOC	D				
6	10.2.2	SEC.SOA.INV.ASSOC.INVK and	R				
7	10.2.3	SEC.LSMS.INV.ASSOC.INVK SEC.SOA.INV.ASSOC.INVSIG and	R				
/	10.2.3	SEC.SOA.INV.ASSOC.INVSIG and SEC.LSMS.INV.ASSOC.INVSIG	K				
8	10.2.4	SEC.SOA.INV.NOT.INVSIG and	R				
	10.2.4	SEC.LSMS.INV.NOT.INVSIG	IX.				
9	10.2.5	SEC.LSMS.INV.CREATE.INVSEQ	R				
10	10.2.6	SEC.LSMS.INV.SET.INVSIG	R				
11	10.2.7	SEC.LSMS.INV.ACTION.INVSYS	R				
12	10.2.7		R	-			
12	10.2.8	SEC.SOA.INV.GET.INVT and SEC.LSMS.INV.GET.INVT	I K				
13	10.2.9	SEC.SOA.INV.DELETE.INVSIG and	R	1			
1.5	10.2.3	SEC.LSMS.INV.DELETE.INVSIG	1				
14	10.2.10	SEC.SOA.INV.ASSOC.ASSOCSP.INVSYS	С	 			
17	10.2.10	MOC InpNPAC-SMS (SOA to NPA)			
1	11.1.1	MOC.SOA.CAP.OP.GET.InpNPAC-SMS	0				
2	11.1.2	MOC.SOA.CAP.NOT.lnpNPAC-SMS-Operational-	R	-			
	11.1.2	Information	K				
3	11.1.3	MOC.SOA.INV.NOT.lnpNPAC-SMS-Operational-	О	 			
	11.1.3	Information					
4	11.1.4	MOC.SOA.CAP.NOT.subscriptionVersionNewNPA-	С	 			
NXX							
5	11.1.5	MOC.SOA.INV.GET.lnpNPAC-SMS	С	<u> </u>			
6	11.1.6	MOC.SOA.INV.NOT.subscriptionVersionNewNPA-	0	 			
U	11.1.0	11100.0011.111 v.1101.subscription versionine with A-		Į	I		

Tes	t Case I	Number and Name	Sev	Date	Result
		NXX	1		
7	11.1.7*	MOC.SOA.CAP.ACT.InpNotificationRecovery	С		
8	11.1.8	MOC.SOA.INV.ACT.lnpNotificationRecovery	С		
9	11.1.9	MOC.SOA.CAP.OP.ACT.lnpRecoveryComplete	С		
10	11.1.10	MOC.SOA.INV.ACT.lnpRecoveryComplete	С		
		MOC InpServiceProvs (SOA to NF		S)	
1	11.2.1	MOC.SOA.CAP.OP.GET.lnpServiceProvs	0	- <i>,</i>	
2	11.2.2	MOC.SOA.INV.GET.lnpServiceProvs	0		
		MOC InpAudits (SOA to NPAC			
1	11.3.1	MOC.SOA.CAP.OP.GET.lnpAudits	0	T	
2	11.3.2	MOC.SOA.INV.GET.lnpAudits	0		
		MOC InpSubscriptions (SOA to NI		S)	
1	11.4.1	MOC.SOA.CAP.OP.GET.lnpSubscriptions	0		
2	11.4.2*	MOC.SOA.CAP.ACT.subscriptionVersionNewSP-	R		
~		Create-Initial			
3	11.4.3*	MOC.SOA.CAP.ACT.subscriptionVersionOldSP-	R		
		Create-Initial			
4	11.4.4*	MOC.SOA.CAP.ACT.subscriptionVersionNewSP-	R		
_	11 4 7	Create-Second	D		
5	11.4.5	MOC.SOA.CAP.ACT.subscriptionVersionOldSP- Create-Second	R		
6	11.4.6	MOC.SOA.CAP.ACT.subscriptionVersionActivate-	С		
	11.1.0	VersionId			
7	11.4.7	MOC.SOA.CAP.ACT.subscriptionVersionActivate-	С		
		TN			
8	11.4.8	MOC.SOA.CAP.ACT.subscriptionVersionActivate-	С		
	11.40	TNRange	D		
9	11.4.9	MOC.SOA.CAP.ACT.subscriptionVersionModify	R		
10	11.4.10	MOC.SOA.CAP.ACT.subscriptionVersionCancel	R		
11	11.4.11	MOC.SOA.CAP.ACT.subscriptionVersionOldSP- CancellationAcknowledge	R		
12	11.4.12	MOC.SOA.CAP.ACT.subscriptionVersionNewSP-	R		
		CancellationAcknowledge			
13	11.4.13	MOC.SOA.CAP.ACT.subscriptionVersionDisconnec	R		
		t			
14	11.4.14	MOC.SOA.CAP.ACT.subscriptionVersionRemoveFr	R		
1.5	11 4 15	omConflict			
15	11.4.15	MOC.SOA.INV.GET.InpSubscriptions	С		
16	11.4.16	MOC.SOA.INV.ACT.subscriptionVersionNewSP-Create	R		
17	11.4.17	MOC.SOA.INV.ACT.subscriptionVersionOldSP-	R		
'	11.7.1/	Create	10		
18	11.4.18	MOC.SOA.INV.ACT.subscriptionVersionActivate	R		
19	11.4.19	MOC.SOA.INV.ACT.subscriptionVersionModify	R		
20	11.4.20	MOC.SOA.INV.ACT.subscriptionVersionCancel	R		
21	11.4.21	MOC.SOA.INV.ACT.subscriptionVersionOldSP-	R		
		CancellationAcknowledge			
22	11.4.22	MOC.SOA.INV.ACT.subscriptionVersionNewSP-	R		
	11 125	CancellationAcknowledge	P		
23	11.4.23	MOC.SOA.INV.ACT.subscriptionVersionDisconnect	R		

Tes	t Case I	Number and Name	Sev	Date	Result
24	11.4.24	MOC.SOA.INV.ACT.subscriptionVersionRemoveFr omConflict	R		
25	11.4.25	MOC.SOA.CAP.ACT.numberPoolBlockCreateAction	С		
26	11.4.26	MOC.SOA.INV.ACT.numberPoolBlockCreateActio	С		
27	11.4.27	MOC.SOA.CAP.NOT.RANGE.subscriptionVersionRange StatusAttributeValueChange	С		
28	11.4.28	MOC.SOA.CAP.NOT.RANGE.subscriptionVersionRange AttributeValueChange	С		
29	11.4.29	MOC.SOA.CAP.NOT.RANGE.subscriptionVersionRange ObjectCreation	С		
30	11.4.30	MOC.SOA.CAP.NOT.RANGE.subscriptionVersionRange DonorSP-CustomerDisconnectDate	С		
31	11.4.31	MOC.SOA.CAP.NOT.RANGE.subscriptionVersionRange CancellationAcknowledgeRequest	С		
32	11.4.32	MOC.SOA.CAP.NOT.RANGE.subscriptionVersionRange NewSP-CreateRequest	С		
33	11.4.33	MOC.SOA.CAP.NOT.RANGE.subscriptionVersionRange OldSP-ConcurrenceRequest	С		
34	11.4.34	MOC.SOA.CAP.NOT.RANGE.subscriptionVersionRange OldSPFinalConcurrenceWindowExpiration	С		
35	11.4.35	MOC.SOA.CAP.NOT.RANGE.subscriptionVersionRange NewSP-FinalCreateWindowExpiration MOC.SOA.CAP.NOT.LIST.subscriptionVersionRangeStat	С		
36	11.4.37	usAttributeValueChange MOC.SOA.CAP.NOT.LIST.subscriptionVersionRangeAttri	С <u>С</u>		
37 37	11.4.37	buteValueChange MOC.SOA.CAP.NOT.LIST.subscriptionVersionRangeObj	C		
<u>38</u>	<u>8</u>	ectCreation			
38 39	11.4. 38 3 8	MOC.SOA.CAP.NOT.LIST.subscriptionVersionRangeDon orSP-CustomerDisconnectDate	С		
39 40	11.4. 39 4 <u>0</u>	MOC.SOA.CAP.NOT.LIST.subscriptionVersionRangeCan cellationAcknowledgeRequest	С		
40 41	11.4. 40 <u>4</u> <u>1</u>	MOC.SOA.CAP.NOT.LIST.subscriptionVersionRangeNew SP-CreateRequest	С		
41 42	11.4. 41 4 2	MOC.SOA.CAP.NOT.LIST.subscriptionVersionRangeOld SP-ConcurrenceRequest	С		
42 43	11.4. 42 4 <u>3</u>	MOC.SOA.CAP.NOT.LIST.subscriptionVersionRangeOld SPFinalConcurrenceWindowExpiration	С		
43	11.4.43	MOC.SOA.CAP.NOT.LIST.subscriptionVersionRangeNew SP-FinalCreateWindowExpiration	E		
44	11.4.44	MOC.SOA.CAP.NOT.LIST.subscriptionVersionRangeNew SP-FinalCreateWindowExpiration	С		
45	11.4.45	MOC.SOA.INV.NOT.RANGE.subscriptionVersionRangeS tatusAttributeValueChange	О		
46	11.4.46	MOC.SOA.INV.NOT.RANGE.subscriptionVersionRange AttributeValueChange	О		
47	11.4.47	MOC.SOA.INV.NOT.RANGE.subscriptionVersionRange ObjectCreation	О		
48	11.4.48	MOC.SOA.INV.NOT.RANGE.subscriptionVersionRange DonorSP-CustomerDisconnectDate	О		
49	11.4.49	MOC.SOA.INV.NOT.RANGE.subscriptionVersionRangeC ancellationAcknowledgeRequest	О		
50	11.4.50	MOC.SOA.INV.NOT.RANGE.subscriptionVersionRange NewSP-CreateRequest	О		

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51	11.4.51	MOC.SOA.INV.NOT.RANGE.subscriptionVersionRange	О		
		OldSP-ConcurrenceRequest			
52	11.4.52	MOC.SOA.INV.NOT.RANGE.subscriptionVersionRange OldSPFinalConcurrenceWindowExpiration	О		
53	11.4.53	MOC.SOA.INV.NOT.RANGE.subscriptionVersionRange	О		
33	11	NewSP-FinalCreateWindowExpiration			
		MOC InpNetwork (SOA to NPA	C SMS)		
1	11.5.1	MOC.SOA.CAP.OP.GET.lnpNetwork	О		
2	11.5.2	MOC.SOA.INV.GET.lnpNetwork	C		
3	11.5.3	MOC.SOA.CAP.ACT.lnpNetwork.lnpDownload	С		
4	11.5.4	MOC.SOA.INV.ACT.lnpNetwork.lnpDownload	С		
5	11.5.5	MOC.SOA.VAL.lnpDownload-NPA-NXX-X	C		
		MOC serviceProv (SOA to NPA	C SMS)		
1	11.6.1	MOC.SOA.CAP.OP.SET.serviceProv	С		
2	11.6.2	MOC.SOA.CAP.OP.GET.serviceProv	О		
3	11.6.3	MOC.SOA.VAL.SET.SING.serviceProv	С		
4	11.6.4	MOC.SOA.VAL.SET.SING.COND.serviceProv	С		
5	11.6.5	MOC.SOA.VAL.SET.MULT.serviceProv	С		
6	11.6.6	MOC.SOA.INV.SET.serviceProv	С		
7	11.6.7	MOC.SOA.INV.GET.serviceProv	С		
8	11.6.8	MOC.SOA.BND.MIN.SET.serviceProv	С		
9	11.6.9	MOC.SOA.BND.MAX.SET.serviceProv	С		
		MOC subscriptionAudit (SOA to N		IS)	
1	11.7.1	MOC.SOA.CAP.OP.CRE.subscriptionAudit	С		
2	11.7.2	MOC.SOA.CAP.OP.GET.subscriptionAudit	О		
3	11.7.3	MOC.SOA.CAP.OP.DEL.subscriptionAudit	О		
4	11.7.4	MOC.SOA.CAP.NOT.subscriptionAuditResults	С		
5	11.7.5	MOC.SOA.CAP.NOT.subscriptionAudit-	С		
6	11.7.6	DiscrepancyReport MOC.SOA.VAL.CRE.AUTO.subscriptionAudit	0		
7	11.7.7	MOC.SOA.VAL.CRE.AOTO.subscriptionAudit	0		
8	11.7.7	MOC.SOA.VAL.GET.SCOP.FILT.SubscriptionAudit MOC.SOA.VAL.DEL.SCOP.subscriptionAudit	0		
9	11.7.9	MOC.SOA.INV.CRE.subscriptionAudit	C		
10	11.7.10	MOC.SOA.INV.GET.subscriptionAudit	C		
11	11.7.11	MOC.SOA.INV.DEL.subscriptionAudit	C		
12	11.7.11	MOC.SOA.INV.DEL.subscriptionAuditResults	0	-	
13	11.7.12	MOC.SOA.INV.NOT.subscriptionAudit-	0	-	+
13	11./.13	DiscrepancyReport			
14	11.7.14	MOC.SOA.INV.CAP.OP.CRE.subscriptionAudit	О		
		MOC subscriptionVersionNPAC (SOA	to NPAC	SMS)	
1	11.8.1	MOC.SOA.CAP.OP.SET.OldSP.subscriptionVersion	О		
		NPAC			
2	11.8.2	MOC.SOA.CAP.OP.SET.NewSP.subscriptionVersion	О		
2	11.0.2	NPAC			
3	11.8.3	MOC.SOA.CAP.NOT sub-agricular Version Old SP	0		
4	11.8.4	MOC.SOA.CAP.NOT.subscriptionVersionOldSP- ConcurrenceRequest	R		
5	11.8.5	MOC.SOA.CAP.NOT.subscriptionVersionOldSP-	R	-	
-	11.0.0	FinalConcurrenceWindowExpiration			

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6	11.8.6	MOC.SOA.CAP.NOT.subscriptionVersionNewSP-	R		
		CreateRequest			
7	11.8.7	MOC.SOA.CAP.NOT.subscriptionVersionCancellati	R		
		onAcknowledgeRequest			
8	11.8.8	MOC.SOA.CAP.NOT.subscriptionVersionDonorSP-	R		
		CustomerDisconnectDate			
9	11.8.9	MOC.SOA.VAL.SET.SING.subscriptionVersionNPA	О		
10	11.0.10	C			
10	11.8.10	MOC.SOA.VAL.SET.MULT.subscriptionVersionNP	О		
11	11.8.11	AC MOC.SOA.VAL.GET.SCOP.subscriptionVersionNP	0	-	
11	11.6.11	AC			
12	11.8.12	MOC.SOA.VAL.NOT.subscriptionVersionNewNPA-	R		
12	11.0.12	NXX	10		
13	11.8.13	MOC.SOA.VAL.NOT.subscriptionVersionStatusAttr	R		
		ibuteValueChange			
14	11.8.14	MOC.SOA.INV.SET.SING.subscriptionVersionNPA	С		
		C			
15	11.8.15	MOC.SOA.INV.GET.subscriptionVersionNPAC	С		
16	11.8.16	MOC.SOA.INV.NOT.subscriptionVersionOldSp-	О		
		ConcurrenceRequest			
17	11.8.17	MOC.SOA.INV.NOT.subscriptionVersionNewSP-	О		
10	11.0.10	CreateRequest			
18	11.8.18	MOC.SOA.INV.NOT.subscriptionVersionCancellatio	О		
10	11 0 10	nAcknowledgeRequest			
19	11.8.19	MOC.SOA.INV.NOT.subscriptionVersionDonorSP- CustomerDisconnectDate	О		
20	11.8.20	MOC.SOA.INV.NOT.subscriptionVersionStatusAttri	0	1	
20	11.6.20	bute Value Change			
21	11.8.21	MOC.SOA.INV.NOT.	0		
		attributeValueChange.subscriptionVersion			
22	11.8.22	MOC.SOA.INV.NOT.subscriptionVersionNewNPA-	О		
		NXX			
23	11.8.23	MOC.SOA.BND.GET.MAXQ.subscriptionVersionN	R		
		PAC			
24	11.8.24	MOC.SOA.INV.QUERY.SCOPED.subscriptionVersi	С		
125	11 0 25	MOC SOA CARNOT subscription Varsion NaveSD	C	<u> </u>	
25	11.8.25	MOC.SOA.CAP.NOT.subscriptionVersionNewSP- FinalCreateWindowExpiration	С		
26	11.8.26	MOC.SOA.INV.NOT.subscriptionVersionNewSP-	0	 	
		FinalCreateWindowExpiration		<u> </u>	
		MOC serviceProvNetwork (SOA to I	NPAC S	MS)	
1	11.9.1	MOC.SOA.CAP.OP.GET.serviceProvNetwork	О		
2	11.9.2	MOC.SOA.INV.GET.serviceProvNetwork	О		
		MOC serviceProvNPA-NXX (SOA to	NPAC S	MS)	
1	11.10.1	MOC.SOA.CAP.OP.GET.serviceProvNPA-NXX	О		
2	11.10.2	MOC.SOA.CAP.OP.DEL.serviceProvNPA-NXX	С	1	
3	11.10.3	MOC.SOA.VAL.CRE.AUTO.serviceProvNPA-NXX	С		
4	11.10.4	MOC.SOA.VAL.GET.SCOP.FILT.serviceProvNPA-	0		
		NXX			
5	11.10.5	MOC.SOA.VAL.DEL.SCOP.FILT.serviceProvNPA-	О		
		NXX			

Tes	t Case I	Number and Name	Sev	Date	Result			
6	11.10.6	MOC.SOA.INV.CRE.serviceProvNPA-NXX	С					
7	11.10.7	MOC.SOA.INV.GET.serviceProvNPA-NXX	С					
8	11.10.8	MOC.SOA.INV.DEL.serviceProvNPA-NXX	С					
	MOC serviceProvLRN (SOA to NPAC SMS)							
1	11.11.1	MOC.SOA.CAP.OP.GET.serviceProvLRN	О					
2	11.11.2	MOC.SOA.CAP.OP.DEL.serviceProvLRN	С					
3	11.11.3	MOC.SOA.VAL.CRE.AUTO.serviceProvLRN	С					
4	11.11.4	MOC.SOA.VAL.GET.SCOP.FILT.serviceProvLRN	О					
5	11.11.5	MOC.SOA.VAL.DEL.SCOP.FILT.serviceProvLRN	О					
6	11.11.6	MOC.SOA.INV.CRE.serviceProvLRN	С					
7	11.11.7	MOC.SOA.INV.GET.serviceProvLRN	С					
8	11.11.8	MOC.SOA.INV.DEL.serviceProvLRN	С					
		MOC numberPoolBlockNPAC (SOA to	NPAC	SMS)				
1	11.12.1	MOC.SOA.CAP.OP.GET.numberPoolBlockNPAC	О					
2	11.12.2	MOC.SOA.CAP.OP.SET.numberPoolBlockNPAC	С					
3	11.12.3	MOC.SOA.VAL.GET.SCOP.numberPoolBlockNPA	О					
4	11.12.4	MOC.SOA.INV.GET.numberPoolBlockNPAC	О					
5	11.12.5	MOC.SOA,INV.SET.numberPoolBlockNPAC	С					
6	11.12.6	MOC.SOA.INV.GET.SCOP.numberPoolBlockNPAC	О					
		MOC numberPoolBlockNPAC (SOA to	NPAC	SMS)	•			
1	11.13.1	MOC.SOA.CAP.OP.GET.serviceProvNPA-NXX-X	О					
2	11.13.2	MOC.SOA.VAL.GET.SCOP.serviceProvNPANXX-	О					
		X						
3	11.13.3	MOC.SOA.INV.GET.serviceProvNPANXX-X	О					
4	11.13.4	MOC.SOA.INV.GET.SCOP.serviceProvNPANXX-X	0					
		MOC InpSOA (NPAC SMS to						
1	12.1.1	MOC.NPAC.CAP.OP.GET.lnpSOA	О					
2	12.1.2	MOC.NPAC.INV.CRE.INH.lnpSOA	О					
3	12.1.3	MOC.NPAC.INV.SET.lnpSOA	0					
4	12.1.4	MOC.NPAC.INV.DEL.lnpSOA	О					
		MOC InpNetwork (NPAC SMS to						
1	12.2.1	MOC.NPAC.SOA.CAP.OP.GET.lnpNetwork	0					
2	12.2.2	MOC.NPAC.SOA.INV.CRE.INH.lnpNetwork	0					
3	12.2.3	MOC.NPAC.SOA.INV.SET.InpNetwork	0					
4	12.2.4	MOC.NPAC.SOA.INV.ACT.lnpNetwork	0					
5	12.2.5	MOC.NPAC.SOA.INV.DEL.lnpNetwork	0					
		MOC serviceProvNetwork (NPAC S		OA)	T			
1	12.3.1	MOC.NPAC.SOA.CAP.OP.CRE.serviceProvNetwor k	С					
2	12.3.2	MOC.NPAC.SOA.CAP.OP.GET.serviceProvNetwor k	О					
3	12.3.3	MOC.NPAC.SOA.CAP.OP.SET.serviceProvNetwork	С					
4	12.3.4	MOC.NPAC.SOA.CAP.OP.DEL.serviceProvNetwor	С					
<u> </u>	12.2.5	k						
5	12.3.5	MOC.NPAC.SOA.INV.CRE.DUP.serviceProvNetwo rk	О					
6	12.3.6	MOC.NPAC.SOA.INV.SET.RO.serviceProvNetwork	0					

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7	12.3.7	MOC.NPAC.SOA.INV.SET.SYN.serviceProvNetwo	О		
		rk			
8	12.3.8	MOC.NPAC.SOA.INV.SET.serviceProvNetwork	О		
9	12.3.9	MOC.NPAC.SOA.INV.GET.serviceProvNetwork	О		
10	12.3.10	MOC.NPAC.SOA.INV.DEL.serviceProvNetwork	С		
11	12.3.11	MOC.NPAC.SOA.INV.DEL.CO.serviceProvNetwor k	С		
12	12.3.12	MOC.NPAC.SOA.BND.SET.MIN.serviceProvNetw ork	С		
13	12.3.13	MOC.NPAC.SOA.BND.SET.MAX.serviceProvNetw ork	С		
		MOC serviceProvNPA-NXX (NPAC S	MS to S	SOA)	
1	12.4.1	MOC.NPAC.SOA.CAP.OP.CRE.serviceProvNPA- NXX	С		
2	12.4.2	MOC.NPAC.SOA.CAP.OP.DEL.serviceProvNPA- NXX	С		
3	12.4.3	MOC.NPAC.SOA.INV.CRE.DUP.serviceProvNPA-NXX	С		
4	12.4.4	MOC.NPAC.SOA.INV.SET.serviceProvNPA-NXX	О		
5	12.4.5	MOC.NPAC.SOA.INV.DEL.serviceProvNPA-NXX	С		
		MOC serviceProvLRN (NPAC SMS	to SO	A)	
1	12.5.1	MOC.NPAC.SOA.CAP.OP.CRE.serviceProvLRN	С		
2	12.5.2	MOC.NPAC.SOA.CAP.OP.DEL.serviceProvLRN	С		
3	12.5.3	MOC.NPAC.SOA.INV.CRE.DUP.serviceProvLRN	С		
4	12.5.4	MOC.NPAC.SOA.INV.SET.serviceProvLRN	О		
5	12.5.5	MOC.NPAC.SOA.INV.DEL.serviceProvLRN	С		
		MOC numberPoolBlock (NPAC SM	S to SC)A)	
1	12.6.1	MOC.SOA.CAP.NOT.	С		
		numberPoolBlockAttributeValueChange			
2	12.6.2	MOC.SOA.CAP.NOT.numberPoolBlockStatusAttrib	С		
		uteValueChange			
		MOC serviceProvNPA-NXX-X (NPAC		SOA)	
1	12.7.1	MOC.NPAC.SOA.CAP.OP.CRE.serviceProvNPA- NXX-X	С		
2	12.7.2	MOC.NPAC.SOA.CAP.OP.SET.serviceProvNPA- NXX-X	С		
3	12.7.3	MOC.NPAC.SOA.CAP.OP.DEL.serviceProvNPA- NXX-X	С		
4	12.7.4	MOC.NPAC.SOA.INV.CRE.DUP.serviceProvNPA-NXX-X	С		
5	12.7.5	MOC.NPAC.SOA.INV.SET.serviceProvNPA-NXX-X	О		
6	12.7.6	MOC.NPAC.SOA.INV.DEL.serviceProvNPA-NXX-X	С		
		MOC InpNPAC-SMS (LSMS to NP	AC SMS	S)	
1	13.1.1	MOC.LSMS.CAP.OP.GET.lnpNPAC-SMS	О		
2	13.1.2	MOC.LSMS.CAP.OP.ACT.lnpRecoveryComplete	R		
3	13.1.3	MOC.LSMS.CAP.NOT.lnpNPAC-SMS-Operational-Information	R		
4	13.1.4	MOC.LSMS.INV.GET.lnpNPAC-SMS	О		
			•	•	

Tes	t Case I	Number and Name	Sev	Date	Result
5	13.1.5	MOC.LSMS.INV.ACT.InpRecoveryComplete	R		
6	13.1.6	MOC.LSMS.INV.NOT.lnpNPAC-SMS-Operational-Information	О		
7	13.1.7	MOC.LSMS.CAP.NOT.subscriptionVersionNewNP A-NXX	R		
8	13.1.8	MOC.LSMS.INV.NOT.subscriptionVersionNewNPA -NXX	О		
9	13.1.9	MOC.LSMS.CAP.ACT.lnpNotificationRecovery	С		
10	13.1.10	MOC.LSMS.INV.ACT.lnpNotificationRecovery	С		
		MOC InpServiceProv (LSMS to NF	PAC SM	S)	
1	13.2.1	MOC.LSMS.CAP.OP.GET.lnpServiceProvs	О		
2	13.2.2	MOC.LSMS.INV.GET.lnpServiceProvs	О		
		MOC InpSubscription (LSMS to N	PAC SM	S)	
1	13.3.1	MOC.LSMS.CAP.OP.GET.lnpSubscriptions	О		
2	13.3.2	MOC.LSMS.CAP.ACT.lnpSubscriptions.lnpDownlo ad	R		
3	13.3.3	MOC.LSMS.INV.GET.lnpSubscriptions	О		
4	13.3.4	MOC.LSMS.INV.ACT.lnpSubscriptions	R		
5	13.3.5	MOC.LSMS.VAL.lnpDownload-NumberPoolBlock	С		
		MOC InpNetwork (LSMS to NPA	C SMS)	•	
1	13.4.1	MOC.LSMS.CAP.OP.GET.lnpNetwork	О		
2	13.4.2	MOC.LSMS.CAP.ACT.lnpNetwork.lnpDownload	R		
3	13.4.3	MOC.LSMS.INV.GET.lnpNetwork	О		
4	13.4.4	MOC.LSMS.INV.ACT.lnpNetwork	R		
5	13.4.5	MOC.LSMS.VAL.lnpDownload-NPA-NXX-X	С		
		MOC serviceProv (LSMS to NPA	C SMS)		
1	13.5.1	MOC.LSMS.CAP.OP.SET.serviceProv	С		
2	13.5.2	MOC.LSMS.CAP.OP.GET.serviceProv	О		
3	13.5.3	MOC.LSMS.VAL.SET.SING.serviceProv	С		
4	13.5.4	MOC.LSMS.VAL.SET.SING.COND.serviceProv	С		
5	13.5.5	MOC.LSMS.VAL.SET.MULT.serviceProv	С		
6	13.5.6	MOC.LSMS.INV.SET.serviceProv	С		
7	13.5.7	MOC.LSMS.INV.GET.serviceProv	С		
8	13.5.8	MOC.LSMS.BND.MIN.SET.serviceProv	С		
9	13.5.9	MOC.LSMS.BND.MAX.SET.serviceProv	С		
		MOC IsmsFilterNPA-NXX (LSMS to	NPAC S	MS)	
1	13.6.1	MOC.LSMS.CAP.OP.CRE.lsmsFilterNPA-NXX	С		
2	13.6.2	MOC.LSMS.CAP.OP.GET.lsmsFilterNPA-NXX	О		
3	13.6.3	MOC.LSMS.CAP.OP.DEL.lsmsFilterNPA-NXX	С		
4	13.6.4	MOC.LSMS.VAL.CRE.AUTO.lsmsFilterNPA-NXX	С		
5	13.6.5	MOC.LSMS.VAL.GET.SCOP.FILT.lsmsFilterNPA-NXX	О		
6	13.6.6	MOC.LSMS.VAL.DEL.SCOP.FILT.lsmsFilterNPA-NXX	О		
7	13.6.7	MOC.LSMS.INV.CRE.lsmsFilterNPA-NXX	С		
8	13.6.8	MOC.LSMS.INV.GET.lsmsFilterNPA-NXX	С		
9	13.6.9	MOC.LSMS.INV.DEL.lsmsFilterNPA-NXX	С		
		MOC subscriptionVersionNPAC (LSMS	to NPA	C SMS)	•

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1	13.7.1	MOC.LSMS.CAP.OP.GET.subscriptionVersionNPA	О		
		C			
2	13.7.2	MOC.LSMS.CAP.NOT.subscriptionVersionNewNP	R		
	12.7.2	A-NXX			
3	13.7.3	MOC.LSMS.VAL.GET.SCOP.subscriptionVersionN PAC	О		
4	13.7.4	MOC.LSMS.INV.GET.subscriptionVersionNPAC	0		
5	13.7.5	MOC.LSMS.INV.NOT.subscriptionVersionNPAC	0		
6	13.7.6	MOC.LSMS.BND.GET.MAXQ.subscriptionVersion	C		
	13.7.0	NPAC			
7	13.7.7	MOC.LSMS.INV.QUERY.SCOPED.subscriptionVer	С		
		sion			
		MOC serviceProvNetwork (LSMS to		SMS)	
1	13.8.1	MOC.LSMS.CAP.OP.GET.serviceProvNetwork	О	ļ	
2	13.8.2	MOC.LSMS.INV.GET.serviceProvNetwork	О		
		MOC serviceProvNPA-NXX (LSMS to		SMS)	
1	13.9.1	MOC.LSMS.CAP.OP.GET.serviceProvNPA-NXX	О		
2	13.9.2	MOC.LSMS.CAP.OP.DEL.serviceProvNPA-NXX	C	ļ	
3	13.9.3	MOC.LSMS.VAL.CRE.AUTO.serviceProvNPA-	С		
4	13.9.4	NXX MOC.LSMS.VAL.GET.SCOP.FILT.serviceProvNPA	0		
4	13.9.4	-NXX			
5	13.9.5	MOC.LSMS.VAL.DEL.SCOP.FILT.serviceProvNPA	О		
		-NXX			
6	13.9.6	MOC.LSMS.INV.CRE.serviceProvNPA-NXX	С		
7	13.9.7	MOC.LSMS.INV.GET.serviceProvNPA-NXX	0		
8	13.9.8	MOC.LSMS.INV.DEL.serviceProvNPA-NXX	С		
1	12.10.1	MOC serviceProvLRN(LSMS to NI		S)	
1	13.10.1	MOC.LSMS.CAP.OP.GET.serviceProvLRN	0		
2	13.10.2	MOC.LSMS.CAP.OP.DEL.serviceProvLRN	C		
3	13.10.3	MOC.LSMS.VAL.CRE.AUTO.serviceProvLRN MOC.LSMS.VAL.GET.SCOP.FILT.serviceProvLRN	C		
5		MOC.LSMS.VAL.GET.SCOP.FILT.serviceProvLRN MOC.LSMS.VAL.DEL.SCOP.FILT.serviceProvLRN	0		
	13.10.5		C		
7	13.10.6	MOC.LSMS.INV.CRE.serviceProvLRN MOC.LSMS.INV.GET.serviceProvLRN	0		
8	13.10.7	MOC.LSMS.INV.DEL.serviceProvLRN	C		
0	13.10.8	MOC numberPoolBlockNPAC (LSMS t		: SMS)	
1	13.11.1	MOC.LSMS.CAP.OP.GET.numberPoolBlockNPAC	ONFAC		
2	13.11.2	MOC.LSMS.VAL.GET.SCOP.numberPoolBlockNP	0		
_	19.11.2	AC			
3	13.11.3	MOC.LSMS.INV.GET.numberPoolBlockNPAC	О		
4	13.11.4	MOC.LSMS.INV.GET.SCOP.numberPoolBlockNPA	О		
		С			
	10.1.	MOC serviceProvNPA-NXX-X (LSMS t		SMS)	
1	13.12.1	MOC.LSMS.CAP.OP.GET.serviceProvNPA-NXX-X	0		
2	13.12.2	MOC.LSMS.VAL.GET.SCOP.serviceProvNPA-	О		
3	13.12.3	NXX-X MOC.LSMS.INV.GET.serviceProvNPA-NXX-X	0		
4	13.12.3	MOC.LSMS.INV.GET.SCOP.serviceProvNPA-	0		
	13.12.4	INIOC.LONIO.IIN V.OE I.OCOF.SCIVICCFIUVINFA-			

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		NXX-X						
MOC InpLocalSMS (NPAC SMS to LSMS)								
1	14.1.1	MOC.NPAC.CAP.OP.GET.InpLocalSMS	О					
2	14.1.2	MOC.NPAC.INV.CRE.INH.lnpLocalSMS	О					
3	14.1.3	MOC.NPAC.INV.SET.lnpLocalSMS	О					
4	14.1.4	MOC.NPAC.INV.DEL.lnpLocalSMS	О					
5	14.1.5	MOC.LSMS.CAP.NOT.lnpNPAC-SMS-Operational-	R					
	Information MOC InpSubscriptions (NPAC SMS to LSMS)							
1	14.2.1		O	13)	T			
2	14.2.1	MOC.NPAC.CAP.OP.GET.lnpSubscriptions MOC.NPAC.CAP.OP.ACT.lnpSubscriptions	R					
3	14.2.3	MOC.NPAC.CAP.OP.NOT.InpSubscriptions	R					
4	14.2.4	MOC.NPAC.INV.CRE.INH.lnpSubscriptions	0					
5	14.2.4	MOC.NPAC.INV.CKE.INT.InpSubscriptions MOC.NPAC.INV.SET.InpSubscriptions	0					
6	14.2.5	MOC.NPAC.INV.ACT.SYN.ID.InpSubscriptions	0					
7	14.2.7	MOC.NPAC.INV.ACT.SYN.ID.InpSubscriptions MOC.NPAC.INV.ACT.SYN.CLS.InpSubscriptions	0					
8	14.2.7	MOC.NPAC.INV.ACT.InpSubscriptions MOC.NPAC.INV.ACT.InpSubscriptions	0					
9	14.2.8	MOC.NPAC.INV.ACT.Inpsubscriptions MOC.NPAC.INV.NOT.InpSubscriptions	R					
10	14.2.10	MOC.NPAC.INV.NOT.Inpsubscriptions MOC.NPAC.INV.DEL.InpSubscriptions	0					
10	14.2.10	MOC InpNetwork (NPAC SMS to	_					
1	14.3.1	MOC.NPAC.CAP.OP.GET.InpNetwork	0	1				
2	14.3.1	MOC.NPAC.INV.CRE.INH.lnpNetwork	0					
3	14.3.3	MOC.NPAC.INV.SET.InpNetwork	0					
4	14.3.4	MOC.NPAC.INV.ACT.InpNetwork	0					
5	14.3.5	MOC.NPAC.INV.DEL.InpNetwork	0					
	14.3.3	MOC subscriptionVersion (NPAC SN		MS)				
1	14.4.1	MOC.NPAC.CAP.OP.CRE.subscriptionVersion	R		Ì			
2	14.4.2	MOC.NPAC.CAP.OP.SET.subscriptionVersion	R					
3	14.4.3	MOC.NPAC.CAP.OP.GET.subscriptionVersion	R					
4	14.4.4	MOC.NPAC.CAP.OP.DEL.subscriptionVersion	R					
5	14.4.5	MOC.NPAC.VAL.SET.SING.subscriptionVersion	R					
6	14.4.6	MOC.NPAC.VAL.SET.MULT.subscriptionVersion	R					
7	14.4.7	MOC.NPAC.VAL.SET.SCOP.FILT.subscriptionVersi	R					
		on						
8	14.4.8	MOC.NPAC.VAL.GET.SCOP.FILT.subscriptionVers ion	R					
9	14.4.9	MOC.NPAC.VAL.DEL.SCOP.FILT.subscriptionVers	R					
10	14.4.10	MOC.NPAC.INV.CRE.subscriptionVersion	0					
11	14.4.11	MOC.NPAC.INV.SET.RO.subscriptionVersion	0					
12	14.4.12	MOC.NPAC.INV.SET.MULT.subscriptionVersion	0					
13	14.4.13	MOC.NPAC.INV.SET.SYN.subscriptionVersion	О					
14	14.4.14	MOC.NPAC.INV.SET.SCOP.subscriptionVersion	R					
15	14.4.15	MOC.NPAC.INV.DEL.SCOP.subscriptionVersion	R					
16	14.4.16	MOC.NPAC.BND.SET.MIN.subscriptionVersion	R					
17	14.4.17	MOC.NPAC.BND.SET.MAX.subscriptionVersion	R					
		MOC serviceProvNetwork (NPAC SN	IS to LS	MS)				

Tes	t Case I	Number and Name	Sev	Date	Result			
1	14.5.1	MOC.NPAC.CAP.OP.CRE.serviceProvNetwork	R					
2	14.5.2	MOC.NPAC.CAP.OP.GET.serviceProvNetwork	О					
3	14.5.3	MOC.NPAC.CAP.OP.SET.serviceProvNetwork	R					
4	14.5.4	MOC.NPAC.CAP.OP.DEL.serviceProvNetwork	R					
5	14.5.5	MOC.NPAC.INV.CRE.DUP.serviceProvNetwork	R					
6	14.5.6	MOC.NPAC.INV.SET.RO.serviceProvNetwork	О					
7	14.5.7	MOC.NPAC.INV.SET.SYN.serviceProvNetwork	О					
8	14.5.8	MOC.NPAC.INV.SET.serviceProvNetwork	О					
9	14.5.9	MOC.NPAC.INV.GET.serviceProvNetwork	О					
10	14.5.10	MOC.NPAC.INV.DEL.serviceProvNetwork	R					
11	14.5.11	MOC.NPAC.INV.DEL.CO.serviceProvNetwork	R					
12	14.5.12	MOC.NPAC.BND.SET.MIN.serviceProvNetwork	R					
13	14.5.13	MOC.NPAC.BND.SET.MAX.serviceProvNetwork	R					
		MOC serviceProvNPA-NXX (NPAC S	MS to L	SMS)				
1	14.6.1	MOC.NPAC.CAP.OP.CRE.serviceProvNPA-NXX	R					
2	14.6.2	MOC.NPAC.CAP.OP.DEL.serviceProvNPA-NXX	R					
3	14.6.3	MOC.NPAC.INV.CRE.DUP.serviceProvNPA-NXX	R					
4	14.6.4	MOC.NPAC.INV.SET.serviceProvNPA-NXX	О					
5	14.6.5	MOC.NPAC.INV.DELserviceProvNPA-NXX	R					
		MOC serviceProvLRN (NPAC SMS	to LSM	IS)				
1	14.7.1	MOC.NPAC.CAP.OP.CRE.serviceProvLRN	R					
2	14.7.2	MOC.NPAC.CAP.OP.DEL.serviceProvLRN	R					
3	14.7.3	MOC.NPAC.INV.CRE.DUP.serviceProvLRN	R					
4	14.7.4	MOC.NPAC.INV.SET.serviceProvLRN	О					
5	14.7.5	MOC.NPAC.INV.DEL.serviceProvLRN	R					
		MOC numberPoolBlock (NPAC SM		MS)	1			
1	14.8.1	MOC.NPAC.CAP.OP.CRE.numberPoolBlock	С					
2	14.8.2	MOC.NPAC.CAP.OP.SET.numberPoolBlock	С					
3	14.8.3	MOC.NPAC.CAP.OP.GET.numberPoolBlock	С					
4	14.8.4	MOC.NPAC.CAP.OP.GET.MULTIPLE.numberPool Block	С					
5	14.8.5	MOC.NPAC.CAP.OP.DEL.numberPoolBlock	С					
6	14.8.6	MOC.NPAC.CAP.OP.SET.SING.numberPoolBlock	С					
7	14.8.7	MOC.NPAC.CAP.OP.SET.MULT.numberPoolBlock	С					
8	14.8.8	MOC.NPAC.INV.CRE.numberPoolBlock	О					
9	14.8.9	MOC.NPAC.INV.SET.numberPoolBlock	О					
10	14.8.10	MOC.NPAC.INV.DEL.numberPoolBlock	С					
		MOC serviceProvNPA-NXX-X (NPAC S		LSMS)				
1	14.9.1	MOC.NPAC.CAP.OP.CRE.serviceProvNPA-NXX-X	С					
2	14.9.2	MOC.NPAC.CAP.OP.SET.serviceProvNPA-NXX-X	С					
3	14.9.3	MOC.NPAC.CAP.OP.DEL.serviceProvNPA-NXX-X	С					
4	14.9.4	MOC.NPAC.INV.CRE.DUP.serviceProvNPA-NXX-	С					
<u> </u>		X			ļ			
5	14.9.5	MOC.NPAC.INV.SET.serviceProvNPA-NXX-X	0					
6	14.9.6	MOC.NPAC.INV.DEL.serviceProvNPA-NXX-X	C					
	Association Management							

Tes	t Case I	Number and Name	Sev	Date	Result
1	15.1.1	AMG.SOA.ASSOC.SAME and	R		
		AMG.LSMS.ASSOC.SAME			
2	15.1.2	AMG.SOA.ASSOC.OTHER and	R		
		AMG.LSMS.ASSOC.OTHER			
3	15.1.3	AMG.SOA.REQTMOT and	О		
4	15.1.4	AMG.LSMS.REQTMOT AMG.SOA.RETRY.CMIP and	0		
4	13.1.4	AMG.LSMS.RETRY.CMIP			
5	15.1.5	AMG.SOA.RETRY.ASSOC and	0		
		AMG.LSMS.RETRY.ASSOC			
6	15.1.6	AMG.SOA.SECVIOL and AMG.LSMS.SECVIOL	R		
7	15.1.7	AMG.SOA.LOSS and AMG.LSMS.LOSS	R		
8	15.1.8	AMG.SOA.DOWN and AMG.LSMS.DOWN	R		
		Audit App-to-App		•	
1	16.1.1	A2A.LSMS.VAL.MISSVER.subscriptionAudit	R		
2	16.1.2	A2A.LSMS.VAL.OBSVER.subscriptionAudit	R		
3	16.1.3	A2A.LSMS.VAL.ERRVER.subscriptionAudit	R		
4	16.1.4	A2A.SOA.VAL.NODIS.TN.subscriptionAudit	С		
5	16.1.5	A2A.SOA.VAL.NODIS.TNRNG.subscriptionAudit	0		
6	16.1.6	A2A.SOA.VAL.NODIS.ACTRNG.subscriptionAudi	0		
		t			
7	16.1.7	A2A.SOA.VAL.WITHDIS.TN.subscriptionAudit	R		
8	16.1.8	A2A.SOA.VAL.WITHDIS.TNRNG.subscriptionAud	С		
	1610	it			
9	16.1.9	A2A.SOA.VAL.WITHDIS.ACTRNG.subscriptionA	О		
10	16.1.10	udit A2A.SOA.VAL.NPACCNCLD.subscriptionAudit	С		
11	16.1.11	A2A.SOA.INV.CRENOT.TIMOUT.subscriptionAud	0		
11	10.1.11	it			
12	16.1.12	A2A.SOA.VAL.WITHDIS.WSMSC.RANGE.subscr	С		
		iptionAudit			
13	16.1.13	A2A.SOA.VAL.WITHDIS.WSMSC.SINGLE.subscr	С		
		iptionAudit			
14	16.1.14	A2A.SOA.VAL.WITHDIS.ASSOCSP.RANGE.subs	С		
15	16.1.15	criptionAudit A2A.SOA.VAL.WITHDIS.ASSOCSP.SINGLE.subs	С		
13	10.1.13	criptionAudit			
16	16.1.16	A2A.LSMS.VAL.MISSVER.subscriptionAudit.POO	С		
		L			
		Service Provider and Network Data	App-to-	Арр	
1	16.2.1	A2A.LSMS.VAL.CREND.serviceProviderNPA-	С		
	1625	NXX			
2	16.2.2	A2A.LSMS.VAL.DELND.serviceProviderNPA-	С		
3	16.2.3	NXX A2A.LSMS.VAL.CREND.serviceProviderLRN	С	-	
4	16.2.4	A2A.LSMS.VAL.DELND.serviceProviderLRN	C	-	
5	16.2.5	A2A.SOA.CAP.OP.SET.ASSOCSP.serviceProv	C	-	
6	16.2.6	A2A.SOA.CAP.OP.GET.ASSOCSP.serviceProv	0		
7	16.2.7	A2A.SOA.VAL.CREND.ASSOCSP.serviceProvider	C	-	
	10.2./	NPA-NXX			
8	16.2.8	A2A.SOA.VAL.DELND.ASSOCSP.serviceProvider	С		
لــــــــا		1		1	1

Tes	t Case I	Number and Name	Sev	Date	Result					
		NPA-NXX								
9	16.2.9	A2A.SOA.VAL.CREND.ASSOCSP.serviceProvider	С							
		LRN								
19	16.2.10	A2A.SOA.VAL.DELND.ASSOCSP.serviceProvider	С							
		LRN								
	Subscription Version Create Data App-to-App									
1	16.3.1*	A2A.NSOA.VAL.CREATE.TN-	С							
		RANGE.SubscriptionVersion								
2	16.3.2*	A2A.NSOA.VAL.CREATE.CONFLICT.Subscriptio	R							
		nVersion								
3	16.3.3*	A2A.OSOA.VAL.CREATE.TN-	О							
		RANGE.SubscriptionVersion								
4	16.3.4*	A2A.OSOA.VAL.NOCONC.ACTIVATE.Subscriptio	R							
<u> </u>	160.5%	nVersion	D							
5	16.3.5*	A2A.OSOA.VAL.NOCONC.NOACTIVATE.Subscri	R							
(16.3.6*	ptionVersion	R	-						
6	10.3.6*	A2A.OSOA.VAL.CREATE.CONFLICT.Subscription	K							
7	16.3.7*	A2A.NSOA.VAL.CREATE.INTRA-SP-	С	+	+					
'	10.5.7	PORT.SubscriptionVersion								
8	16.3.8*	A2A.DSOA.VAL.PORT-TO-	R							
	10.5.0	ORIG.SubscriptionVersion	IX.							
9	16.3.9*	A2A.NSOA.INV.MISS.INITIAL.CONC.Subscriptio	0							
	10.5.7	nVersion								
10	16.3.10	A2A.NSOA.INV.STATE-TRANS.PEND-	О							
	*	ACTIVE.SubscriptionVersion								
11	16.3.11	A2A.NSOA.INV.STATE-TRANS.PEND-	0							
	*	OLD.SubscriptionVersion								
12	16.3.12	A2A.OSOA.INV.STATE-TRANS.PEND-	О							
	*	OLD.SubscriptionVersion								
13	16.3.13	A2A.OSOA.INV.STATE-TRANS.PEND-	О							
	*	FAILED.SubscriptionVersion								
14	16.3.14	A2A.NSOA.INV.CREATE.ACTIVE.SubscriptionVe	О							
1.	*	rsion								
15	16.3.15	A2A.OSOA.INV.CREATE.SENDING.SubscriptionV	О							
17		ersion								
16	16.3.16	A2A.NSOA.INV.OBJCRE.NOTMISS.SubscriptionV	О							
17	16.3.17	ersion A2A.OSOA.INV.OBJCRE.NOTMISS.SubscriptionV	0	1						
1 /	10.5.17	ersion								
		Subscription Version Activate Data	Ann-to-	Δnn						
1	16.4.1*	A2A.NSOA.VAL.ACTIVATE.BYNPAC.Subscriptio	R	Ι ΑΡ						
1	10.7.1	nVersion	1							
2	16.4.2*	A2A.NSOA.VAL.ACTIVATE.SubscriptionVersion	R							
3	16.4.3*	A2A.NSOA.VAL.ACTIVATE.FAIL.SubscriptionVer	R							
	10.7.3	sion	1							
4	16.4.4*	A2A.NSOA.VAL.ACTIVATE.PARTFAIL.Subscripti	R							
	10.7.7	onVersion								
5	16.4.5*	A2A.OSOA.VAL.ACTIVATE.SubscriptionVersion	R							
6	16.4.6*	A2A.OSOA.VAL.ACTIVATE.FAIL.SubscriptionVer	R	1						
	10.1.0	sion								
7	16.4.7*	A2A.OSOA.VAL.ACTIVATE.PARTFAIL.Subscripti	R	1						
لـــــــــــــــــــــــــــــــــــــ		1	I	1	I.					

Tes	t Case I	Number and Name	Sev	Date	Result
		onVersion			
8	16.4.8*	A2A.NSOA.ACTIVATE.ACTNOTMISS.Subscriptio	0		
		nVersion			
9	16.4.9*	A2A.NSOA.INV.ACTIVATE.PARTFAIL.Subscripti	О		
		onVersion			
10	16.4.10	A2A.OSOA.INV.ACTIVATE.PARTFAIL.Subscripti	0		
	*	onVersion			
11	16.4.11	A2A.NSOA.VAL.ACTIVATE.TN-	С		
	*	RANGE.SubscriptionVersion			
		Subscription Version Modify Data A	App-to-A	App	
1	16.5.1*	A2A.NSOA.VAL.MODIFY.PEND.SubscriptionVersi	R		
		on			
2	16.5.2*	A2A.OSOA.VAL.MODIFY.PEND.SubscriptionVersi	R		
		on			
3	16.5.3*	A2A.SOA.VAL.MODIFY.ACTIVE.SubscriptionVer	R		
		sion			
4	16.5.4*	A2A.SOA.VAL.MODIFY.ACTIVE.TN-	С		
		RANGE.SubscriptionVersion			
5	16.5.5*	A2A.SOA.VAL.MODIFY.BYNPAC.ACTIVE.Subsc	R		
	4 2 7 2 5	riptionVersion			
6	16.5.6*	A2A.SOA.VAL.MODIFY.PARTFAIL.SubscriptionV	R		
	16574	ersion	D	-	
7	16.5.7*	A2A.SOA.VAL.MODIFY.FAIL.SubscriptionVersion	R		
8	16.5.8*	A2A.SOA.INV.MODIFY.PARTFAIL.NOSPLIST.Su	О		
	1650	bscriptionVersion			
9	16.5.9	A2A.SOA.INV.MODIFY.ACTIVE.NOTMISS.Subsc	О		
10	16.5.10	riptionVersion		-	
10	16.5.10	A2A.SOA.INV.MODIFY.ATTRCHNG.NOTMISS.S	О		
11	16.5.11	ubscriptionVersion A2A.SOA.INV.MODIFY.ATTRSAME.NOTMISS.S	0		
11	10.3.11	ubscriptionVersion	0		
12	16.5.12	A2A.SOA.VAL.MODIFY.PEND.TN-	С		
12	10.3.12	RANGE.SubscriptionVersion			
		Subscription Version Cancel Data A	nn-to-A	\ \nn	
1	16.6.1*	A2A.SOA.VAL.CANCEL.SubscriptionVersion	R	, pp	
2		A2A.NSOA.VAL.CANCEL.Subscription Version	R	-	
	10.0.2	Version	\ \ \		
3	16.6.3*	A2A.NSOA.VAL.CANCEL.TN-	С	1	
	10.0.3	RANGE.SubscriptionVersion			
4	16.6.4*	A2A.OSOA.VAL.CANCEL.SubscriptionVersion	R	<u> </u>	
5	16.6.5*	A2A.OSOA.VAL.CANCEL.BYNSOA.Subscription	R		1
	10.0.5	Version Val. CANCEL. B I NSOA. Subscription	``		
6	16.6.6*	A2A.OSOA.VAL.CANCEL.TN-	С	 	
	10.0.0	RANGE.SubscriptionVersion	~		
7	16.6.7*	A2A.OSOA.VAL.CANCEL.NOCONC.Subscription	R	<u> </u>	<u> </u>
	10.0.7	Version	``		
8	16.6.8*	A2A.NSOA.VAL.CANCEL.BYNPAC.Subscription	R	<u> </u>	†
		Version			
9	16.6.9*	A2A.OSOA.VAL.CANCEL.BYNPAC.Subscription	R		
		Version			
10	16.6.10	A2A.NSOA.VAL.CANCEL.ACKREQ.Subscription	R		
	*	Version			

Tos	t Casa I	Number and Name	Sev	Date	Result
\vdash				Date	Nesuit
11	16.6.11	A2A.OSOA.VAL.CANCEL.ACKREQ.Subscription Version	R		
12	16.6.12	A2A.NSOA.INV.CANCEL.CONFLICT.Subscription	R		
13	16.6.13	A2A.NSOA.VAL.CANCEL.CANCELED.Subscripti onVersion	R		
14	16.6.14	A2A.OSOA.VAL.CANCEL.CONFLICT.Subscription	R		
15	16.6.15	A2A.NSOA.INV.CANCEL.PEND.SubscriptionVersi	О		
16	16.6.16	A2A.OSOA.INV.CANCEL.CONFLICT.Subscription	О		
17	16.6.17	A2A.NSOA.INV.CANCEL.ACTIVE.SubscriptionVersion	0		
	•	Subscription Version Disconnect Dat	a Ann-te		
1	16.7.1*	A2A.SOA.VAL.IMMDISC.SubscriptionVersion	C C		1
2	16.7.1*	A2A.SOA.VAL.IMMDISC.SubscriptionVersion	C		
\perp		·		-	
3	16.7.3*	A2A.SOA.VAL.IMMDISC.BYNPAC.SubscriptionV ersion	R		
4	16.7.4*	A2A.SOA.VAL.IMMDISC.FAIL.SubscriptionVersio n	R		
5	16.7.5*	A2A.SOA.VAL.IMMDISC.PARTFAIL.Subscription Version	R		
6	16.7.6*	A2A.SOA.VAL.IMMDISC.TN- RANGE.SubscriptionVersion	С		
7	16.7.7*	A2A.SOA.INV.IMMDISC.ACT.OLD.SubscriptionV ersion	О		
8	16.7.8*	A2A.SOA.INV.IMMDISC.OLD.SubscriptionVersion	О		
9	16.7.9*	A2A.SOA.INV.IMMDISC.FAILED.SubscriptionVer sion	О		
10	16.7.10	A2A.SOA.INV.IMMDISC.OLD.FAILService Provider.SubscriptionVersion	О		
11	16.7.11	A2A.SOA.VAL.CANCEL.DISCPEND.Subscription Version	С		
		Subscription Version Conflict Data	App-to-	App	
1	16.8.1*	A2A.NSOA.VAL.CONFLICT.RESOLV.Subscription Version	R		
2	16.8.2*	A2A.NSOA.VAL.CONFLICT.RESOLV.BYNSOA.S ubscriptionVersion	R		
3	16.8.3*	A2A.OSOA.VAL.CONFLICT.RESOLV.Subscription Version	R		
4	16.8.4*	A2A.OSOA.VAL.CONFLICT.RESOLV.BYOSOA.S ubscriptionVersion	С		
5	16.8.5*	A2A.NSOA.VAL.CONFLICT.RESOLVE.TN-RANGE.BYNSOA.SubscriptionVersion	С		
		LSMS App-to-App			
1	16.9.1	A2A.LSMS.VAL.ACTIVATE.BYNPAC.Subscriptio	R	I	
		nVersion			
2	16.9.2	A2A.LSMS.VAL.MODIFY.BYNPAC.ACTIVE.Subs criptionVersion	R		
3	16.9.3	A2A.LSMS.VAL.IMMDISC.BYNPAC.Subscription Version	R		

Tes	t Case N	Number and Name	Sev	Date	Result
4	16.9.4	A2A.LSMS.VAL.CREATE.MULT.SubscriptionVersi	R		
	10.7.4	on			
5	16.9.5	A2A.LSMS.INV.CREATE.MULT.SubscriptionVersi	О		
		on			
6	16.9.6	A2A.LSMS.INV.CREATE.UNKNOWN.NPA-	О		
		NXX.SubscriptionVersion			
		SOA WSMSC Data App-to-A			
1	16.10.1	A2A.NSOA.VAL.CREATE.WSMSC.SubscriptionVe	C		
	*	rsion		-	
2	16.10.2	A2A.NSOA.VAL.MODIFY.WSMSC.SubscriptionVersion	C		
3	16.10.3	A2A.SOA.VAL.QUERY.WSMSC.SubscriptionVersi	0	-	
	10.10.5	on			
	Į.	LSMS WSMSC Data App-to-	App		
1	16.11.1	A2A.LSMS.VAL.CREATE.WSMSC.SubscriptionVe	C		
		rsion			
2	16.11.2	A2A.LSMS.VAL.CREATE.MULT.WSMSC.Subscri	С		
		ptionVersion			
3	16.11.3	A2A.LSMS.VAL.QUERY.SCOPED.WSMSC.Subscr	С		
	1 < 11 1	iptionVersion			
4	16.11.4	A2A.LSMS.VAL.MODIFY.WSMSC.SubscriptionVe	С		
		rsion	or Ann i	to Ann	
1	16.12.1	Subscription Timer and Business Time A2A.SOA.VAL.QUERY.SUBTIMER.SubscriptionV		io-App	
1	10.12.1	ersion	О		
2	16.12.2	A2A.SOA.VAL.QUERY.BUSTYPE.SubscriptionVer	0		
	10.12.2	sion			
3	16.12.3	A2A.OSOA.VAL.NOT.subscriptionVersionOldSP-	С		
	*	ConcurrenceRequest			
4	16.12.4	A2A.OSOA.VAL.NOT.subscriptionVersionOldSPFi	С		
	*	nalConcurrenceWindowExpiration			
5	16.12.5	A2A.NSOA.VAL.NOT.subscriptionVersionNewSP-	C		
	<u> </u>	CreateRequest Missing Sanding Notification App	n to An	<u> </u>	
1	16 12 1	Missing Sending Notification Ap		l I	
1	16.13.1	A2A.NSOA.VAL.ACTIVATE.NOTMISS.Subscripti on Version	R		
2	16.13.2	A2A.OSOA.VAL.ACTIVATE.NOTMISS.Subscripti	R	 	
-	*	onVersion	*		
3	16.13.3	A2A.SOA.VAL.MODIFY.ACTIVE.NOTMISS.Subs	R		
	*	criptionVersion			
4	16.13.4	A2A.SOA.VAL.IMMDISC.NOTMISS.Subscription	R		
	*	Version	L	L	
		Associated Service Provider App)	
1	16.14.1*	A2A.NSOA.VAL.CREATE.FIRST.ASSOCSP.Subs	C		
	16 14 24	criptionVersion	C	-	
2	16.14.2*	A2A.NSOA.VAL.CREATE.SECOND.ASSOCSP.S ubscriptionVersion	С		
3	16.14.3*	A2A.OSOA.VAL.CREATE.FIRST.ASSOCSP.Subs	С	 	
	10.14.5	criptionVersion			
4	16.14.4*	A2A.OSOA.VAL.CREATE.SECOND.ASSOCSP.S	С		
		ubscriptionVersion			
5	16.14.5*	A2A.OSOA.VAL.NOCONC.ACTIVATE.ASSOCS	С		
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Tes	t Case N	lumber and Name	Sev	Date	Result
		P.SubscriptionVersion			
6	16.14.6*	A2A.NSOA.VAL.ACTIVATE.ASSOCSP.Subscripti onVersion	С		
7	16.14.7*	A2A.NSOA.VAL.MODIFY.PEND.ASSOCSP.Subs	С		
8	16.14.8*	criptionVersion A2A.OSOA.VAL.MODIFY.PEND.ASSOCSP.Subs	C		
8		criptionVersion			
9	16.14.9*	A2A.SOA.VAL.MODIFY.ACTIVE.ASSOCSP.Sub scriptionVersion	С		
10	16.14.10	A2A.NSOA.VAL.CANCEL.ASSOCSP.SubscriptionVersion	С		
11	16.14.11	A2A.OSOA.VAL.CANCEL.ASSOCSP.Subscription	С		
12	16.14.12	A2A.NSOA.VAL.CANCEL.ACKREQ.ASSOCSP. SubscriptionVersion	С		
13	16.14.13	A2A.OSOA.VAL.CANCEL.ACKREQ.ASSOCSP. SubscriptionVersion	С		
14	16.14.14	A2A.SOA.VAL.IMMDISC.ASSOCSP.Subscription Version	С		
15	16.14.15	A2A.SOA.VAL.DEFDISC.ASSOCSP.Subscription Version	С		
16	16.14.16	A2A.NSOA.VAL.CONFLICT.RESOLV.ASSOCSP. SubscriptionVersion	С		
17	16.14.17	A2A.OSOA.VAL.CONFLICT.RESOLV.ASSOCSP. SubscriptionVersion	С		
18	16.14.18	A2A.SOA.VAL.PORT-TO- ORIG.ASSOCSP.SubscriptionVersion	С		
19	16.14.19	A2A.SOA.CAP.ACT.ASSSOCSP.numberPoolBloc kCreateAction	С		
20	16.14.20	A2A.SOA.CAP.OP.SET.ASSOCSP.numberPoolBlockNPAC	С		
		Miscellaneous Scenarios Test	Cases		
1	16.15.1	A2A.SOA.VAL.MISC.ACTION.resync	С		
2	16.15.2	A2A.SOA.INV.MISC.ACTION.resync	0		
3	16.15.3	A2A.SOA.VAL.MISC.ACTION.ASSOCSP.resync	С		
4	16.15.4	A2A.LSMS.VAL.MISC.ACTION.resync	С		
5	16.15.5	A2A.LSMS.INV.MISC.ACTION.resync	0		
<u>6</u>	16.15.6	A2A.SOA.VAL.MISC.ACTION.resync 3 1	C		
		Number Pooling – SOA to NPA			
1	16.16.1	A2A.SOA.VAL.GET.SCOPED.subscriptionVersion. TN-LNPTYPE	О		
		Number Pooling – LSMS to NPA	C SMS		•
1	16.17.1	A2A.LSMS.VAL.GET.SCOPED.subscriptionVersion .TN-LNPTYPE	О		
		Number Pooling –NPAC SMS to	LSMS		
1	16.18.1	A2A.LSMS.VAL.CREATE.BYNPAC.subscriptionVersion.POOL	С		
2	16.18.2	A2A.LSMS.VAL.CREATE.RANGE.BYNPAC.subsc	С		
-		riptionVersion.POOL	1	I	

* This test case must be executed twice if the SOA will be supporting both the "individual" and "range/list" versions of notifications.

Appendix D Standard Regression Test Case Checklist

Tes	t Case I	Name	Sev	Date	Result
		Service Provider	<u> </u>		
1	11.6.2	MOC.SOA.CAP.OP.GET.serviceProv	О		
2	13.5.2	MOC.LSMS.CAP.OP.GET.serviceProv	0		
3	11.6.3	MOC.SOA.VAL.SET.SING.serviceProv	С		
4	13.5.3	MOC.LSMS.VAL.SET.SING.serviceProv	С		
		Network Data			
1	11.10.3	MOC.SOA.VAL.CRE.AUTO.serviceProvNPA-NXX	С		
2	13.9.3	MOC.LSMS.VAL.CRE.AUTO.serviceProvNPA- NXX	С		
3	11.10.2	MOC.SOA.CAP.OP.DEL.serviceProvNPA-NXX	С		
4	13.9.2	MOC.LSMS.CAP.OP.DEL.serviceProvNPA-NXX	C		
5	11.11.3	MOC.SOA.VAL.CRE.AUTO.serviceProvLRN	C		
6	13.10.3	MOC.LSMS.VAL.CRE.AUTO.serviceProvLRN	C		
7	11.11.2	MOC.SOA.CAP.OP.DEL.serviceProvLRN	C		
8	13.10.2	MOC.LSMS.CAP.OP.DEL.serviceProvLRN	C		
9	14.6.1	MOC.NPAC.CAP.OP.CRE.serviceProvNPA-NXX	R	<u> </u>	
10	14.6.2	MOC.NPAC.CAP.OP.DEL.serviceProvNPA-NXX	R	<u> </u>	
11	14.7.1	MOC.NPAC.CAP.OP.CRE.serviceProvLRN	R	<u> </u>	
12	14.7.2	MOC.NPAC.CAP.OP.DEL.serviceProvLRN	R		
13	12.7.1	MOC.NPAC.SOA.CAP.OP.CRE.serviceProvNPA-	C		
14	12.7.2	NXX-X MOC.NPAC.SOA.CAP.OP.SET.serviceProvNPA- NXX-X	С		
15	12.7.3	MOC.NPAC.SOA.CAP.OP.DEL.serviceProvNPA- NXX-X	С		
16	14.9.1	MOC.NPAC.CAP.OP.CRE.serviceProvNPA-NXX-X	С		
17	14.9.2	MOC.NPAC.CAP.OP.SET.serviceProvNPA-NXX-X	С		
18	14.9.3	MOC.NPAC.CAP.OP.DEL.serviceProvNPA-NXX-X	С		
		Subscription Version			
1	11.4.3	MOC.SOA.CAP.ACT.subscriptionVersionOldSP-Create-Initial	R		
2	11.4.2	MOC.SOA.CAP.ACT.subscriptionVersionNewSP-Create-Initial	R		
3	16.3.4	A2A.OSOA.VAL.NOCONC.ACTIVATE.subscription	R		
4	16.3.5	A2A.OSOA.VAL.NOCONC.NOACTIVATE.subscriptionVersion	R		
5	11.4.5	MOC.SOA.CAP.ACT.subscriptionVersionOldSP- Create-Second	R		
6	11.4.4	MOC.SOA.CAP.ACT.subscriptionVersionNewSP- Create-Second	R		
7	16.5.1	A2A.NSOA.VAL.MODIFY.PEND.subscriptionVersi on	R		
8	16.5.2	A2A.OSOA.VAL.MODIFY.PEND.subscriptionVersi on	R		

Tes	t Case I	Name	Sev	Date	Result
9	16.8.2	A2A.NSOA.VAL.CONFLICT.RESOLV.BYNSOA.s	R		
10	16.6.1	ubscriptionVersion A2A.SOA.VAL.CANCEL.subscriptionVersion	R		
11	16.6.4	A2A.OSOA.VAL.CANCEL.subscriptionVersion	R		
12	16.6.2		R		
12	10.0.2	A2A.NSOA.VAL.CANCEL.BYOSOA.subscription Version	K		
13	16.6.5	A2A.OSOA.VAL.CANCEL.BYNSOA.subscription Version	R		
14	16.6.13	A2A.NSOA.VAL.CANCEL.CANCELED.subscripti onVersion	R		
15	16.6.14	A2A.OSOA.VAL.CANCEL.CONFLICT.subscription	R		
16	16.4.2	A2A.NSOA.VAL.ACTIVATE.subscriptionVersion	R		
17	16.3.7	A2A.NSOA.VAL.INTRA-SP- PORT.subscriptionVersion	С		
18	16.3.8	A2A.DSOA.VAL.PORT-TO- ORIG.subscriptionVersion	R		
19	16.4.4	A2A.NSOA.VAL.ACTIVATE.PARTFAIL.subscriptionVersion	R		
20	16.7.1	A2A.SOA.VAL.IMMDISC.subscriptionVersion	С		
21	16.7.2	A2A.SOA.VAL.DEFDISC.subscriptionVersion	С		
22	16.3.1	A2A.NSOA.VAL.CREATE.TN-	С		
		RANGE.subscriptionVersion			
23	16.5.4	A2A.SOA.VAL.MODIFY.ACTIVE.TN-RANGE.subscriptionVersion	С		
24	16.7.6	A2A.SOA.VAL.IMMDISC.TN-	С		
		RANGE.subscriptionVersion			
25	11.8.3	MOC.SOA.CAP.OP.GET.subscriptionVersionNPAC	О		
26	11.8.24	MOC.SOA.INV.QUERY.SCOPED.subscriptionVersi on	С		
27	16.14.1	A2A.NSOA.VAL.CREATE.FIRST.ASSOCSP.SubscriptionVersion	С		
28	13.7.1	MOC.LSMS.CAP.OP.GET.subscriptionVersionNPA	О		
29	14.4.1	MOC.NPAC.CAP.OP.CRE.subscriptionVersion	R		
30	14.2.2	MOC.NPAC.CAP.OP.ACT.lnpSubscriptions	R	1	
31	14.2.3	MOC.NPAC.CAP.OP.NOT.lnpSubscriptions	R	 	
32	14.4.2	MOC.NPAC.CAP.OP.SET subscriptionVersion	R		
33	14.4.7	MOC.NPAC.VAL.SET.SCOP.FILT.subscriptionVersi	R		
34	14.4.8	MOC.NPAC.VAL.GET.SCOP.FILT.subscriptionVers	R		
25	1111	MOC.NPAC.CAP.OP.DEL subscriptionVersion	R	 	
35	14.4.4	1	R		
36	14.4.9	MOC.NPAC.VAL.DEL.SCOP.FILT.subscriptionVers ion			
37	13.7.7	MOC.LSMS.INV.QUERY.SCOPED.subscriptionVer sion	С		
38	16.18.1	A2A.LSMS.VAL.CREATE.BYNPAC.subscriptionVersion.POOL	С		
39	16.18.2	A2A.LSMS.VAL.CREATE.RANGE.BYNPAC.subsc riptionVersion.POOL	С		

Tes	t Case I	Name	Sev	Date	Result
40	16.3.3	A2A.OSOA.VAL.CREATE.TN-	С		
		RANGE.SubscriptionVersion			
41	16.4.11	A2A.NSOA.VAL.ACTIVATE.TN-	С		
		RANGE.SubscriptionVersion			
42	16.5.12	A2A.SOA.VAL.MODIFY.PEND.TN-	С		
		RANGE.SubscriptionVersion			
43	16.6.3	A2A.NSOA.VAL.CANCEL.TN-	С		
	1666	RANGE.SubscriptionVersion			
44	16.6.6	A2A.OSOA.VAL.CANCEL.TN-	С		
15	16.8.5	RANGE.SubscriptionVersion A2A.NSOA.VAL.CONFLICT.RESOLVE.TN-	C		
45	16.8.5	RANGE.BYNSOA.SubscriptionVersion			
		Number Pool Block			
1	11.4.25	MOC.SOA.CAP.ACT.numberPoolBlockCreateActio	С	1	
1	11.7.23	n			
2	11.12.1	MOC.SOA.CAP.OP.GET.numberPoolBlockNPAC	О		
3	11.12.2	MOC.SOA.CAP.OP.SET.numberPoolBlockNPAC	С		
4	13.11.1	MOC.LSMS.CAP.OP.GET.numberPoolBlockNPAC	О		
5	14.8.1	MOC.NPAC.CAP.OP.CRE.numberPoolBlock	С		
6	14.8.2	MOC.NPAC.CAP.OP.SET.numberPoolBlock	С		
7	14.8.3	MOC.NPAC.CAP.OP.GET.numberPoolBlock	С		
8	14.8.4	MOC.NPAC.CAP.OP.GET.MULTIPLE.numberPool Block	С		
9	14.8.5	MOC.NPAC.CAP.OP.DEL.numberPoolBlock	С		
10	14.8.6	MOC.NPAC.CAP.OP.SET.SING.numberPoolBlock	С		
11	14.8.7	MOC.NPAC.CAP.OP.SET.MULT.numberPoolBlock	С		
		Audit			
1	11.7.1	MOC.SOA.CAP.OP.CRE.subscriptionAudit	С		
2	16.1.5	A2A.SOA.VAL.NODIS.TNRNG.subscripitonAudit	О		
3	16.1.8	A2A.SOA.VAL.WITHDIS.TNRNG.subscripitonAud	С		
		it			
		Recovery			
1	16.15.1	A2A.SOA.VAL.MISC.ACTION.resync	С		
2	16.15.4	A2A.LSMS.VAL.MISC.ACTION.resync	С		

^{*} This test case must be executed twice if the SOA will be supporting both the "individual" and "range/list" versions of notifications.

Appendix E Release 3.1 Test Case Checklist

Tes	t Case I	Number and Name	Sev	Date	Result					
		MOC InpNPAC-SMS – SOA to NPA	AC SMS							
1	11.1.7*	MOC.SOA.CAP.ACT.InpNotificationRecovery	С							
	MOC InpSubscriptions – SOA to NPAC SMS									
1	11.4.27	MOC.SOA.CAP.NOT.RANGE.subscriptionVersionRange	С							
		StatusAttributeValueChange								
2	11.4.28	MOC.SOA.CAP.NOT.RANGE.subscriptionVersionRange AttributeValueChange	С							
3	11.4.29	MOC.SOA.CAP.NOT.RANGE.subscriptionVersionRange ObjectCreation	С							
4	11.4.30	MOC.SOA.CAP.NOT.RANGE.subscriptionVersionRange DonorSP-CustomerDisconnectDate	С							
5	11.4.31	MOC.SOA.CAP.NOT.RANGE.subscriptionVersionRange CancellationAcknowledgeRequest	С							
6	11.4.32	MOC.SOA.CAP.NOT.RANGE.subscriptionVersionRange NewSP-CreateRequest	С							
7	11.4.33	MOC.SOA.CAP.NOT.RANGE.subscriptionVersionRange OldSP-ConcurrenceRequest	С							
8	11.4.34	MOC.SOA.CAP.NOT.RANGE.subscriptionVersionRange OldSPFinalConcurrenceWindowExpiration	С							
9	11.4.35	MOC.SOA.CAP.NOT.RANGE.subscriptionVersionRange NewSP-FinalCreateWindowExpiration	С							
10	11.4.36	MOC.SOA.CAP.NOT.LIST.subscriptionVersionRangeStat usAttributeValueChange	С							
<u>11</u>	11.4.37	MOC.SOA.CAP.NOT.LIST.subscriptionVersionRangeAttri buteValueChange	<u>C</u>							
11	11.4. 37 3	MOC.SOA.CAP.NOT.LIST.subscriptionVersionRangeObj	С							
<u>12</u>	<u>8</u>	ectCreation								
12	11.4. 38 <u>3</u>	MOC.SOA.CAP.NOT.LIST.subscriptionVersionRangeDon	С							
<u>13</u>	9	orSP-CustomerDisconnectDate								
13 14	11.4. 39 <u>4</u> <u>0</u>	MOC.SOA.CAP.NOT.LIST.subscriptionVersionRangeCan cellationAcknowledgeRequest	С							
14 15	11.4. 40 <u>4</u> <u>1</u>	MOC.SOA.CAP.NOT.LIST.subscriptionVersionRangeNew SP-CreateRequest	С							
15 16	11.4. 41 4 2	MOC.SOA.CAP.NOT.LIST.subscriptionVersionRangeOld SP-ConcurrenceRequest	С							
16 17	11.4. <u>424</u> <u>3</u>	MOC.SOA.CAP.NOT.LIST.subscriptionVersionRangeOld SPFinalConcurrenceWindowExpiration	С							
17	11.4.43	MOC.SOA.CAP.NOT.LIST.subscriptionVersionRangeNew SP-FinalCreateWindowExpiration	E							
18	11.4.44	MOC.SOA.CAP.NOT.LIST.subscriptionVersionRangeNew SP-FinalCreateWindowExpiration	С							
19	11.4.45	MOC.SOA.INV.NOT.RANGE.subscriptionVersionRangeS tatusAttributeValueChange	О							
20	11.4.46	MOC.SOA.INV.NOT.RANGE.subscriptionVersionRange AttributeValueChange	0							
21	11.4.47	MOC.SOA.INV.NOT.RANGE.subscriptionVersionRange ObjectCreation	О							
22	11.4.48	MOC.SOA.INV.NOT.RANGE.subscriptionVersionRange DonorSP-CustomerDisconnectDate	О							
23	11.4.49	MOC.SOA.INV.NOT.RANGE.subscriptionVersionRangeC ancellationAcknowledgeRequest	О							
24	11.4.50	MOC.SOA.INV.NOT.RANGE.subscriptionVersionRange	О							

Test Case Number and Name			Sev	Date	Result
		NewSP-CreateRequest			
25	11.4.51	MOC.SOA.INV.NOT.RANGE.subscriptionVersionRange OldSP-ConcurrenceRequest	О		
26	11.4.52	MOC.SOA.INV.NOT.RANGE.subscriptionVersionRange OldSPFinalConcurrenceWindowExpiration	О		
27	11.4.53	MOC.SOA.INV.NOT.RANGE.subscriptionVersionRange NewSP-FinalCreateWindowExpiration	О		
MOC subscriptionVersion – SOA to NPAC SMS					
1	11.8.25	MOC.SOA.CAP.NOT.subscriptionVersionNewSP-FinalCreateWindowExpiration	С		
2	11.8.26	MOC.SOA.INV.NOT.subscriptionVersionNewSP-FinalCreateWindowExpiration	О		
App-to-App Miscellaneous Scenario					
1	16.15.6	A2A.SOA.VAL.MISC.ACTION.resync_3_1	С		

^{*} This test case must be executed twice if the SOA will be supporting both the "individual" and "range/list" versions of notifications.