NPAC SMS Release 3.4
Turn Up Test Plan

Release 3.4a

November 12, 2010

Publication History

Version	Release Date	Description
3.4a	**November 12, 2010**	**Initial draft of NPAC Release 3.4 Test Cases**

Table of Contents

1. Preface

1.1 Purpose of this Document

The purpose of this document is to identify the NPAC Release 3.4 Test Cases. These Test Cases are based on NPAC SMS Release 3.4 requirements.

Actual Entrance and Exit criteria for test execution/completion are an agreement between individual Service Providers and the NPAC SMS vendor based upon the functionality supported by the local Service Provider SOA and/or LSMS systems.

This Test Plan contains Test Cases per functional component of the Software Release. The Test Cases cover basic Success and Error scenarios. Test Case Priority is indicated by the systems that participate in each respective Test Case. It is assumed that the NPAC SMS/NPAC personnel participate in every Test Case of the Turn Up Test Plan. If the Test Case Priority for a system is marked as ***Required*** that system shall participate as the Test Case describes. A Test Case Priority of ***Conditional*** for a system means that the system shall participate in the Test Case as described, if the respective functionality has been implemented for that system. When the Test Case Priority is marked as ***Optional*** for a system, it is at the discretion of the Service Provider if they use the respective system to participate in the Test Case as described. Finally, the Test Case Priority may be marked as ***N/A*** for a Service Provider system, which means that the functionality tested in this Test Case does not apply to this respective Service Provider system.

The different NPAC regions will turn-up Release 3.4 software at different times. As a result Service Providers that operate in multiple regions will need to handle Release 3.3.4 and Release 3.4 interfaces (and respective data) simultaneously. This test plan does not include any guidelines or test cases for the purpose of testing backward compatibility between NPAC SMS releases.

1.2 Assumptions

All Test Cases should be executed where the Service Provider profile attributes are set such that they emulate the Service Provider's production environment unless otherwise stated in an individual test case.

Please refer to the NPAC/SMS User Profile – U.S. Mechanized User Readiness Form for the complete list of SOA and LSMS Service Provider Configurables.

1.3 Audience

The intended audience for this document is NPAC SMS, SOA and LSMS system testers and anyone who is involved with NPAC SMS, SOA and LSMS Turn Up Certification testing. It is assumed that individuals using this test plan have an understanding of Local Number Portability, Number Pooling and related specification documents. The Test Cases are written from the Interface Interoperable Specification (IIS) perspective so users should have an understanding of this document specifically.

1.4 Conventions Used in this Document

1.1.1. Test Case Template

Test Cases are the bulk of the information presented in this document. Test Cases are comprised of the following information:

A. TEST IDENTITY

Test Case Number:	*Unique Test Case Identifier*	**SUT Priority:**	**SOA**	***Required*** *–This Service Provider systems shall participate.* ***Conditional*** *– If the Service Provider system has implemented the functionality represented in this Test Case, then the system shall participate.* ***Optional*** *– Service Provider may include this system as indicated by the Test Case.* ***N/A*** *– This Test Case does not apply to this system.*
			LSMS	*Required, Conditional, Optional or N/A.*
Objective:	*Test Case Objective. The Title specifies relevant systems to the test (NPAC SMS, SOA or LSMS) and the type of Test Case (success or error).*			

B. REFERENCES

NANC Change Order Revision Number:	*If a change order revision is relevant – it's indicated here.*	**Change Order Number(s):**	*If a Change Order(s) is relevant – it is indicated here.*
NANC FRS Version Number:	*FRS version is indicated here.*	**Relevant Requirement(s):**	*Requirement(s) related to this Test Case are indicated here.*

NANC IIS Version Number:	*IIS version is indicated here.*	**Relevant Flow(s):**	*IIS Flow(s) related to this Test Case are indicated here.*

C. PREREQUISITE

Prerequisite Test Cases:	*Test Case, if any, to be successfully executed prior to this Test Case*
Prerequisite NPAC Setup:	*Steps to be executed by NPAC personnel prior to Test Case execution*
Prerequisite SP Setup:	*Steps to be executed by Service Provider personnel prior to Test Case execution*

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	*[system indicated here]*	*This test step is described here.*	*[system indicated here]*	*The expected results associated with this respective test step are indicated here.*

E. Pass/Fail Analysis, TC #

Pass	*Fail*	*NPAC personnel performed the test case as written.*
Pass	*Fail*	*Service Provider personnel performed the test case as written.*

1.1.2. Test Case Numbering

Test Case Numbers are alphanumeric numbers that identify the sections of functional component based on the respective Change Order to ensure a unique Test Case number. Below is a table identifying the Change Orders that are included in this release and their associated alphanumeric numbering prefix. These test case numbers are assumed to be static:

Numeric Prefix	**Respective Functional Component**
NANC 147	Version ID Rollover Strategy
NANC 355	Modification of NPA-NXX Effective Date
NANC 396	NPAC Filter Management – NPA-NXX Filters
NANC 408	SPID Migration Automation
NANC 414	Validation of Code Ownership in the NPAC

1.1.3. Test Case Priority

Each Test Case will have an associated Test Case Priority.

Required: This Test Case represents required functionality and shall be executed by the respective Service Provider system and/or NPAC SMS Vendor.

Conditional: This Test Case represents optional functionality. If a Service Provider has implemented the suggested functionality for this respective Service Provider system in

the Test Case, they shall execute the Test Case as written. If there are not any Service Providers that have implemented the functionality, and therefore cannot verify the NPAC SMS behavior, the NPAC personnel shall execute the Test Case with the use of simulators.

Optional: Service Provider may execute the Test Case as written if they have implemented the suggested functionality for this respective system. Typically 'optional' Test Cases verify 'additional' attributes of a requirement.

N/A: This Test Case does not apply to this Service Provider system. Thus the Service Provider does not need to test this respective system during this Test Case.

1.1.4. Test Case Prerequisites

Each Test Case contains a section for Prerequisites including Prerequisite Test Cases and/or Prerequisite NPAC Setup and/or Prerequisite SP Setup. When Prerequisite Test Cases are identified this is simply referencing a Test Case that, when appropriately executed, will setup the proper scenario for executing that respective Test Case. Prerequisite Test Cases are not a good source for Test Case ordering to ensure efficient execution. Ordering of Test Cases for efficient execution should be reviewed on a Service Provider by Service Provider basis, based on their specific suite of Test Cases for exiting Turn Up Test.

1.1.5. Test Case Steps and Expected Results

Test Case steps and Expected results have fields to indicate the respective systems, test steps and their expected results.

1.1.6. Pass/Fail Analysis

Each Test Case contains a general analysis of either Pass or Fail.

1.5 Related Documents

North American Number Council (NANC) Functional Requirements Specification Number Portability Administration Center (NPAC) Service Management System (SMS), Release 3.4.0c

NPAC SMS Interoperable Specifications NANC Version 3.4b

1.6 Document Structure

This document is organized into sections as defined below:

Preface (1)	This section describes the purpose and structure of this document

RSMS 3.4 Turn Up Test Cases (Sections 2-6)	Test Cases – one section for each change order
Appendix A	Test Case Matrix including a List of Objectives and Results Table
Appendix B	Issues [indicate open/date and closed/date]

1.7 Requirements for Turn-Up Testing

Turn-Up Testing, which includes new NPAC SMS software release functionality testing and regression testing, must be performed on a Service Provider's SOA/LSMS software anytime that a change is made to the interface (GDMO or ASN.1) of the NPAC SMS. In the event that the interface change is initiated by the NPAC SMS, the Users shall perform Turn-Up Testing on each version of SOA/LSMS software that may potentially be used with the new NPAC SMS interface.

If any of the following scenarios apply, Turn-Up Testing is required by Users. The following outlines the required level of testing for specific scenarios (as defined in the current version of SOW 24, Continuing Certification Testing. If updates are made to SOW 24, those updates take precedence over the scenarios defined below):

(a) When the operating system software of a local product (i.e., a SOA or LSMS that connects to the NPAC SMS) is upgraded, and this results in any OSI stack or CMIP toolkit change, then ITP testing is required **[standard regression test cases]**.

(b) When the operating system of a local product (i.e., a SOA or LSMS that connects to the NPAC SMS) is changed (e.g. OS vendor A to OS vendor B), then ITP testing is required **[standard regression test cases]**.

(c) 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 Turn-Up Testing is optional. Test cases to be performed are at the discretion of the Service Provider. [standard regression test cases].

(d) When a local product is compiled with the current interface model, and no new local features are implemented that involve the interface, and the NPAC SMS is compiled with the new interface model, then Turn-Up Testing is required **[standard regression test cases]**.

(e) When a local product is compiled with the new interface model, and no new local features are implemented that involve the interface, and the NPAC SMS is compiled with the new interface model, then Turn-Up Testing is required **[standard regression test cases]**.

(f) 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 Turn-Up Testing is required **[standard regression test cases and new functionality test cases]**.

(g) 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 Turn-Up Testing is required **[standard regression test cases and new functionality test cases]**.

1.8 Turn-Up Testing Execution Considerations

No special test execution consideration related to R3.4.

RSMS 3.4 Turn Up Test Cases

2. NANC 147 – Version ID Rollover Strategy

A. TEST IDENTITY

Test Case Number:	**NANC 147-1**	**SUT Priority:**	**SOA**	Required
			LSMS	Required
Objective:	NANC 147-1 SOA/LSMS – Service Providers under test submit a variety of requests (see test steps) to the NPAC for data that contains Record ID values assigned by the NPAC SMS and that result in a rollover of the inventory ID for those records. Service Provider systems accept the replies with the rollover ID values. Requests will include audits, subscription version create, LRN, NPA-NXX, NPA-NXX-X, and Number Pool Block create requests.			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 147
NANC FRS Version Number:		**Relevant Requirement(s):**	RR3-649, RR3-650, RR3-651, RR3-652, RR3-653, RR3-654
NANC IIS Version Number:		**Relevant Flow(s):**	B.2.1 SOA Initiated Audit B.5.1.2 SubscriptionVersion Create by the Initial SOA (New Service Provider) B.4.2.1 LRN Creation by the NPAC B.4.1.1 NPA-NXX Creation by the NPAC B.4.3.1 Service Provider NPA-NXX-X Create by NPAC SMS B.4.4.2 Number Pool Block Create by NPAC SMS

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	
Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP - Conditional	Service Provider Personnel take action to issue an audit request to the NPAC SMS. Issue the request three different times so that the NPAC can issue three unique Audit ID inventory sequence replies. Using the SOA Service Provider Personnel issue an M-CREATE	NPAC	In each of the three audit requests the NPAC SMS issues an M-CREATE Response subscriptionAudit to the requesting Service Provider SOA. 1. One where the Audit ID is less than the rollover maximum. 2. One where the Audit ID has been rolled over. 3. One where the Audit ID is 'out of sequence' from other requests. **NOTE:** For the purposes of this test case we aren't concerned about audit discrepancies that may be found.

		Request subscriptionAudit .		
2.	NPAC	NPAC Personnel take action to issue a subscription version create to the SUT, where they are they New Service Provider in the SV: 1. Issue one SV create where the Record ID is less than the rollover maximum. 2. Issue one SV create where the Record ID has been rolled over. 3. Issue one SV create where the Record ID is 'out of sequence' from other requests.	SP	Service Provider SOA receives the M-EVENT-REPORT objectCreation and issues an M-EVENT-REPORT Confirmation back to the NPAC SMS: 1. One for an SV create where the Record ID is less than the rollover maximum. 2. One SV create where the Record ID has been rolled over. 3. One SV create where the Record ID is 'out of sequence' from other requests.
3.	NPAC	NPAC Personnel take action to issue an LRN create on behalf of the SUT, to the SUT: 1. Issue one LRN create where the Record ID is less than the rollover maximum. 2. Issue one LRN create where the Record ID has been rolled over. 3. Issue one LRN create where the Record ID is 'out of sequence' from other requests.	SP	Service Provider SOA receives the M-Create Request serviceProvLRN and issues an M-Create Response back to the NPAC SMS: 1. One for an LRN create where the Record ID is less than the rollover maximum. 2. One LRN create where the Record ID has been rolled over. 3. One LRN create where the Record ID is 'out of sequence' from other requests.
4.	NPAC	NPAC Personnel take action to issue an NPA-NXX create on behalf of the SUT, to the SUT: 1. Issue one NPA-NXX create where the Record ID is less than the rollover maximum. 2. Issue one NPA-NXX create where the Record ID has been rolled over. 3. Issue one NPA-NXX create where the Record ID is 'out of sequence' from other requests.	SP	Service Provider SOA receives the M-Create Request serviceProvNPA-NXX and issues an M-Create Response back to the NPAC SMS: 1. One for an NPA-NXX create where the Record ID is less than the rollover maximum. 2. One NPA-NXX create where the Record ID has been rolled over. 3. One NPA-NXX create where the Record ID is 'out of sequence' from other requests.
5. Conditional	NPAC	NPAC Personnel take action to issue an NPA-NXX-X create on behalf of the SUT, to the SUT: 1. Issue one NPA-NXX-X create where the Record ID is less than the rollover maximum. 2. Issue one NPA-NXX-X create where the Record ID has been rolled over. 3. Issue one NPA-NXX-X create where the Record ID is 'out of sequence' from other requests.	SP	Service Provider SOA receives the M-Create Request serviceProvNPA-NXX-X and issues an M-Create Response back to the NPAC SMS: 1. One for an NPA-NXX-X create where the Record ID is less than the rollover maximum. 2. One NPA-NXX-X create where the Record ID has been rolled over. 3. One NPA-NXX-X create where the Record ID is 'out of sequence' from other requests.
6. Conditional	NPAC	NPAC Personnel take action to issue a NPB create on behalf of the SUT, to the SUT: 1. Issue one NPB create where the Record ID is less than the rollover maximum. 2. Issue one NPB create where the Record ID has been rolled over.	SP	Service Provider SOA receives the M-ACTION Response numberPoolBlock-Create and issues an M-Create Response back to the NPAC SMS: 1. One for an NPA-NXX-X create where the Record ID is less than the rollover maximum. 2. One NPA-NXX-X create where the Record ID has been rolled over. 3. One NPA-NXX-X create where the Record ID is 'out of

		3. Issue one NPB create where the Record ID is 'out of sequence' from other requests.		sequence' from other requests.
7.	SP	Service Provider Personnel perform a local query for the items created in this test case: 1.1. Audit request where NPAC SMS returned an Audit ID less than the rollover maximum. 1.2. Audit request where NPAC SMS returned an Audit ID that has been rolled over. 1.3. Audit request where NPAC SMS returned an Audit ID out of sequence from other requests. 2-1. SV create request where NPAC SMS returned an SV ID less than the rollover maximum. 2.2. SV create where NPAC SMS returned an SV ID that has been rolled over. 2.3. SV create where NPAC SMS returned an SV ID out of sequence from other requests. 3.1. LRN create request where the LRN ID is less than the rollover maximum. 3.2. LRN create request where the LRN ID has been rolled over. 3.3. LRN create request where the LRN ID is out of sequence from other requests. 4-1. NPA-NXX create request where the NPA-NXX ID is less than the rollover maximum. 4.2. NPA-NXX create request where the NPA-NXX ID has been rolled over. 4.3. NPA-NXX create request where the NPA-NXX ID is out of sequence from other requests. 5-1. NPA-NXX-X create request where the NPA-NXX-X ID is less than the rollover maximum. 5-2. NPA-NXX-X create request where the NPA-NXX-X ID has been rolled over. 5-3. NPA-NXX-X create request where the NPA-NXX-X ID is out of sequence from other requests. 6-1. NPB create request where the NPB ID is less than the rollover maximum.	SP	Verify that your application has handled each of the NPAC SMS responses for these ID inventory scenarios.

		6-2. NPB create request where the NPB ID has been rolled over. 6-3. NPB create request where the NPB ID is out of sequence from other requests.		

E. Pass/Fail Analysis, NANC 147-1

Pass	Fail	NPAC personnel performed the test case as written.
Pass	Fail	Service Provider personnel performed the test case as written.

3. NANC 355 – Modification of NPA-NXX Effective Date

NANC 355-1 and 355-2 are required for Service Providers whose respective applications support NPA-NXX Modify. Service Provider's that don't support NPA-NXX Modify can optionally perform the test cases if they desire.

A. TEST IDENTITY

Test Case Number:	**NANC 355-1**	**SUT Priority:**	**SOA**	Conditional
			LSMS	N/A
Objective:	NANC 355-1 SOA – Service Provider SOA application accepts an NPA-NXX modify request initiated by NPAC Personnel on the NPAC SMS where the NPA-NXX Effective Date is modified and the current date is less than the existing NPA-NXX Effective Date – Success NOTE: No Pending-like Subscription Versions or Scheduled NPA-NXX-Xs/NPBs exist within the respective NPA-NXX			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 355
NANC FRS Version Number:		**Relevant Requirement(s):**	RR3-658, RR3-659, RR3-661, RR3-662, RR3-663, RR3-665, RR3-668, RR3-671, RR3-672, R3-655,
NANC IIS Version Number:		**Relevant Flow(s):**	B.4.1.2 NPA-NXX Modification by NPAC

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. The NPA-NXX that is going to be modified in this test case exists on the NPAC SMS, is not involved in an NPA-Split, and does not have any associated subscription versions. 2. Verify the Regional NPA-NXX Modification Flag Indicator is set to TRUE. 3. Verify the Service Provider SOA NPA-NXX Modification Flag Indicator is set to TRUE.
Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	NPAC	NPAC personnel take action to modify an NPA-NXX Effective Date for a specified service provider: NPAC SMS issues an M-SET request to itself to modify the local serviceProvNPA-NXX object.	NPAC	NPAC SMS receives the M-SET request and issues an M-SET response indicating the serviceProvNPA-NXX object was modified successfully.
2.	NPAC	For SP SOAs that are accepting downloads for the NPA-NXX for which the Effective Date was modified:	SP	All SOAs in the region accepting downloads for the NPA-NXX for which the Effective Date was modified AND that support NPA-NXX Modify, receive the M-SET request serviceProvNPA-NXX.

		The NPAC SMS sends an M-SET request to all SOAs that support NPA-NXX Modify as indicated in their Service Provider profile, for the NPA-NXX specifying the modified NPA-NXX Effective Date. **NOTE:** SOAs that don't support NPA-NXX Modify as indicated in their Service Provider profile, would receive an M-DELETE for the serviceProvNPA-NXX object and when the SOA responds to the M-DELETE and then an M-CREATE for the serviceProvNPA-NXX object with the modified NPA-NXX Effective Date. **This test case does not need to be executed by SPs who's SOA does not support NPA-NXX Modify.**		SOAs that received the M-SET request issue an M-SET response indicating the serviceProvNPA-NXX object was modified successfully.

E. Pass/Fail Analysis, NANC 355-1

Pass	Fail	NPAC personnel performed the test case as written.
Pass	Fail	Service Provider personnel performed the test case as written and verify the Effective Date for the NPA-NXX in their local system reflects the modified date assigned by NeuStar personnel.

A. TEST IDENTITY

Test Case Number:	**NANC 355-2**	**SUT Priority:**	**SOA**	N/A
			LSMS	Conditional
Objective:	Service Provider LSMS application accepts an NPA-NXX modify request initiated by NPAC Personnel using the NPAC SMS where the NPA-NXX Effective Date is modified – Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 355
NANC FRS Version Number:		**Relevant Requirement(s):**	RR3-658, RR3-659, RR3-661, RR3-662, RR3-663, RR3-665, RR3-668, RR3-673, RR3-674, R3-655
NANC IIS Version Number:		**Relevant Flow(s):**	B.4.1.2 NPA-NXX Modification by NPAC

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. The NPA-NXX that is going to be modified in this test case exists on the NPAC SMS, is not involved in an NPA-Split, and does not have any associated subscription versions. 2. Verify the Regional NPA-NXX Modification Flag Indicator is set to TRUE. 3. Verify the Service Provider LSMS NPA-NXX Modification Flag Indicator is set to TRUE.
Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	NPAC	NPAC personnel take action to modify an NPA-NXX Effective Date for a specified service provider: NPAC SMS issues an M-SET request to itself to modify the local serviceProvNPA-NXX object.	NPAC	NPAC SMS receives the M-SET request and issues an M-SET response indicating the serviceProvNPA-NXX object was modified successfully.
2.	NPAC	For SP LSMSs that are accepting downloads for the NPA-NXX for which the Effective Date was modified: The NPAC SMS sends an M-SET request to all LSMSs that support NPA-NXX Modify as indicated in their Service Provider profile, for the NPA-NXX specifying the modified NPA-NXX Effective Date. **NOTE:** LSMSs that don't support NPA-NXX Modify as indicated in their Service Provider profile, would receive an M-DELETE for the	SP	All LSMSs in the region accepting downloads for the NPA-NXX for which the Effective Date was modified AND that support NPA-NXX Modify, receive the M-SET request serviceProvNPA-NXX. LSMSs that received the M-SET request issue an M-SET response indicating the serviceProvNPA-NXX object was modified successfully.

		serviceProvNPA-NXX object and when the SOA responds to the M-DELETE and then an M-CREATE for the serviceProvNPA-NXX object with the modified NPA-NXX Effective Date. **This test case does not need to be executed by SPs who's SOA does not support NPA-NXX Modify.**		

E. Pass/Fail Analysis, NANC 355-2

Pass	Fail	NPAC personnel performed the test case as written.
Pass	Fail	Service Provider personnel performed the test case as written and verify the Effective Date for the NPA-NXX in their local system reflects the modified date assigned by NeuStar personnel.

Service Providers can optionally execute NANC 355-3.

A. TEST IDENTITY

Test Case Number:	**NANC 355-3**	**SUT Priority:**	**SOA**	Optional
			LSMS	N/A
Objective:	NANC 355-3 SOA – Service Provider Personnel attempt to submit an NPA-NXX modify request to the NPAC SMS – Error			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 355
NANC FRS Version Number:		**Relevant Requirement(s):**	RR3-660
NANC IIS Version Number:		**Relevant Flow(s):**	B.4.1.2 NPA-NXX Modification by NPAC

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. The NPA-NXX that is going to be modified in this test case exists on the NPAC SMS, is not involved in an NPA-Split, and does not have any associated subscription versions. 2. Verify the Regional NPA-NXX Modification Flag Indicator is set to TRUE. 3. Verify the Service Provider LSMS NPA-NXX Modification Flag Indicator is set to their production value.
Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	SP personnel attempt to modify an NPA-NXX Effective Date for an NPA-NXX for whom they are the current SPID. SOA issues an M-SET request to the NPAC SMS for the serviceProvNPA-NXX object specifying a new Effective Date for the NPA-NXX.	NPAC	NPAC SMS receives an M-SET request for an NPA-NXX to modify the Effective Date. This violates system requirements and the NPAC SMS fails the request. NPAC SMS issues an M-SET response indicating access_denied. The respective NPA-NXX is not updated.

E. Pass/Fail Analysis, NANC 355-3

Pass	Fail	NPAC personnel performed the test case as written.
Pass	Fail	Service Provider personnel performed the test case as written and successfully handled the failure from the NPAC SMS.

Service Providers can optionally execute NANC 355-4.

A. TEST IDENTITY

Test Case Number:	**NANC 355-4**	**SUT Priority:**	**SOA**	N/A
			LSMS	Optional
Objective:	NANC 355-4 LSMS – Service Provider Personnel using their LSMS system attempt to submit an NPA-NXX modify request to the NPAC SMS – Error			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 355
NANC FRS Version Number:		**Relevant Requirement(s):**	RR3-660
NANC IIS Version Number:		**Relevant Flow(s):**	B.4.1.2 NPA-NXX Modification by NPAC

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. The NPA-NXX that is going to be modified in this test case exists on the NPAC SMS, is not involved in an NPA-Split, and does not have any associated subscription versions. 2. Verify the Regional NPA-NXX Modification Flag Indicator is set to TRUE. 3. Verify the Service Provider LSMS NPA-NXX Modification Flag Indicator is set to their production value.
Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	SP personnel attempt to modify an NPA-NXX Effective Date for an NPA-NXX for whom they are the current SPID. LSMS issues an M-SET request to the NPAC SMS for the serviceProvNPA-NXX object specifying a new Effective Date for the NPA-NXX.	NPAC	NPAC SMS receives an M-SET request for an NPA-NXX to modify the Effective Date. This violates system requirements and the NPAC SMS fails the request. NPAC SMS issues an M-SET response indicating access_denied. The respective NPA-NXX is not updated.

E. Pass/Fail Analysis, NANC 355-4

Pass	Fail	NPAC personnel performed the test case as written.
Pass	Fail	Service Provider personnel performed the test case as written and successfully handled the failure from the NPAC SMS.

4. NANC 396 – NPAC Filter Management – NPA-NXX Filters

Service Providers should participate in these group tests with whatever application they have SOA and/or LSMS. If they cannot create an NPA-NXX from an application, they can participate as a client of the download (the real objective of the test case).

A. TEST IDENTITY

Test Case Number:	**NANC 396-1**	**SUT Priority:**	**SOA**	Required
			LSMS	Required
Objective:	NANC 396-1 SOA/LSMS – Service Provider Personnel (using their SOA) create an NPA-NXX for which NeuStar NPAC Personnel have already established an NPA-NXX filter. LSMSs do not receive the NPA-NXX create download - Success In this test case, Neustar NPAC Personnel can create the NPA-NXX filter for some/not all Service Providers participating in the Group test. Then, one Service Provider participating in the test (and for whom a respective NPA-NXX filter was established) will create the NPA-NXX. The NPAC SMS will process the request, creating the NPA-NXX on the NPAC SMS and only broadcasting to those Service Providers for whom a filter does not exist.			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 396
NANC FRS Version Number:		**Relevant Requirement(s):**	RR3-696
NANC IIS Version Number:		**Relevant Flow(s):**	B.4.1.1 NPA-NXX Creation by the NPAC or B.4.1.4 NPA-NXX Creation by the Local SMS or B.4.1.5 NPA-NXX Creation by the SOA

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify the NPA-NXX that is going to be created as part of this test case does not already exist on the NPAC SMS. 2. Verify that an NPA-NXX filter exists for the NPA-NXX to be created as part of this test case for some but not all Service Providers participating in the test case.
Prerequisite SP Setup:	Verify the NPA-NXX that is going to be created as part of this test case does not exist on the local system (SOA and/or LSMS) prior to the start of this test case.

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	NPAC, or SP	Service Provider personnel using either their SOA or LSMS, OR NPAC Personnel on their behalf take action to create an NPA-NXX where an NPA-NXX filter exists for some but not all Service Provider participating in the test case.	NPAC	NPAC receives the M-CREATE Request serviceProvNPA-NXX and issues an M-CREATE Response back to the initiating system (SOA, LSMS or NPAC SMS).

		An M-CREATE Request serviceProvNPA-NXX issued to the NPAC SMS.		
2.	NPAC	NPAC SMS issues an M-CREATE Request serviceProvNPA-NXX to all LSMSs in the region accepting downloads for this NPA-NXX.	NPAC	All LSMSs in the region accepting downloads for this NPA-NXX receive the M-CREATE and issue an M-CREATE Response serviceProvNPA-NXX back to the NPAC SMS.
3.	NPAC	NPAC SMS issues an M-CREATE Request serviceProvNPA-NXX to all SOAs in the region accepting downloads for this NPA-NXX.	NPAC	All SOAs in the region accepting downloads for this NPA-NXX receive the M-CREATE and issue an M-CREATE Response serviceProvNPA-NXX back to the NPAC SMS.
4.	SP	Service Providers accepting downloads for the NPA-NXX created in this test case query their local system for the NPA-NXX created in this test case.	SP	Service Providers accepting downloads for this NPA-NXX created in this test case verify the NPA-NXX exists on their local application.
5.	SP	Service Providers for which an NPA-NXX filter exists for the NPA-NXX created in this test case query their local system for the NPA-NXX created in this test case.	SP	Service Providers for which an NPA-NXX filter exists for the NPA-NXX created in this test case verify the NPA-NXX *does not* exist on their local application. Only exception might be if the Service Provider who initiated the NPA-NXX create request had a filter established for the respective NPA-NXX, since they issued the create, the NPA-NXX may exist on the local system from which they initiated the create request.

E. Pass/Fail Analysis, NANC 396-1

Pass	Fail	NPAC personnel performed the test case as written.
Pass	Fail	Service Provider personnel performed the test case as written.

Group test case

A. TEST IDENTITY

Test Case Number:	**NANC 396-2**	**SUT Priority:**	**SOA**	N/A
			LSMS	Required
Objective:	NANC 396-2 LSMS – Service Provider Personnel (using their SOA) or NPAC Personnel activate a single SV where an NPA Filter exists for the TN specified in the activation request. LSMS does not receive download. – Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 396
NANC FRS Version Number:		**Relevant Requirement(s):**	RR3-693
NANC IIS Version Number:		**Relevant Flow(s):**	B.5.1.5 SubscriptionVersion Activated by New Service Provider SOA B.5.1.6 Active SubscriptionVersion Create on Local SMS

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. NeuStar Personnel create an NPA filter respective to the TN to be used in this test case – for some but not all Service Providers participating in the test case. 2. Verify that a pending SV exists for the TN to be used in this test case, where the Service Provider who is going to activate the TN is the New Service Provider indicated in the subscription version, the Old Service Provider has concurred to the port and the due date has been reached. 3. Verify that the New SP Customer TN Range Notification Indicator is set to their production value. 4. Verify that the SOA Notification Priority tunable parameters are set to the default values for the New Service Provider.
Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	NPAC	1. Service Provider Personnel submit a request to the NPAC to activate a single Inter-Service Provider subscription version. 2. The SOA issues an M-ACTION subscriptionVersionActivate Request to itself. **NOTE:** If NeuStar Personnel submit the subscription version activate on behalf of a service provider, the M-ACTION Request is issued to the NPAC SMS itself.	NPAC	NPAC SMS receives the M-ACTION Request.
2.	NPAC	NPAC SMS locates the respective	NPAC	NPAC SMS receives the M-SET subscriptionVersionNPAC

		subscription version, and issues an M-SET Request subscriptionVersionNPAC to itself to set the subscription version status to 'sending' and set the subscriptionVersionActivationTimeStamp and subscriptionModifiedTimeStamp to the current date and time for the TN.		from itself and issues an M-SET Response to itself.
3.	NPAC	NPAC SMS issues an M-ACTION Response to the New SP SOA. **NOTE:** If NeuStar Personnel submitted the subscription version activate on behalf of a service provider in step 1 above, an M-ACTION Response is not sent to the New SP SOA; instead the response would be issued to the NPAC SMS itself.	SP	New SP SOA receives the M-ACTION Response from the NPAC SMS. **NOTE:** If NeuStar Personnel submitted the subscription version activate on behalf of a service provider in step 1 above, the NPAC SMS receives the M-ACTION Response from itself.
4.	NPAC	NPAC SMS issues an M-SET Request to itself to set the subscription version status to 'sending' and set the subscriptionBroadcastTimeStamp to the current date and time for the TN.	NPAC	NPAC SMS receives the M-SET Request and issues an M-SET Response to itself.
5.	NPAC	NPAC SMS issues an M-CREATE Requests subscriptionVersion to all LSMSs in the region accepting downloads for this NPA and/or NPA-NXX.	SP Conditional – based on filter	1. All LSMSs in the region accepting downloads for this NPA and/or NPA-NXX receive the M-CREATE Request and verify that the request is valid. 2. All LSMSs in the region that received the M-CREATE request issue an M-CREATE Response subscriptionVersion back to the NPAC SMS. 3. After each LSMS responds to the NPAC SMS, the LSMSs perform the subscription version create on the local system as specified in the request from the NPAC SMS.

6.	NPAC
	
	Conditional – based on filter
		NPAC SMS issues an M-EVENT-REPORT to the Old SP SOA (if they are accepting downloads for the respective NPA and/or NPA-NXX) based on their Customer TN Range Notification Indicator.
		• If the setting is TRUE, the NPAC SMS issues one M-EVENT-REPORT subscriptionVersionRangeStatusAttributeValueChange notification for the TN that contains the following attributes:
		  • start TN
		  • end TN
		  • start SVID
		  • end SVID.
		  • subscriptionVersionStatus = 'active'
			SP
			
			Conditional – based on filter
				If the Old SP SOA is accepting downloads for the respective NPA and/or NPA-NXX, they receive the M-EVENT-REPORT from the NPAC SMS according to their Customer TN Range Notification Indicator.

		• If the setting is FALSE, the NPAC SMS issues an M-EVENT-REPORT subscriptionVersionStatusAttributeValueChange notification for the TN indicating the status is 'active'.		
7.	SP Conditional – based on filter	If the Old SP SOA is accepting downloads for the respective NPA and/or NPA-NXX they issue an M-EVENT-REPORT Confirmation to the NPAC SMS.	NPAC	NPAC SMS receives the M-EVENT-REPORT Confirmation from the Old SP SOA.

8.	NPAC	If the New SP SOA is accepting downloads for the respective NPA and/or NPA-NXX, NPAC SMS issues an M-EVENT-REPORT to the New SP SOA based on their Customer TN Range Notification Indicator.
		• If the setting is TRUE, the NPAC SMS issues one M-EVENT-REPORT subscriptionVersionRangeStatusAttributeValueChange notification to the New SP SOA for the TN that contains the following attributes:
		  • start TN
		  • end TN
		  • start SVID
		  • end SVID.
		  • subscriptionVersionStatus = 'active'
		• If the setting is FALSE, the NPAC SMS issues an M-EVENT-REPORT subscriptionVersionStatusAttributeValueChange notification for the TN that indicates the status is 'active':
			SP Conditional – based on filter	If the New SP SOA is accepting downloads for the respective NPA and/or NPA-NXX they receive the M-EVENT-REPORT from the NPAC SMS.

9.	SP Conditional – based on filter	If the New SP SOA is accepting downloads for the respective NPA and/or NPA-NXX issues an M-EVENT-REPORT Confirmation to the NPAC SMS for the TN.	NPAC	NPAC SMS receives the M-EVENT-REPORT Confirmation for the TN.
10.	NPAC	NPAC Personnel perform a query for the subscription version activated in this test case.	NPAC	The subscription version exists with a status of 'active' with an empty Failed SP List.
11.	SP	Via their SOA &/or LSMS, SP Personnel perform a local query for the subscription version activated during this test case.	SP	1. If the New SP is accepting downloads for the NPA and/or NPA-NXX, via their SOA the subscription version exists with an empty Failed SP List. 2. If the other Service Providers participating in this test are accepting downloads for the NPA and/or NPA-NXX, verify on their LSMS, the subscription version exists with a status of 'active' and SV Type and Optional Data element values

				as they support them. 3. Service Providers that are not accepting downloads for the respective NPA and/or NPA-NXX will not have the respective Subscription Version that was activated in this test case in their system.
12.	SP	New SP Personnel perform an NPAC SMS query for the subscription version activated during this test case.	SP	The subscription version exists with a status of 'active' with an empty Failed SP List on the NPAC SMS.
13.	NPAC	NPAC Personnel perform a full audit of LSMS for the TN that was activated during this test case.	NPAC	Using the Audit Results Log verify that no updates were made as a result of performing the audit. If updates were made, the LSMS fails this test case.

E. Pass/Fail Analysis, NANC 396-2

Pass	Fail	NPAC personnel performed the test case as written.
Pass	Fail	Service Provider personnel performed the test case as written.
Pass	Fail	Service Provider SOA received the error response from the NPAC SMS and handled it appropriately.

Group test case

A. TEST IDENTITY

Test Case Number:	**NANC 396-3**	**SUT Priority:**	**SOA**	N/A
			LSMS	Required
Objective:	NANC 396-3 LSMS – Service Provider Personnel (using their SOA) or NPAC Personnel activate a single SV where an NPA Filter and NPA-NXX filter exists for the TN specified in the activation request. LSMS does not receive download – Success Some but not all SPs (who support the functionality) will establish an NPA-NXX filter (NPAC will create it on behalf of SPs who cannot create filters over the interface).			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 396
NANC FRS Version Number:		**Relevant Requirement(s):**	RR3-695, RR3-693
NANC IIS Version Number:		**Relevant Flow(s):**	B.5.1.5 SubscriptionVersion Activated by New Service Provider SOA B.5.1.6 Active SubscriptionVersion Create on Local SMS

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Prior the Service Providers or NeuStar Personnel on behalf the Service Providers creating an NPA-NXX filter, NeuStar Personnel should create an NPA filter for the TN to be used in this test case – for some but not all Service Providers participating in the test case. 2. Verify that a pending SV exists for the TN to be used in this test case, where the Service Provider who is going to activate the TN is the New Service Provider indicated in the subscription version, the Old Service Provider has concurred to the port and the due date has been reached. 3. Verify that the New SP Customer TN Range Notification Indicator is set to their production value. 4. Verify that the SOA Notification Priority tunable parameters are set to the default values for the New Service Provider.
Prerequisite SP Setup:	Some but not all Service Providers participating in this test case create an NPA-NXX filter for the TN to be used in this test – if Service Provider's do not have the ability to create an NPA-NXX filter over their interface to the NPAC SMS – NeuStar Personnel will do this on behalf of some but not all Service Providers (see step 1 of Prerequisite NPAC Setup).

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	NPAC	1. Service Provider Personnel submit a request to the NPAC to activate a single Inter-Service Provider subscription version. 2. The SOA issues an M-ACTION subscriptionVersionActivate Request to itself.	NPAC	NPAC SMS receives the M-ACTION Request.

		NOTE: If NeuStar Personnel submit the subscription version activate on behalf of a service provider, the M-ACTION Request is issued to the NPAC SMS itself.		
2.	NPAC	NPAC SMS locates the respective subscription version, and issues an M-SET Request subscriptionVersionNPAC to itself to set the subscription version status to 'sending' and set the subscriptionVersionActivationTime Stamp and subscriptionModifiedTimeStamp to the current date and time for the TN.	NPAC	NPAC SMS receives the M-SET subscriptionVersionNPAC from itself and issues an M-SET Response to itself.
3.	NPAC	NPAC SMS issues an M-ACTION Response to the New SP SOA. **NOTE:** If NeuStar Personnel submitted the subscription version activate on behalf of a service provider in step 1 above, an M-ACTION Response is not sent to the New SP SOA; instead the response would be issued to the NPAC SMS itself.	SP	New SP SOA receives the M-ACTION Response from the NPAC SMS. **NOTE:** If NeuStar Personnel submitted the subscription version activate on behalf of a service provider in step 1 above, the NPAC SMS receives the M-ACTION Response from itself.
4.	NPAC	NPAC SMS issues an M-SET Request to itself to set the subscription version status to 'sending' and set the subscriptionBroadcastTimeStamp to the current date and time for the TN.	NPAC	NPAC SMS receives the M-SET Request and issues an M-SET Response to itself.
5.	NPAC	NPAC SMS issues an M-CREATE Requests subscriptionVersion to all LSMSs in the region accepting downloads for this NPA and/or NPA-NXX.	SP Conditional – based on filter	1. All LSMSs in the region accepting downloads for this NPA and/or NPA-NXX receive the M-CREATE Request and verify that the request is valid. 2. All LSMSs in the region that received the M-CREATE request issue an M-CREATE Response subscriptionVersion back to the NPAC SMS. 3. After each LSMS responds to the NPAC SMS, the LSMSs perform the subscription version create on the local system as specified in the request from the NPAC SMS.
6.	NPAC Conditional – based on filter	NPAC SMS issues an M-EVENT-REPORT to the Old SP SOA (if they are accepting downloads for the respective NPA and/or NPA-NXX) based on their Customer TN Range Notification Indicator. • If the setting is TRUE, the NPAC SMS issues one M-EVENT-REPORT subscriptionVersionRangeStatusAttributeValueChange notification for the TN that contains the following attributes: • start TN	SP Conditional – based on filter	If the Old SP SOA is accepting downloads for the respective NPA and/or NPA-NXX, they receive the M-EVENT-REPORT from the NPAC SMS according to their Customer TN Range Notification Indicator.

		• end TN • start SVID • end SVID. • subscriptionVersionStatus = 'active' • If the setting is FALSE, the NPAC SMS issues an M-EVENT-REPORT subscriptionVersionStatusAttributeValueChange notification for the TN indicating the status is 'active'.		
7.	SP Conditional – based on filter	If the Old SP SOA is accepting downloads for the respective NPA and/or NPA-NXX they issue an M-EVENT-REPORT Confirmation to the NPAC SMS.	NPAC	NPAC SMS receives the M-EVENT-REPORT Confirmation from the Old SP SOA.
8.	NPAC	If the New SP SOA is accepting downloads for the respective NPA and/or NPA-NXX, NPAC SMS issues an M-EVENT-REPORT to the New SP SOA based on their Customer TN Range Notification Indicator. • If the setting is TRUE, the NPAC SMS issues one M-EVENT-REPORT subscriptionVersionRangeStatusAttributeValueChange notification to the New SP SOA for the TN that contains the following attributes: • start TN • end TN • start SVID • end SVID. • subscriptionVersionStatus = 'active' • If the setting is FALSE, the NPAC SMS issues an M-EVENT-REPORT subscriptionVersionStatusAttributeValueChange notification for the TN that indicates the status is 'active':	SP Conditional – based on filter	If the New SP SOA is accepting downloads for the respective NPA and/or NPA-NXX they receive the M-EVENT-REPORT from the NPAC SMS.
9.	SP Conditional – based on filter	If the New SP SOA is accepting downloads for the respective NPA and/or NPA-NXX issues an M-EVENT-REPORT Confirmation to the NPAC SMS for the TN.	NPAC	NPAC SMS receives the M-EVENT-REPORT Confirmation for the TN.
10.	NPAC	NPAC Personnel perform a query for the subscription version activated in this test case.	NPAC	The subscription version exists with a status of 'active' with an empty Failed SP List.
11.	SP	Via their SOA &/or LSMS, SP Personnel perform a local query for	SP	1. If the New SP is accepting downloads for the NPA and/or NPA-NXX, via their SOA the subscription version exists

		the subscription version activated during this test case.		with an empty Failed SP List. 2. If the other Service Providers participating in this test are accepting downloads for the NPA and/or NPA-NXX, verify on their LSMS, the subscription version exists with a status of 'active' and SV Type and Optional Data element values as they support them. 3. Service Providers that are not accepting downloads for the respective NPA and/or NPA-NXX will not have the respective Subscription Version that was activated in this test case in their system.
12.	SP	New SP Personnel perform an NPAC SMS query for the subscription version activated during this test case.	SP	The subscription version exists with a status of 'active' with an empty Failed SP List on the NPAC SMS.
13.	NPAC	NPAC Personnel perform a full audit of LSMS for the TN that was activated during this test case.	NPAC	Using the Audit Results Log verify that no updates were made as a result of performing the audit. If updates were made, the LSMS fails this test case.

E. Pass/Fail Analysis, NANC 396-3

Pass	Fail	NPAC personnel performed the test case as written.
Pass	Fail	Service Provider personnel performed the test case as written.

5. NANC 408 – SPID Migration Automation Change

Service Providers that support Online SPID Migration should participate in Group test case, NANC 408-1.

A. TEST IDENTITY

Test Case Number:	**NANC 408-1**	**SUT Priority:**	**SOA**	Conditional
			LSMS	Conditional
Objective:	NANC 408 -1 SOA/LSMS – Service Provider SOA and LSMS applications that support Online SPID Migrations, accept a SPID Migration request from the NPAC SMS to change ownership of an NPA-NXX.			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 408
NANC FRS Version Number:		**Relevant Requirement(s):**	RR3-591, RR3-592
NANC IIS Version Number:		**Relevant Flow(s):**	B.8.1.1 NPAC Initiated SPID Migration Request to Local System

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify that the Regional SPID Migration Online Functionality Indicator is set to TRUE. 2. Verify that the Service Provider SOA Automated SPID Migration Indicator is set to TRUE. 3. Verify that the Service Provider LSMS Automated SPID Migration Indicator is set to TRUE. 4. Verify no Pending-Like Subscription Versions or NPA-NXX-Xs/NPBs exist within the respective NPA-NXX(s) indicated in the SPID Migration.
Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	NPAC	NPAC Personnel take action to perform an Online SPID Migration. The NPAC SMS issues an M-ACTION Request lnpSpidMigration to SOAs and LSMSs in the region whose Automated SPID Migration Indicator (for their respective system) is set to TRUE.	SP	All SOAs and LSMSs in the region whose Automated SPID Migration Indicator is set to TRUE receive the M-ACTION Request lnpSpidMigration from the NPAC SMS and issue an M-ACTION Response lnpSpidMigration back to the NPAC SMS.
2.	SP	SP Personnel perform a local query (using their SOA and/or LSMS) for the NPA-NXX(s) that were updated as a result of the SPID Migration.	SP	Verify the NPA-NXX reflects the code holder as the Migrating To Service Provider in the SPID Migration request.

E. Pass/Fail Analysis, NANC 408-1

Pass	Fail	NPAC personnel performed the test case as written.
Pass	Fail	Service Provider personnel performed the test case as written.

6. NANC 414 – Validation of Code Ownership in the NPAC

A. TEST IDENTITY

Test Case Number:	**NANC 414 - 1**	**SUT Priority:**	**SOA**	Optional
			LSMS	N/A
Objective:	NANC 414 -1 SOA – Service Provider personnel using their SOA application submit a NPA-NXX create request where the SPID and OCN value as configured on the NPAC SMS do not match the request. - Error			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 414
NANC FRS Version Number:		**Relevant Requirement(s):**	R3-687
NANC IIS Version Number:		**Relevant Flow(s):**	B.4.1.5 NPA-NXX Creation by the SOA

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify the Regional NPAC NPA-NXX Ownership Edit Flag Indicator is set to TRUE. 2. Configure a list of valid NPA-NXX for Service Provider under test. 3. Configure a list of valid OCNs for Service Provider under test.
Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	Service Provider personnel using their SOA take action to create an NPA-NXX for an NPA-NXX where the SPID and the OCN value configured on the NPAC SMS do not match. SOA issues an M-CREATE Request serviceProvNPA-NXX to the NPAC SMS.	NPAC	NPAC receives the M-CREATE Request serviceProvNPA-NXX and determines that the SPID and OCN value configured on the NPAC SMS do not match. This violates system requirements and the NPAC SMS fails the request.

E. Pass/Fail Analysis, NANC 414-1

Pass	Fail	NPAC personnel performed the test case as written.
Pass	Fail	Service Provider personnel performed the test case as written and handled the failure from the NPAC SMS.

A. TEST IDENTITY

Test Case Number:	**NANC 414-2**	**SUT Priority:**	**SOA**	N/A
			LSMS	Optional
Objective:	NANC 414-2 LSMS – Service Provider personnel using their LSMS application submit a NPA-NXX create request where the SPID and OCN value as configured on the NPAC SMS do not match the request – Error			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 414
NANC FRS Version Number:		**Relevant Requirement(s):**	R3-687
NANC IIS Version Number:		**Relevant Flow(s):**	B.4.1.4 NPA-NXX Creation by the Local SMS

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify the Regional NPAC NPA-NXX Ownership Edit Flag Indicator is set to TRUE. 2. Configure a list of valid NPA-NXX for Service Provider under test. 3. Configure a list of valid OCNs for Service Provider under test.
Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	Service Provider personnel using their LSMS take action to create an NPA-NXX for an NPA-NXX where the SPID and the OCN value configured on the NPAC SMS do not match. LSMS issues an M-CREATE Request serviceProvNPA-NXX to the NPAC SMS.	NPAC	NPAC receives the M-CREATE Request serviceProvNPA-NXX and determines that the SPID and OCN value configured on the NPAC SMS do not match. This violates system requirements and the NPAC SMS fails the request.

E. Pass/Fail Analysis, NANC 414-2

Pass	Fail	NPAC personnel performed the test case as written.
Pass	Fail	Service Provider personnel performed the test case as written and handled the failure from the NPAC SMS.

Appendix A: Test Case Matrix

NANC 147 – Version ID Rollover Strategy					
Test Case Priority	**Test Case #**	**Test Case Description**	**Req.**	**IIS Flow**	**Test Results/Issues/Comments**
SOA - Required LSMS – N/A	147 – 1	NANC 355-1 SOA – Service Provider SOA application accepts an NPA-NXX modify request initiated by NPAC Personnel on the NPAC SMS where the NPA-NXX Effective Date is modified and the current date is less than the existing NPA-NXX Effective Date – Success NOTE: No Pending-like Subscription Versions or Scheduled NPA-NXX-Xs/NPBs exist within the respective NPA-NXX (Required)	RR3-649, RR3-650, RR3-651, RR3-652, RR3-653, RR3-654	B.5.1.2 SubscriptionVersion Create by the Initial SOA (New Service Provider) B.4.2.1 LRN Creation by the NPAC B.4.1.1 NPA-NXX Creation by the NPAC B.4.3.1 Service Provider NPA-NXX-X Create by NPAC SMS B.4.4.2 Number Pool Block Create by NPAC SMS	
NANC 355 – Modification of NPA-NXX Effective Date					
Test Case Priority	**Test Case #**	**Test Case Description**	**Req.**	**IIS Flows**	**Test Results/Issues/Comments**
SOA – Conditional LSMS – N/A	355 – 1	NANC 355-1 SOA – Service Provider SOA application accepts an NPA-NXX modify request initiated by NPAC Personnel on the NPAC SMS where the NPA-NXX Effective Date is modified and the current date is less than the existing NPA-NXX Effective Date – Success NOTE: No Pending-like Subscription Versions or Scheduled NPA-NXX-Xs/NPBs exist within the respective NPA-NXX	RR3-658, RR3-659, RR3-661, RR3-662, RR3-663, RR3-665, RR3-668, RR3-671, RR3-672, R3-655,	B.4.1.2 NPA-NXX Modification by NPAC	

SOA – N/A LSMS – Conditional	355 – 2	Service Provider LSMS application accepts an NPA-NXX modify request initiated by NPAC Personnel using the NPAC SMS where the NPA-NXX Effective Date is modified – Success	RR3-658, RR3-659, RR3-661, RR3-662, RR3-663, RR3-665, RR3-668, RR3-673, RR3-674, R3-655	B.4.1.2 NPA-NXX Modification by NPAC	
SOA – Optional LSMS – N/A	355 – 3	NANC 355-3 SOA – Service Provider Personnel attempt to submit an NPA-NXX modify request to the NPAC SMS – Error	RR3-660		
SOA – N/A LSMS – Optional	355 – 4	NANC 355-4 LSMS – Service Provider Personnel using their LSMS system attempt to submit an NPA-NXX modify request to the NPAC SMS – Error	RR3-660		
NANC 396 – NPAC Filter Management – NPA-NXX Filters					
Test Case Priority	**Test Case #**	**Test Case Description**	**Req.**	**IIS Flows**	**Test Results/Issues/Comments**
SOA – Required LSMS – Required	396 – 1 GROUP	NANC 396-1 SOA/LSMS – Service Provider Personnel (using their SOA) create an NPA-NXX for which Neustar NPAC Personnel have already established an NPA-NXX filter. LSMSs do not receive the NPA-NXX create download - Success In this test case, Neustar NPAC Personnel can create the NPA-NXX filter for some/not all Service Providers participating in the Group test. Then, one Service Provider participating in the test (and for whom a respective NPA-NXX filter was established) will create the NPA-NXX. The NPAC SMS will process the request, creating the NPA-NXX on the NPAC SMS and only broadcasting to those Service Providers for whom a filter does not exist.	RR3-696	B.4.1.1 NPA-NXX Creation by the NPAC or B.4.1.4 NPA-NXX Creation by the Local SMS or B.4.1.5 NPA-NXX Creation by the SOA	
SOA – N/A			RR3-693		

LSMS – Required	396 – 2 GROUP	NANC 396-2 LSMS – Service Provider Personnel (using their SOA) or NPAC Personnel activate a single SV where an NPA Filter exists for the TN specified in the activation request. LSMS does not receive download. – Success NPAC Personnel will establish the NPA filter during prerequisites for some/not all Service Providers participating in the test. The NPAC SMS will process the SV activate request broadcasting based on the filters. (based on regression TC 2.8)		B.5.1.5 SubscriptionVersion Activated by New Service Provider SOA B.5.1.6 Active SubscriptionVersion Create on Local SMS	
SOA – N/A LSMS – Required	396 – 3 GROUP	NANC 396-3 LSMS – Service Provider Personnel (using their SOA) or NPAC Personnel activate a single SV where an NPA Filter and NPA-NXX filter exists for the TN specified in the activation request. LSMS does not receive download – Success NPAC Personnel will establish the NPA filter during prerequisites for some/not all Service Providers participating in the test. Some but not all SPs (who support the functionality) will establish an NPA-NXX filter (NPAC will create it on behalf of SPs who cannot create filters over the interface). The NPAC SMS will process the SV activate request broadcasting based on the filters. (based on regression TC 2.8)	RR3-695, RR3-693	B.5.1.5 SubscriptionVersion Activated by New Service Provider SOA B.5.1.6 Active SubscriptionVersion Create on Local SMS	

NANC 408 – SPID Migration Automation Change

Test Case Priority	Test Case #	Test Case Description	Req.	IIS Flows	Test Results/Issues/Comments
SOA – Conditional	408 – 1	NANC 408 -1 SOA/LSMS – Service Provider SOA and LSMS applications that support Online SPID Migrations, accept a SPID	RR3-591, RR3-592	B.8.1.1 NPAC Initiated SPID	

LSMS – Conditional		Migration request from the NPAC SMS to change ownership of an NPA-NXX. NOTE: No Pending-like Subscription Versions or NPA-NXX-Xs/NPBs exist within the respective NPA-NXX (Conditional – if a SP application supports online SPID Migration, they must participate in this TC) NOTE: This is a Group test case.		Migration Request to Local System	
NANC 414 – Validation of Code Ownership in the NPAC					
Test Case Priority	**Test Case #**	**Test Case Description**	**Req.**	**IIS Flows**	**Test Results/Issues/Comments**
SOA – Optional LSMS – N/A	414 – 1	NANC 414 -1 SOA – Service Provider personnel using their SOA application submit a NPA-NXX create request where the SPID and OCN value as configured on the NPAC SMS do not match the request. – Error	R3-687	B.4.1.5 NPA-NXX Creation by the SOA	
SOA – N/A LSMS – Optional	414 - 2	NANC 414-2 LSMS – Service Provider personnel using their LSMS application submit a NPA-NXX create request where the SPID and OCN value as configured on the NPAC SMS do not match the request – Error	R3-687	B.4.1.4 NPA-NXX Creation by the Local SMS	

Appendix B: Test Plan Issues

Following are issues related to the NPAC Release 3.4 Test Plan:

#	Date	Issue	Status