

NPAC SMS/Individual Service Provider Certification and Regression Test Plan

For New Entrants Certification and Existing Service
Providers/Vendors Regression Testing up to and including
NPAC Release 3.4.0

Chapter 15

January 14, 2011
Release 3.4.0a

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15. Individual Turn Up Test Scenarios related to NPAC Release 3.4.0.

Section 15 contains all test cases written for individual Service Provider Turn Up testing of Release 3.4.0.x of the NPAC software.

1. 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 Request subscriptionAudit .	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 less than the Audit ID of the previous Audit object. NOTE: For the purposes of this test case we aren't concerned about audit discrepancies that may be found.

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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: <ol style="list-style-type: none"> 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 less than the ID on the previous SV create. 	SP	Service Provider SOA receives the M-EVENT-REPORT objectCreation and issues an M-EVENT-REPORT Confirmation back to the NPAC SMS: <ol style="list-style-type: none"> 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 than the ID on the previous SV create.
3.	NPAC	NPAC Personnel take action to issue an LRN create on behalf of the SUT, to the SUT: <ol style="list-style-type: none"> 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 less than the ID on the previous LRN create. 	SP	Service Provider SOA receives the M-Create Request serviceProvLRN and issues an M-Create Response back to the NPAC SMS: <ol style="list-style-type: none"> 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 less than the ID on the previous LRN create.
4.	NPAC	NPAC Personnel take action to issue an NPA-NXX create on behalf of the SUT, to the SUT: <ol style="list-style-type: none"> 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 less than the ID on the previous NPA-NXX create. 	SP	Service Provider SOA receives the M-Create Request serviceProvNPA-NXX and issues an M-Create Response back to the NPAC SMS: <ol style="list-style-type: none"> 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 less than the ID on the previous NPA-NXX create.
5. Conditio nal	NPAC	NPAC Personnel take action to issue an NPA-NXX-X create on behalf of the SUT, to the SUT: <ol style="list-style-type: none"> 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 less than the ID on the previous NPA-NXX-X create. 	SP	Service Provider SOA receives the M-Create Request serviceProvNPA-NXX-X and issues an M-Create Response back to the NPAC SMS: <ol style="list-style-type: none"> 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 less than the previous NPA-NXX-X create.
6. Conditio nal	NPAC	NPAC Personnel take action to issue a NPB create on behalf of the SUT, to the SUT: <ol style="list-style-type: none"> 1. Issue one NPB create where the Record ID is less than the rollover maximum. 	SP	Service Provider SOA receives the M-ACTION Response numberPoolBlock-Create and issues an M-Create Response back to the NPAC SMS: <ol style="list-style-type: none"> 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

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		<ol style="list-style-type: none"> 2. Issue one NPB create where the Record ID has been rolled over. 3. Issue one NPB create where the Record ID is less than the previous NPB create. 		<ol style="list-style-type: none"> 3. One NPA-NXX-X create where the Record ID is less than the previous NPB create.
7.	SP	<p>Service Provider Personnel perform a local query for the items created in this test case:</p> <ol style="list-style-type: none"> 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 less than the ID on a previous Audit request. 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 less than a previous SV create request. 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 less than a previous LRN create request. 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 less than a previous NPA-NXX create request. 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 less than a previous NPA-NXX-X create request. 6-1. NPB create request where the 	SP	<p>Verify that your application has handled each of the NPAC SMS responses for these ID inventory scenarios.</p>

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		<p>NPB ID is less than the rollover maximum.</p> <p>6-2. NPB create request where the NPB ID has been rolled over.</p> <p>6-3. NPB create request where the NPB ID is less than a previous NPB create request.</p>		
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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.

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

A. TEST IDENTITY

Test Case Number:	NANC 355-1	SUT Priority:	SOA	Required
			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 their production value.
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	Based on the Service Provider SOA NPA-NXX Modification Flag Indicator the NPAC SMS will send: 1. For SP SOAs that are accepting downloads for the NPA-NXX for which the Effective Date was modified: <ul style="list-style-type: none"> The NPAC SMS sends an 	SP	Based on the Service Provider SOA NPA-NXX Modification Flag Indicator setting: 1. 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. SOAs that received the M-SET request issue an M-SET response indicating the serviceProvNPA-NXX object was

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		<p>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.</p> <p>2. For SOAs that don't support NPA-NXX Modify as indicated in their Service Provider profile:</p> <ul style="list-style-type: none"> • The NPAC SMS sends an M-DELETE for the serviceProvNPA-NXX object. • The SOA responds to the M-DELETE. • Then the NPAC SMS sends an M-CREATE for the serviceProvNPA-NXX object (using the same object ID as the DELETE request for the same object) with the modified NPA-NXX Effective Date. 		<p>modified successfully.</p> <p>2. All SOAs in the region not accepting downloads for the modified NPA-NXX, receive an M-DELETE for the serviceProvNPA-NXX object that was modified by NPAC personnel in test step 1, and issue an M-DELETE response to the NPAC SMS.</p> <p>These same SOAs then receive the M-CREATE for the same serviceProvNPA-NXX object (including the same object ID indicated in the M-DELETE).</p>
3.	SP	Using their SOA, Service Providers perform a local query for the NPA-NXX that was modified during this test case.	SP	Verify the NPA-NXX exists with the modified NPA-NXX Effective Date.

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.

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A. TEST IDENTITY

Test Case Number:	NANC 355-2	SUT Priority:	SOA	N/A
			LSMS	Required
Objective:	NANC 355-2 LSMS - 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:	<ol style="list-style-type: none"> 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.	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	Based on the Service Provider LSMS NPA-NXX Modification Flag Indicator the NPAC SMS will send: <ol style="list-style-type: none"> 1. For SP LSMSs that are accepting downloads for the NPA-NXX for which the Effective Date was modified: <ul style="list-style-type: none"> • The NPAC SMS sends an M-SET request to all LSMSs that support NPA-NXX Modify as indicated 	SP	Based on the Service Provider LSMS NPA-NXX Modification Flag Indicator setting: <ol style="list-style-type: none"> 1. 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. 2. All LSMSs in the region not accepting downloads for the modified NPA-NXX, receive an M-DELETE for the serviceProvNPA-NXX object that was modified by NPAC

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		<p>in their Service Provider profile, for the NPA-NXX specifying the modified NPA-NXX Effective Date.</p> <p>2. LSMSs that don't support NPA-NXX Modify as indicated in their Service Provider profile:</p> <ul style="list-style-type: none"> • The NPAC SMS sends an M-DELETE for the serviceProvNPA-NXX object • The SOA responds to the M-DELETE. • Then the NPAC SMS sends an M-CREATE for the serviceProvNPA-NXX object (using the same object ID as the DELETE request for the same object) with the modified NPA-NXX Effective Date. 		<p>personnel in test step 1, and issue an M-DELETE response to the NPAC SMS.</p> <p>These same LSMSs then receive the M-CREATE for the same serviceProvNPA-NXX object (including the same object ID indicated in the M-DELETE).</p>
3.	NPAC	Using their LSMS, Service Providers perform a local query for the NPA-NXX that was modified during this test case.	SP	Verify the NPA-NXX exists with the modified NPA-NXX Effective Date.

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.

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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:	<ol style="list-style-type: none"> 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	<p>NPAC SMS receives an M-SET request for an NPA-NXX to modify the Effective Date.</p> <p>This violates system requirements and the NPAC SMS fails the request.</p> <p>If the Service Provider SOA supports Application Level Errors, the NPAC SMS issues an M-SET response processing_failure along with an error code.</p> <p>If the Service Provider SOA does not support Application Level Errors the NPAC SMS issues an M-SET response indicating access_denied.</p> <p>The respective NPA-NXX is not updated.</p>

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.

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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:	<ol style="list-style-type: none"> 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. If the Service Provider SOA supports Application Level Errors, the NPAC SMS issues an M-SET response processing_failure along with an error code. If the Service Provider SOA does not support Application Level Errors the 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.

3. NANC 408 – SPID Migration Automation Change

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:	<ol style="list-style-type: none"> 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 InpSpidMigration to SOAs and LSMSs in the region that support Automated SPID Migration Indicator (for their respective system).	SP	All SOAs and LSMSs in the region that support Automated SPID Migration receive the M-ACTION Request InpSpidMigration from the NPAC SMS and issue an M-ACTION Response InpSpidMigration 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.

4. 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:	<ol style="list-style-type: none"> 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	<p>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.</p> <p>SOA issues an M-CREATE Request serviceProvNPA-NXX to the NPAC SMS.</p>	NPAC	<p>NPAC receives the M-CREATE Request serviceProvNPA-NXX and determines that the SPID and OCN value configured on the NPAC SMS do not match.</p> <p>This violates system requirements.</p> <p>The NPAC SMS logs an error indicating that the NPA-NXX create request failed due to the OCN criteria mis-match.</p> <p>If the Service Provider SOA supports Application Level Errors, the NPAC SMS issues an M-CREATE Error Response to the SOA indicating processingFailure along with an error code.</p> <p>If the Service Provider SOA does not support Application Level Errors the NPAC SMS issues an M-SET response indicating access_denied.</p> <p>The respective NPA-NXX is not created.</p>

E. Pass/Fail Analysis, NANC 414-1

Pass	Fail	NPAC personnel performed the test case as written.
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Pass	Fail	Service Provider personnel performed the test case as written and handled the failure from the NPAC SMS.
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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:	<ol style="list-style-type: none"> 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
11.	SP	<p>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.</p> <p>LSMS issues an M-CREATE Request serviceProvNPA-NXX to the NPAC SMS.</p>	NPAC	<p>NPAC receives the M-CREATE Request serviceProvNPA-NXX and determines that the SPID and OCN value configured on the NPAC SMS do not match.</p> <p>This violates system requirements.</p> <p>The NPAC SMS logs an error indicating that the NPA-NXX create request failed due to the OCN criteria mis-match.</p> <p>If the Service Provider SOA supports Application Level Errors, the NPAC SMS issues an M-CREATE Error Response to the SOA indicating processingFailure along with an error code.</p> <p>If the Service Provider SOA does not support Application Level Errors the NPAC SMS issues an M-SET response indicating access_denied.</p> <p>The respective NPA-NXX is not created.</p>

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.

5. NANC 426 - Provide Modify Request Data to the SOA from Mass Updates

This change order can be certified by executing an updated existing test case from the Turn Up Test Plan.

A. TEST IDENTITY

Test Case Number:	NANC 68 - 1	SUT Priority:	SOA	Required Conditional
			LSMS	Optional
Objective:	NPAC OP GUI – NPAC Personnel submit a Mass Update request specifying a TN range (no Subscription Versions with status of, partial failure, sending and disconnect-pending exist within a Service Provider ID and for the TN range specified). If the Service Provider under test supports Number Pool blocks, the TN range specified should also completely include a Number Pool Block. – Success			

B. REFERENCES

NANC Change Order Revision Number:	N/A	Change Order Number(s):	NANC 68 – Mass Update Requirements Modification
NANC FRS Version Number:	2.0.0	Relevant Requirement(s):	R3-7.1, R3-7.2, R3-7.5, R3-7.6, R3-7.7
NANC IIS Version Number:	2.0.1	Relevant Flow(s):	B.8.3 Mass Update

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	<ol style="list-style-type: none"> 1. Verify that some Subscription Versions exist with a status of active, pending, cancel, cancel-pending, and conflict within the TN range and for the Service Provider you are going to specify in the Mass Update. 2. Verify no Subscription Versions exist with a status of partial failure, sending, and disconnect-pending. 3. If the Service Provider under test supports Number pooling, Verify a Number Pool Block (and pooled SVs) exist within the TN range specified. 4. The system under test is configured to receive downloads for the NPA or NPA-NXX used in this test case. 5. Verify the SOA Supports SV Type and all Optional Data element Indicators are set to their production values for the Service Provider under test. In this test case any Optional Data elements supported by the SP under test and SV Type data (if the SP under test supports it) should be specified. 6. Verify the Service Provider’s S-3.00 C, Attribute Value Change, For Mass update of Active SVs and NPBs notification priority 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.	NPAC	Using the NPAC OP GUI, NPAC Personnel submit a request for a Mass Update by specifying a TN Range (if the Service Provider under test supports Number	NPAC	The NPAC SMS searches the Subscription Version database for the Subscription Versions and Number Pool Block (if supported by SUT and indicated in the Mass Update criteria) that match the selection criteria. For all objects that match the criteria, the following occurs:

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		<p>Pooling, the TN range should completely include a Number Pool Block) for a Service Provider ID as the selection criteria. The following attributes will be mass updated (for respective TNs and (if supported by the SUT, Number Pool Block):</p> <ul style="list-style-type: none"> • LRN • SV Type – if supported by the Service Provider • ISVM DPC • ISVM SSN • CNAM DPC • CNAM SSN • LIDB DPC • LIDB SSN • WSMSC DPC – (if supported by the service provider) • WSMSC SSN – (if supported by the service provider) • Optional Data elements – if supported by the service provider) 		<ul style="list-style-type: none"> • The NPAC SMS logs an exception for each Subscription Version within the TN range specified for the Mass Update that has a status of either old, partial failure, sending, cancel or disconnect-pending . • If WSMSC data is supported by the LSMS it will be used in the Mass Update. • If Optional Data elements or SV Type are supported by the LSMS they will be used in the Mass Update.
2.	NPAC	<p>The NPAC SMS issues:</p> <ul style="list-style-type: none"> • An M-SET subscriptionVersion Request(s) to the LSMS under test to modify the specified attributes for non-pooled SVs in the Mass Update Request. • (If the original request criteria included a NPB) If the LSMS under test is non-EDR, the NPAC SMS issues an M-SET subscriptionVersion Request(s) to the non-EDR LSMS under test to modify the attributes for pooled SVs in the Mass Update Request. • (If the original request criteria included a NPB) If the LSMS under test is EDR, the NPAC SMS issues an M-SET for the number pool block to the EDR LSMSs accepting downloads for this NPA-NXX. 	SP	<p>The LSMS receives:</p> <ul style="list-style-type: none"> • The M-SET Request(s) for the non-pooled SVs. • (If the original request criteria included a NPB) If the LSMS is non-EDR, they receive the M-SET Request for the pooled SVs. • (If the original request criteria included a NPB) If the LSMS is EDR, they will receive the M-SET Request numberPoolBlock. <p>The LSMS updates the specified attributes for the Subscription Versions and Number Pool Block (if the original request criteria included a NPB) and issues the respective M-SET Response(s) back to the NPAC SMS.</p> <p>Only those LSMSs that support WSMSC data and/or Optional Data elements and SV Type will receive that information in the M-SET request.</p>
3.	NPAC	<p>Depending on the Service Provider under test TN Range Notification indicator: The NPAC SMS issues an M-EVENT-REPORT subscriptionVersionStatusAttributeValueChange OR subscriptionVersionRangeStatusAttributeValueChange to the Current</p>	SP	<p>The Current Service Provider SOA receives the M-EVENT-REPORTs from the NPAC SMS and issues M-EVENT-REPORT Confirmations back to the NPAC SMS indicating it received the NPAC Requests successfully.</p> <p>This includes the subscriptionVersionStatusAttributeValueChange (or RangeStatusAttributeValueChange depending on the TN Range Notification indicator), as well as the</p>

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		<p>Service Provider SOA to set the subscriptionVersionStatus to 'active' for each mass updated (non-pooled) Subscription Version in the range of TNs.</p> <p>The NPAC SMS issues an M-EVENT-REPORT numberPoolBlockStatusAttributeValueChange to the block holder Service Provider SOA to set the number pool block status to 'active' if the numberPoolBlockSOA-Origination indicator is 'TRUE'.</p>		<p>numberPoolBlockStatusAttributeValueChange (if the numberPoolBlockSOA-Origination indicator is set to TRUE).</p>
4.	NPAC	<p>If the Service Provider under test S-3.00 C, Attribute Value Change, For Mass update of Active SVs and NPBs notification priority is set to a value other than NONE then, depending on their TN Range Notification indicator, The NPAC SMS issues an M-EVENT-REPORT AttributeValueChange OR subscriptionVersionRangeAttributeValueChange to the Current Service Provider SOA with the modified attributes for the non-pooled subscription versions.</p> <p>The NPAC SMS would also issue an M-EVENT-REPORT numberPoolBlockAttributeValueChange to the Current/block holder Service Provider SOA with the modified attributes for the number pool block IF the numberPoolBlockSOA-OriginationIndicator is set to TRUE.</p>	SP	<p>The Current Service Provider SOA receives the M-EVENT-REPORTs from the NPAC SMS and issues M-EVENT-REPORT Confirmations back to the NPAC SMS indicating it received the NPAC Request successfully.</p> <p>This includes the subscriptionVersionAttributeValueChange (or RangeAttributeValueChange depending on the TN Range Notification indicator), as well as the numberPoolBlockAttributeValueChange (if the numberPoolBlockSOA-Origination indicator is set to TRUE).</p>
5.	NPAC	<p>Using the NPAC OP GUI, request a Mass Update Exception Report by specifying a time range that corresponds to the creation timestamp for the 'exception' log entries created as a result of the Mass Update requested.</p>	NPAC	<p>The NPAC SMS generates a Mass Update exception report to the specified destination, ordered by timestamp, including the following information for the Subscription Versions that were not updated during Mass Update processing:</p> <ul style="list-style-type: none"> • Subscription Version ID • TN • Current Service Provider • Event ID of the Mass Update Request • Timestamp of the Mass Update exception • Subscription Version status at the time of exception <p>The report for this test case will not contain exceptions.</p>
6.	NPAC	<p>NPAC Personnel perform a query for the Subscription Versions and Number Pool Block in the range that did not have exceptions to verify that the fields selected to be mass updated were modified.</p>	NPAC	<p>The Subscription Versions and Number Pool Blocks were modified correctly.</p>

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7.	SP - optional	SP Personnel, using their LSMS, perform a local query for the Subscription Versions and if you have an EDR LSMS also query for the Number Pool Block to verify that the fields selected to be mass updated were modified.	SP	The Subscription Versions and Number Pool Block were modified correctly. Verify that Active Subscription Versions (and if EDR LSMS) the active Number Pool Block that meet the Mass Update criteria are updated.
8.	SP	If the Service Provider under test S-3.00 C, Attribute Value Change, For Mass update of Active SVs and NPBs notification priority is set to a value other than NONE then SP Personnel using their SOA should perform a local query for the Subscription Versions and Number Pool Block (if the numberPoolBlockSOA-Origination Indicator is TRUE) to verify the fields selected to be mass updated were modified.	SP	The Subscription Version and Number Pool Block (if numberPoolBlockSOA-Origination Indicator is set to TRUE) attributes were modified as specified in the Mass Update request.
9.	SP – conditional	SP Personnel, using either the SOA/SOA LTI or LSMS, perform an NPAC query for the Subscription Versions and Number Pool Block in the range that did not have exceptions to verify that the Subscription Version fields selected to be mass updated were modified.	SP	The Subscription Versions and Number Pool Block were modified correctly. Verify that Active Subscription Versions (and if EDR LSMS) the active Number Pool Block that meet the Mass Update criteria are updated.
10.	NPAC	NPAC Personnel perform a full audit for the Subscription Version and Number Pool Block that were updated during this test case.	NPAC	Using the Audit Results Log verify that no updates were sent as a result of performing the audit. If updates were issued, the LSMS fails this test case.

E. Pass/Fail Analysis, NANC 68-1

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.

- 6. Additional/Optional Regression Testing (in addition to the actual Regression Phase of Turn Up Testing) – RECOMMENDED due to the importance of Medium Timers and one business day porting**