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.~~6~~8

Chapter 10

~~November 30~~December 31, 201~~3~~5
Release 3.4.~~6~~8

Table of Contents

Formatted: Default Paragraph Font, Check spelling and grammar

10.Individual Turn Up Test Scenarios Related to NPAC Release 3.0.

Section 10 contains all test cases written for individual Service Provider Turn Up testing of Release 3.0.x of the NPAC software.

10.1 Network Data Test Cases

A. TEST IDENTITY

Test Case Number:	**2.1**	***SUT PRIORITY:***	**SOA LTI**	N/A
			SOA	C
			LSMS	O
Objective:	SOA - Service Provider Personnel attempt to delete an NPA-NXX that is part of NPA-NXX-X Information (Block Data does not exist). - Error			

B. REFERENCES

NANC Change Order Revision Number:		***CHANGE ORDER NUMBER(S):***	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RX3-3.1
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B4.1.7 NPA-NXX Deletion by the SOA

C. PREREQUISITE

Prerequisite Test Cases:	N/A
Prerequisite NPAC Setup:	1. Verify that the NPA-NXX-X Information exists on the NPAC SMS respective to the NPA-NXX being deleted. 2. Verify that there are no Subscription Versions with LNP Type of LISP or LSPP and a status other than 'old' without a Failed SP List or 'cancelled' associated with the NPA-NXX to be deleted. 3. Verify that a Block respective to the NPA-NXX-X that will be used in this Test Case does not exist, nor does a Block Create Event exist.
Prerequisite SP Setup:	N/A

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	1. Using their SOA, Service Provider Personnel submit a request to the NPAC SMS to delete an NPA-NXX that they own and for which there is an associated NPA-NXX-X. 2. The SOA issues an M-DELETE Request in CMIP (or NXDQ – NpaNxxDeleteRequest in XML) serviceProvNPA-NXX to the NPAC.	NPAC	The NPAC SMS receives the Request from the SOA.
2.	NPAC	1. The NPAC SMS verifies that the Service Provider requesting the NPA-NXX delete request is the same as the Service Provider that owns the NPA-NXX on the NPAC SMS.	NPAC	1. The NPAC SMS determines that an NPA-NXX-X object exists for this NPA-NXX **(this violates system requirements)**. 2. The NPAC SMS rejects the NPA-NXX delete request.

		2. The NPAC SMS checks the NPA-NXX-X information table to see if any NPA-NXX-X objects exist for this NPA-NXX.		3. The NPAC SMS logs an error indicting that the NPA-NXX delete request failed due to the existence of NPA-NXX-X information. 4. The NPAC SMS issues an M-DELETE Error Response in CMIP to the SOA indicating **processingFailure** (or NXDR – NpaNxxDeleteReply in XML).
3.	SP	The SOA receives the Response from the NPAC SMS.	SP	The NPA-NXX is not deleted.
4.	NPAC	NPAC Personnel perform a query for the NPA-NXX.	NPAC	Verify that the NPA-NXX was not deleted from the local database.
5.	SP – Optional	Service Provider Personnel, using either the SOA or LSMS, perform a local query for the NPA-NXX.	SP	Verify that the NPA-NXX was not deleted from their local database.
6.	SP – Conditional	Service Provider Personnel, using either the SOA/SOA LTI or LSMS, perform an NPAC query for the NPA-NXX.	SP	Verify that the NPA-NXX was not deleted from the NPAC database.

A. TEST IDENTITY

Test Case Number:	**2.3**	***SUT PRIORITY:***	**SOA LTI**	N/A
			SOA	N/A
			LSMS	C
Objective:	LSMS - Service Provider Personnel attempt to delete an NPA-NXX that is part of NPA-NXX-X Information (Block exists with status of 'failed' and a Failed SP List). – Error **Note:** Per IIS3_4_1aPart2 scenario B.4.1.6, this flow is not available over the XML interface.			

B. REFERENCES

NANC Change Order Revision Number:		***CHANGE ORDER NUMBER(S):***	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RX3-3.1
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B4.1.6 NPA-NXX Deletion by the Local SMS

C. PREREQUISITE

Prerequisite Test Cases:	N/A
Prerequisite NPAC Setup:	1. Verify that the NPA-NXX-X Information exists on the NPAC SMS respective to the NPA-NXX being deleted. 2. Verify that there are no Subscription Versions with LNP Type of LISP or LSPP and a status other than 'old' without a Failed SP List or 'cancelled' associated with the NPA-NXX to be deleted. 3. Verify that a Block exists with a status of 'failed' and a Failed SP List for this NPA-NXX.
Prerequisite SP Setup:	N/A

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	1. Using their LSMS, Service Provider Personnel submit a request to the NPAC SMS to delete an NPA-NXX that they own and for which there is a respective NPA-NXX-X associated. 2. The LSMS issues an M-DELETE Request serviceProvNPA-NXX to the NPAC.	NPAC	The NPAC SMS receives the M-DELETE Request from the LSMS.
2.	NPAC	1. The NPAC SMS verifies that the Service Provider requesting the NPA-NXX delete request is the same as the Service Provider that owns the NPA-NXX on the NPAC SMS. 2. The NPAC SMS checks the NPA-NXX-X information table to see if any NPA-NXX-X objects exist for this NPA-NXX.	NPAC	1. The NPAC SMS determines that an NPA-NXX-X object or Block with a status other than 'old' and an empty Failed SP List, or Subscription Versions with a status other than 'old' and an empty Failed SP List exist for this NPA-NXX **(this violates system requirements)**. 2. The NPAC SMS rejects the NPA-NXX delete request. 3. The NPAC SMS logs an error indicting that the NPA-NXX delete request failed due to the existence of NPA-NXX-X information.

				4. The NPAC SMS issues an M-DELETE Error Response to the LSMS.
3.	SP	The LSMS receives the M-DELETE Response from the NPAC SMS.	SP	The NPA-NXX is not deleted.
4.	NPAC	NPAC Personnel perform a query for the NPA-NXX.	NPAC	Verify that the NPA-NXX was not deleted from the local database.
5.	SP – Optional	Service Provider Personnel, using either the SOA or LSMS, perform a local query for the NPA-NXX.	SP	Verify that the NPA-NXX was not deleted from their local database.
6.	SP – Conditional	Service Provider Personnel, using either the SOA/SOA LTI or LSMS, perform an NPAC query for the NPA-NXX.	SP	Verify that the NPA-NXX was not deleted from the NPAC database.

A. TEST IDENTITY

Test Case Number:	**2.4**	***SUT PRIORITY:***	**SOA LTI**	N/A
			SOA	C
			LSMS	O
Objective:	SOA - Service Provider Personnel attempt to delete a LRN that is associated with a Block with a status of 'old' and a Failed SP List. – Error			

B. REFERENCES

NANC Change Order Revision Number:		***CHANGE ORDER NUMBER(S):***	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RX3-3.2
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.4.2.3 LRN Deletion by the SOA

C. PREREQUISITE

Prerequisite Test Cases:	N/A
Prerequisite NPAC Setup:	1. Verify that NPA-NXX-X and Block Information exist on the NPAC SMS that uses the LRN being deleted. 2. Verify that there are no Subscription Versions with LNP Type of LISP or LSPP and a status other than 'old' without a Failed SP List or 'cancelled' associated with the LRN to be deleted. 3. Verify that a Block with the LRN that will be used in this Test Case exists with a status of 'old' with a Failed SP List.
Prerequisite SP Setup:	N/A

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	1. Using their SOA, Service Provider Personnel submit a request to delete an LRN that they own and for which there is an associated 'Old' with a FailedSP-List Block and NPA-NXX-X. 2. The SOA issues an M-DELETE Request in CMIP (or LRDQ – LrnDeleteRequest in XML) serviceProvLRN to the NPAC.	NPAC	The NPAC SMS receives the Request from the SOA.
2.	NPAC	1. The NPAC SMS verifies that the Service Provider that submitted the LRN delete request is the same as the Service Provider that owns the LRN on the NPAC SMS. 2. The NPAC SMS checks the Block Information table to see if any Block objects that exist on the NPAC SMS are using this LRN.	NPAC	1. The NPAC SMS determines that a Block object using this LRN exists on the NPAC SMS **(this violates system requirements)**. 2. The NPAC SMS rejects the LRN delete request. 3. The NPAC SMS logs an error indicating that the LRN delete request failed due to the existence of an 'active-like' Block. 4. The NPAC SMS issues an M-DELETE Error Response in CMIP indicating **processingFailure** (or LRDR – LrnDeleteReply in XML).

3.	SP	The SOA receives the Response from the NPAC SMS.	SP	The LRN is not deleted.
4.	NPAC	NPAC Personnel perform a query for the LRN.	NPAC	Verify that the LRN was not deleted from the local database.
5.	SP – Optional	Service Provider Personnel, using either the SOA or LSMS, perform a local query for the LRN.	SP	Verify that the LRN was not deleted from their local database.
6.	SP – Conditional	Service Provider Personnel, using either the SOA/SOA LTI or LSMS, perform an NPAC query for the LRN.	SP	Verify that the LRN was not deleted from the NPAC database.

A. TEST IDENTITY

Test Case Number:	**2.6**	***SUT PRIORITY:***	**SOA LTI**	N/A
			SOA	N/A
			LSMS	C
Objective:	LSMS - Service Provider Personnel attempt to delete a LRN that is associated with a Block that has a status of 'partial-fail' and a Failed SP List. – Error **Note:** Per IIS3_4_1aPart2 scenario B.4.2.7, this flow is not available over the XML interface.			

B. REFERENCES

NANC Change Order Revision Number:		***CHANGE ORDER NUMBER(S):***	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RX3-3.2
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.4.2.7 LRN Deletion by the Local SMS

C. PREREQUISITE

Prerequisite Test Cases:	N/A
Prerequisite NPAC Setup:	1. Verify that NPA-NXX-X and Block Information exist on the NPAC SMS that uses the LRN being deleted. 2. Verify that there are no Subscription Versions with LNP Type of LISP or LSPP and a status other than 'old' without a Failed SP List or 'cancelled' associated with the LRN to be deleted. 3. Verify that a Block with the LRN that will be used in this Test Case exists with a status of 'partial fail' and a Failed SP List.
Prerequisite SP Setup:	N/A

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	1. Using their LSMS, Service Provider Personnel submit a request to delete an LRN that they own and for which there is an associated 'Partial-Failure' Block (and NPA-NXX-X). 2. The LSMS issues an M-DELETE Request serviceProvLRN to the NPAC.	NPAC	The NPAC SMS receives the M-DELETE Request from the LSMS.
2.	NPAC	1. The NPAC SMS verifies that the Service Provider that submitted the LRN delete request is the same as the Service Provider that owns the LRN on the NPAC SMS. 2. The NPAC SMS checks the Block Information table to see if any Block objects that exist on the NPAC SMS are using this LRN.	NPAC	1. The NPAC SMS determines that a Block object using this LRN exists on the NPAC SMS **(this violates system requirements)**. 2. The NPAC SMS rejects the LRN delete request. 3. The NPAC SMS logs an error indicating that the LRN delete request failed due to the existence of an 'active-like' Block. 4. The NPAC SMS issues an M-DELETE error response to the LSMS.

3.	SP	The LSMS receives the M-DELETE Response from the NPAC SMS.	SP	The LRN is not deleted.
4.	NPAC	NPAC Personnel perform a query for the LRN.	NPAC	Verify that the LRN was not deleted from the local database.
5.	SP – Optional	Service Provider Personnel, using either the SOA or LSMS, perform a local query for the LRN.	SP	Verify that the LRN was not deleted from their local database.
6.	SP – Conditional	Service Provider Personnel, using either the SOA/SOA LTI or LSMS, perform an NPAC query for the LRN.	SP	Verify that the LRN was not deleted from the NPAC database.

10.2 NPA-NXX-X Test Cases

10.2.1 Create NPA-NXX-X Information Test Cases:

A. TEST IDENTITY

Test Case Number:	**3.1.1**	***SUT PRIORITY:***	**SOA LTI**	N/A
			SOA	C
			LSMS	C
Objective:	NPAC OP GUI - NPAC Personnel create NPA-NXX-X Information, where the Block Holder SPID is the same as the Code Holder SPID and the NPAC SMS schedules the Number Pool Block create, and the NPAC SMS activates upon scheduled date and time.- Success			

B. REFERENCES

NANC Change Order Revision Number:		***CHANGE ORDER NUMBER(S):***	NANC 109, NANC 394
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-61, RR3-63, RR3-64, RR3-65, RR3-66, RR3-67.1, RR67.2, RR3-68, RR3-69, RR3-70, RR3-71, RR3-72, RR3-73, RR3-75.1, RR3-75.3, RR3-76.1, RR3-76.2, RR3-78, RR3-79.1, RR3-79.2, RR3-84, RR3-85, RR3-92, RR3-93, RR3-94, RR3-119, RR3-120, RR3-121, RR3-122, RR3-123, RR3-128, RR3-129, RR3-130, RR3-149, RR3-151, RR5-85, RR5-86, RR5-87, RR3-477
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.4.3.1 Service Provider NPA-NXX-X Create by NPAC SMS B.4.4.3 Number Pool block Create Broadcast Successful to Local SMS B.4.4.4 Number Pool Block Create: Successful Broadcast

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify the NPA-NXX exists on the NPAC SMS for the NPA-NXX-X Information to be created. 2. Verify there have not been any ports against the NPA-NXX for the NPA-NXX-X Information to be created. 3. Verify that there are not any 'pending-like, no-active' Subscription Versions (Subscription Versions with a status of 'pending', 'conflict', 'cancel-pending', or 'failure') existing for TNs within the 1K Block. 4. Verify the systems under test support the NPA-NXX-X Indicator in their customer profile. 5. If a SOA is under test, configure this Service Provider as the Code Holder also. 6. Any system under test should be configured to receive downloads for the NPA-NXX used in this test scenario. 7. If the region and the SP under test support PLRN, this NPA-NXX-X may be created using a PLRN value. In this case, verify that the SUT LSMS as well as any other simulated LSMSs are included in the "PLRN Accepted SPID List" in their service provider profile so that these systems will receive notifications/downloads respective to

	this NPA-NXX-X. If a SPID is not included on the "PLRN Accepted SPID List" the NPAC will not send respective notifications/downloads to that system even if they are accepting downloads for this NPA-NXX.
Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	NPAC	1. Using the NPAC OP GUI, NPAC Personnel submit a request to create NPA-NXX-X Information, specifying the following: • **If** a Service Provider SOA is under test, indicate them as the Code Holder SPID and the Block Holder SPID • an Effective Date that is greater than or equal to the NPA-NXX Live Timestamp • the SOA Origination Indicator is set to FALSE • the default value as the scheduled date/time 2. The following attributes are required for the Number Pool Block Create Event to be scheduled: • numberPoolBlockNPA-NXX-X • numberPoolBlockSPID • numberPoolBlockLRN • numberPoolBlockCLASS-DPC • numberPoolBlockCLASS-SSN • numberPoolBlockCNAM-DPC • numberPoolBlockCNAM-SSN • numberPoolBlockISVM-DPC • numberPoolBlockISVM-SSN • numberPoolBlockLIDB-DPC • numberPoolBlockLIDB-SSN • numberPoolBlockWSMSC-DPC - if supported by the Service Provider SOA • numberPoolBlockWSMSC-SSN - if supported by the Service Provider SOA	NPAC	1. The NPAC SMS provides the serviceProvNPA-NXX-X Value, serviceProvNPA-NXX-X-EffectiveTimeStamp, and Block Holder SPID. 2. The NPAC SMS performs the following validations for the NPA-NXX-X Information: • Verifies that the serviceProvNPA-NXX-X value is an existing NPA-NXX on the NPAC SMS. • Verifies that the NPA-NXX-X Effective Date is greater than or equal to the NPA-NXX Live Timestamp. • Verifies that there is not a serviceProvNPA-NXX-X object that already exists with this NPA-NXX-X value. • Verifies that the NPA-NXX-X Service Provider ID is an existing Service Provider on the NPAC SMS. • Verifies there are not any Subscription Versions within the 1K Block with a status of 'pending', 'conflict', 'cancel-pending', or 'failed' without a respective 'active' Subscription Version. 3. The NPAC SMS performs the following validations for the Number Pool Block Create Information: • Verifies the NPA-NXX-X exists for the respective Number Pool Block. • Verifies all attributes specified are valid (performs field level validations, as well as verifies the scheduled date/time is a valid date and time and is greater than or equal to the NPA-NXX Live Timestamp, and that the LRN specified is a valid LRN for the Block Holder SPID defined on the NPAC SMS). • Verifies a numberPoolBlock object does not already exist for the NPA-NXX-X specified. • Verifies there are not any Subscription Versions within the 1K Block with a status of 'pending', 'conflict', 'cancel-pending' or 'failed', without a respective 'active' Subscription Version.
2.	NPAC	1. The NPAC SMS issues an M-CREATE Request serviceProvNPA-NXX-X to itself. 2. The NPAC SMS sets the following attributes: • **s**erviceProvNPA-NXX-X-ID	NPAC	1. The NPAC SMS issues an M-CREATE Response serviceProvNPA-NXX-X to itself. 2. The NPAC SMS 'schedules' the Number Pool Block Create Event based on the GUI entry for NPA-NXX-X Effective Date.

		• servicProvNPA-NXX-X-Value • servicProvNPA-NXX-X-CreationTimeStamp • servicProvNPA-NXX-X-EffectiveTimeStamp • servicProvNPA-NXX-X-ModifiedTimeStamp • servicProvNPA-NXX-X-DownloadReason		
3.	NPAC	The NPAC SMS sends the subscriptionVersionNewNPA-NXX notification (NPA-NXX First Usage) in CMIP (or NNXN – NewNpaNxxNotification in XML) to the LSMS.	SP	The LSMS confirms in CMIP (or NOTR – NotificationReply in XML) the subscriptionVersionNewNPA-NXX notification.
4.	NPAC	The NPAC SMS sends the subscriptionVersionNewNPA-NXX notification (NPA-NXX First Usage) in CMIP (or NNXN – NewNpaNxxNotification in XML) to the SOA	SP	The SOA confirms in CMIP (or NOTR –NotificationReply in XML) the subscriptionVersionNewNPA-NXX notification.
5.	NPAC	1. The NPAC SMS sends an M-CREATE Request in CMIP (or DXCD – NpaNxxDxCreateDownload in XML) to the LSMS under test for the serviceProvNPA-NXX-X. The following attributes are included: • **s**erviceProvNPA-NXX-X-ID • serviceProvNPA-NXX-X-Value • serviceProvNPA-NXX-X-CreationTimeStamp • serviceProvNPA-NXX-X-EffectiveTimeStamp • serviceProvNPA-NXX-X-ModifiedTimeStamp • serviceProvNPA-NXX-X-DownloadReason 2. The NPAC SMS sends an M-CREATE request in CMIP (or DXCD – NpaNxxDxCreateDownload in XML) to the SOA under test for the serviceProvNPA-NXX-X. The following attributes are included: • **s**erviceProvNPA-NXX-X-ID • serviceProvNPA-NXX-X-Value • serviceProvNPA-NXX-X-CreationTimeStamp • serviceProvNPA-NXX-X-EffectiveTimeStamp • serviceProvNPA-NXX-X-ModifiedTimeStamp • serviceProvNPA-NXX-X-DownloadReason	SP	1. The LSMS receives the Request for the serviceProvNPA-NXX-X object. 2. The SOA receives the Request for the serviceProvNPA-NXX-X object.

6.	SP	1. The SOA sends an M-CREATE Response in CMIP (or DNLR – DownloadReply in XML) to the NPAC SMS indicating the serviceProvNPA-NXX-X object was successfully created. 2. The LSMS sends an M-CREATE Response in CMIP (or DNLR – DownloadReply in XML) to the NPAC SMS indicating the serviceProvNPA-NXX-X object was successfully created.	NPAC	1. The NPAC SMS receives the serviceProvNPA-NXX-X Responses from the SOA. 2. The NPAC SMS receives the serviceProvNPA-NXX-X Responses from the LSMS.
7.	NPAC	NPAC Personnel perform an NPA-NXX-X Query on the NPAC SMS.	NPAC	Verify that the NPA-NXX-X exists on the NPAC SMS.
8.	SP – Optional	Service Provider Personnel perform an NPA-NXX-X Query on their local system.	SP	1. If the SOA is under test verify you have the NPA-NXX-X. 2. If the LSMS is under test verify you have the NPA-NXX-X.
9.	SP – Conditional	Service Provider Personnel, using their local system perform an NPAC query for the NPA-NXX-X.	SP	Verify that the NPA-NXX-X exists on the NPAC SMS.
10.	NPAC	NPAC Personnel query for the Number Pool Block Create Event.	NPAC	Verify that the Number Pool Block Create Event is scheduled according to the default, scheduled date/time.
11.	NPAC	NPAC Personnel view the web bulletin board on the NPAC website for the respective region in which this NPA-NXX-X was created.	NPAC	Verify that the following attributes were added to the web bulletin board: • NPAC Customer ID • NPAC Customer Name • NPA-NXX-X Value • NPA-NXX-X Effective Date
12.	NPAC	The NPA-NXX-X Effective Date is reached.	NPAC	1. On the Effective Date (the scheduled date/time) the NPAC SMS issues an M-ACTION Request numberPoolBlock Create to itself. 2. The NPAC SMS verifies the following information: • The serviceProvNPA-NXX-X object exists for the NPA-NXX-X (respective NPA-NXX-X information). • All attributes specified are valid. • A numberPoolBlockNPAC object does not already exist for the NPA-NXX-X (a duplicate Number Pool Block does not already exist), or if one exists it has a status of 'old' with an empty failed SP list. • The current date is greater than or equal to the NPA-NXX-X Effective Timestamp. • No Subscription Version objects exist within the Number Pool Block with a status of 'pending', 'conflict', 'cancel-pending' or 'failed', and no active Subscription Versions exist for those TNs.
13.	NPAC	The NPAC SMS issues an M-CREATE Request numberPoolBlockNPAC to itself and sets the following attributes: • The numberPoolBlockSOA-Origination Indicator is set to FALSE. • The numberPoolBlockCreationTimeStamp, numberPoolBlockActivationTimeStamp	NPAC	The NPAC SMS issues an M-CREATE Response numberPoolBlockNPAC to itself.

		, numberPoolBlockBroadcastTimeStamp and numberPoolBlockModifiedTimeStamp are set to the current date and time. • The numberPoolBlockStatus is set to 'sending'.		
14.	NPAC	1. The NPAC SMS issues an M-CREATE request to create the corresponding subscriptionVersionNPAC object(s). 2. The Subscription Versions that are created have an LNP Type set to 'POOL' and the status is set to 'sending'. The subscriptionModifiedTimeStamp, subscriptionActivationTimeStamp, subscriptionBroadcastTimeStamp and subscriptionCreationTimeStamp are set to the current date and time.	NPAC	The NPAC SMS issues an M-CREATE Response subscriptionVersionNPAC to itself.
15.	NPAC	The NPAC SMS issues an M-ACTION Response numberPoolBlock-Create to itself.		
16.	NPAC	1. The NPAC SMS issues an M-CREATE Request numberPoolBlock in CMIP (or PBCD – NpbCreateDownload in XML) to the LSMS.	SP	1. The LSMS returns an M-CREATE Response numberPoolBlock in CMIP (or DNLR – DownloadReply in XML). 2. Upon the first successful response from an LSMS, the NPAC SMS sets the following timestamps to the current date and time: • numberPoolBlockActivationCompleteTimeStamp • subscriptionActivationCompleteTimeStamp • numberPoolBlockModifiedTimeStamp • subscriptionModifiedTimeStamp
18.	NPAC	1. The NPAC SMS issues an M-SET Request subscriptionVersionNPAC to itself. 2. The NPAC SMS updates all the subscriptionVersionNPAC objects (Subscription Versions) within the 1K Block that were broadcast by setting the subscriptionVersionStatus to 'active', and setting the subscriptionModifiedTimeStamp to the current date and time.	NPAC	The NPAC SMS issues an M-SET Response to itself.
19.	NPAC	1. The NPAC SMS issues an M-SET Request numberPoolBlockNPAC to itself. 2. The NPAC SMS updates the numberPoolBlock by setting the numberPoolBlockStatus to 'active' and setting the numberPoolBlockModifiedTimeStamp to the current date and time.	NPAC	The NPAC SMS issues an M-SET Response to itself.

20.	NPAC	NPAC Personnel perform a query for the Number Pool Block and the 1K Block of Subscription Versions of LNP Type 'POOL'.	NPAC	1. Verify the Number Pool Block exists with a status of 'active' and an empty Failed SP List. 2. Verify the 1K Block of Subscription Versions exist with an LNP Type set to 'POOL', a status of 'active' and an empty Failed SP List. 3. Verify data integrity (LRN and GTT data) has been maintained between the 1K Block and the Subscription Versions of LNP Type set to 'POOL'.
21.	SP – Optional	Service Provider Personnel, perform a local query for the Number Pool Block and the 1K Block of Subscription Versions.	SP	1. Verify that the Number Pool Block exists on its LSMS with a status of 'active'. 2. Verify the Number Pool Block exists with a status of 'Active' and an empty Failed SP List. 3.
22.	SP – Conditional	Service Provider Personnel, using their local system, perform an NPAC query for the Number Pool Block and the 1K Block of Subscription Versions.	SP	1. Verify the Number Pool Block exists with a status of 'active' and an empty Failed SP List exists on the NPAC SMS. 2.
23.	SP-Optional	1. Service Provider Personnel query for the NPA-NXX First Usage Notification on their SOA. 2. Service Provider Personnel query for the NPA-NXX First Usage Notification on their LSMS.	SP	1. Verify the NPA-NXX First Usage notification, respective to this NPA-NXX-X value in this Test Case, exists on their SOA. 2. Verify the NPA-NXX First Usage notification, respective to this NPA-NXX-X value in this Test Case, exists on their LSMS.

Note: When setting the 'SOA Origination' Indicator to FALSE in the NPA-NXX-X create, NPAC Personnel have to enter the Number Pool Block Default routing information. This information is not sent with the NPA-NXX-X create it will be sent to LSMSs upon Number Pool Block creation/activation on the NPAC SMS.

A. TEST IDENTITY

Test Case Number:	**3.1.3**	**SUT Priority:**	**SOA LTI**	N/A
			SOA	C
			LSMS	C
Objective:	NPAC OP GUI - NPAC Personnel create NPA-NXX-X Information where the NPA-NXX has not had any previous ports and where the Block Holder SPID is the associated SPID and the Code Holder SPID is the primary SPID. The following Service Provider configurations are in place: 1. 1 with LSMS NPA-NXX-X Indicator set to TRUE and SOA NPA-NXX-X Indicator set to FALSE with a filter set to receive the download. 2. 1 with LSMS NPA-NXX-X Indicator set to FALSE and SOA NPA-NXX-X Indicator set to TRUE with a filter set to receive the download. 3. 1 with LSMS NPA-NXX-X Indicator set to TRUE and SOA NPA-NXX-X Indicator set to FALSE with a filter set to NOT receive the download. 4. 1 with LSMS NPA-NXX-X Indicator set to FALSE and SOA NPA-NXX-X Indicator set to TRUE with a filter set to NOT receive the download). – Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-75.1, R3-113
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.4.3.1 Service Provider NPA-NXX-X Create by NPAC SMS B.4.3.1.1 Service Provider NPA-NXX-X Create by NPAC SMS (continued)

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify the NPA-NXX exists on the NPAC SMS for the NPA-NXX-X Information to be created. 2. Verify there have not been any ports against the NPA-NXX for the NPA-NXX-X Information to be created. 3. Verify that there are not any 'pending-like, no-active' Subscription Versions (Subscription Versions with 'pending', 'conflict', 'cancel-pending', or 'failure') existing for TNs within the 1K Block. 4. Verify the following Service Provider configurations exist: • **S**ervice Provider ('A') is the primary SPID, has a filter set to receive the NPA-NXX, an LSMS NPA-NXX-X Indicator of TRUE and a SOA NPA-NXX-X Indicator of FALSE. • Service Provider ('B') is the associated SPID, has a filter set to receive the NPA-NXX, an LSMS NPA-NXX-X Indicator of FALSE and a SOA NPA-NXX-X Indicator of TRUE. • Service Provider ('C') has a filter set to not receive the NPA-NXX and an LSMS NPA-NXX-X Indicator of TRUE and a SOA NPA-NXX-X Indicator of FALSE. • Service Provider ('D') has a filter set to not receive the NPA-NXX and an LSMS NPA-NXX-X Indicator of FALSE and a SOA NPA-NXX-X Indicator of TRUE.
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 to create NPA-NXX-X Information specifying the following values: • an NPA-NXX value that has not had any previous ports against it • an Effective Date that is equal to or greater than the NPA-NXX Live Timestamp • a Block Holder SPID that is different from the Code Holder SPID • set 'SOA Origination' Indicator to TRUE for the Number Pool Block Information to be created	NPAC	1. NPAC provides the serviceProvNPA-NXX-X Value, serviceProvNPA-NXX-X-EffectiveTimeStamp, and Block Holder SPID. 2. The NPAC SMS performs the following validations for the NPA-NXX-X Information: • Verifies that the serviceProvNPA-NXX-X value is an existing NPA-NXX on the NPAC SMS. • Verifies that the NPA-NXX-X Effective Date is greater than or equal to the NPA-NXX Live Timestamp. • Verifies that the NPA-NXX-X Effective Date is greater than or equal to the current date plus the Effective Date tunable number of days. • Verifies that there is not a serviceProvNPA-NXX-X object that already exists with this NPA-NXX-X value. • Verifies that the NPA-NXX-X Service Provider ID is an existing Service Provider on the NPAC SMS. • Verifies there are not any Subscription Versions within the 1K Block with a status of 'pending', 'conflict', 'cancel-pending', or 'failed' without a respective 'active' Subscription Version.
2.	NPAC	1. The NPAC SMS issues an M-CREATE request serviceProvNPA-NXX-X to itself. 2. The NPAC SMS sets the following attributes: • serviceProvNPA-NXX-X-ID • serviceProvNPA-NXX-X-Value • serviceProvNPA-NXX-X-CreationTimeStamp • serviceProvNPA-NXX-X-EffectiveTimeStamp • serviceProvNPA-NXX-X-ModifiedTimeStamp • serviceProvNPA-NXX-X-DownloadReason	NPAC	The NPAC SMS issues an M-CREATE Response to itself.
3.	NPAC	The NPAC SMS sends the subscriptionVersionNewNPA-NXX notification (NPA-NXX First Usage) in CMIP (or NNXN – NewNpaNxxNotification in XML) to all SOAs in the region who are accepting downloads for this NPA-NXX.	SP	The SOAs in the region accepting downloads for this NPA-NXX confirm in CMIP (or NOTR –NotificationReply in XML) the subscriptionVersionNewNPA-NXX notification.
4.	NPAC	The NPAC SMS sends the subscriptionVersionNewNPA-NXX notification (NPA-NXX First Usage)	SP	The LSMSs in the region accepting downloads for this NPA-NXX confirm in CMIP (or NOTR –NotificationReply in XML) the subscriptionVersionNewNPA-NXX notification.

		in CMIP (or NNXN – NewNpaNxxNotification in XML) to all LSMSs in the region who are accepting downloads for this NPA-NXX.		
5.	NPAC	1. The NPAC SMS sends an M-CREATE request in CMIP (or DXCD – NpaNxxDxCreateDownload in XML) to all SOAs for the serviceProvNPA-NXX-X who support the object according to the 'NPAC Customer SOA NPA-NXX-X Indicator' in their Service Provider Profile, and are accepting downloads for this NPA-NXX. The following attributes are included: • serviceProvNPA-NXX-X-ID • serviceProvNPA-NXX-X-Value • serviceProvNPA-NXX-X-CreationTimeStamp • serviceProvNPA-NXX-X-ModifiedTimeStamp • serviceProvNPA-NXX-X-EffectiveTimeStamp • serviceProvNPA-NXX-X-DownloadReason 2. The NPAC SMS sends an M-CREATE request in CMIP (or DXCD – NpaNxxDxCreateDownload in XML) to all LSMSs for the serviceProvNPA-NXX-X who support the object according to the 'NPAC Customer LSMS NPA-NXX-X Indicator' in their Service Provider Profile, and are accepting downloads for this NPA-NXX. The following attributes are included: • serviceProvNPA-NXX-X-ID • serviceProvNPA-NXX-X-Value • serviceProvNPA-NXX-X-CreationTimeStamp • serviceProvNPA-NXX-X-ModifiedTimeStamp • serviceProvNPA-NXX-X-EffectiveTimeStamp • serviceProvNPA-NXX-X-DownloadReason	SP	1. SOAs, accepting downloads for this NPA-NXX and with the 'NPAC Customer SOA NPA-NXX-X Indicator' set to TRUE, receive the Request for the serviceProvNPA-NXX-X object. 2. LSMSs, accepting downloads for this NPA-NXX and with the 'NPAC Customer LSMS NPA-NXX-X Indicator' set to TRUE, receive the Request for the serviceProvNPA-NXX-X object.

6.	SP	1. SOAs send M-CREATE Response(s) in CMIP (or DNLR – DownloadReply in XML) to the NPAC SMS indicating the serviceProvNPA-NXX-X object was successfully created. 2. LSMSs send M-CREATE Response(s) in CMIP (or DNLR – DownloadReply in XML) to the NPAC SMS indicating the serviceProvNPA-NXX-X object was successfully created.	NPAC	1. The NPAC SMS receives the serviceProvNPA-NXX-X Responses from the SOAs in the region. 2. The NPAC SMS receives the serviceProvNPA-NXX-X Responses from the LSMSs in the region.
7.	NPAC	NPAC Personnel perform an NPA-NXX-X Query on the NPAC SMS.	NPAC	Verify that the NPA-NXX-X exists on the NPAC SMS.
8.	SP – Optional	Service Provider Personnel perform an NPA-NXX-X Query on their local system.	SP	1. Service Provider 'A' verifies that it has the NPA-NXX-X on its LSMS, but not its SOA (based on its NPA-NXX-X Indicators in its Service Provider Profile). 2. Service Provider 'B' verifies that it has the NPA-NXX-X on its SOA, but not its LSMS (Based on its NPA-NXX-X Indicators in its Service Provider Profile). 3. Service Providers 'C' and 'D' verify that they do not have the NPA-NXX-X on either system (this is based on the fact that they had a filter set to NOT receive downloads for this NPA-NXX – regardless of their NPA-NXX-X Indicators in their Service Provider Profile).
9.	SP – Optional	1. Service Provider Personnel query for the NPA-NXX First Usage Notification on their SOA. 2. Service Provider Personnel query for the NPA-NXX First Usage Notification on their LSMS.	SP	1. Verify the NPA-NXX First Usage notification, respective to this NPA-NXX-X value in this Test Case, exists on their SOA. 2. Verify the NPA-NXX First Usage notification, respective to this NPA-NXX-X value in this Test Case, exists on their LSMS. 3. Service Providers 'C' and 'D' verify that they do not have the NPA-NXX-X on either system (this is based on the fact that they had a filter set to NOT receive downloads for this NPA-NXX – regardless of their NPA-NXX-X Indicators in their Service Provider Profile).
10.	NPAC	NPAC Personnel query for a Number Pool Block Create Event specifying the respective NPA-NXX-X value, which was used in this Test Case.	NPAC	Verify that a Number Pool Block Create Event scheduled is not scheduled with this NPA-NXX-X value.
11.	SP – Conditional	Service Provider Personnel, perform an NPAC SMS query for the respective NPA-NXX-X value that was used in this Test Case.	SP	Verify that the NPA-NXX-X exists on the NPAC SMS.

10.2.2 Modify NPA-NXX-X Information Test Cases:

A. TEST IDENTITY

Test Case Number:	**3.2.1**	***SUT PRIORITY:***	**SOA LTI**	N/A
			SOA	C
			LSMS	C
Objective:	NPAC OP GUI - NPAC Personnel modify the Effective Date of the NPA-NXX-X Information - Success			

B. REFERENCES

NANC Change Order Revision Number:		***CHANGE ORDER NUMBER(S):***	NANC 109, NANC 394
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-61, RR3-95, RR3-96, RR3-97, RR3-99, RR3-100, RR3-101, RR3-483
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.4.3.2 Service Provider NPA-NXX-X Modification by NPAC SMS

C. PREREQUISITE

Prerequisite Test Cases:	3.1.1NPAC OP GUI - NPAC Personnel create NPA-NXX-X Information, where the Block Holder SPID is the same as the Code Holder SPID and the NPAC SMS schedules the Number Pool Block create, and the NPAC SMS activates upon scheduled date and time.- Success
Prerequisite NPAC Setup:	1. Verify the NPA-NXX-X to be modified exists on the NPAC SMS, with a respective Number Pool Block Create Event scheduled to run. 2. Verify the current date is less than the current NPA-NXX-X Effective Date. 3. The systems under test support the NPA-NXX-X Indicator in their customer profile. 4. Any system under test should be configured to receive downloads for the NPA-NXX used in this test scenario.
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 to modify the Effective Date of an existing NPA-NXX-X on the NPAC SMS with a respective Number Pool Block Create Event scheduled to run. Service Provider Personnel modify the Effective Date to a date greater than the current date, as well as greater than the NPA-NXX-X Creation Date, and greater than or equal to the NPA-NXX Live Timestamp.	NPAC	The NPAC SMS performs the following validations: • Verifies that the modified Effective Date is equal to or greater than the current date. • Verifies that the modified Effective Date for the NPA-NXX-X is equal to or greater than the NPA-NXX-X Creation Date and greater than or equal to the NPA-NXX Live Timestamp. • Determines that there is a respective Number Pool Block Create Event associated with this NPA-NXX-X, and modifies the scheduled date/time to the new NPA-NXX-X Effective Date.
2.	NPAC	The NPAC SMS issues an M-SET Request serviceProvNPA-NXX-X to itself, to update the serviceProvNPA-NXX-X-EffectiveTimeStamp and set the serviceProvNPA-NXX-X-ModifiedTimeStamp.		The NPAC SMS issues an M-SET Response serviceProvNPA-NXX-X to itself.

3.	NPAC	1. The NPAC SMS sends an M-SET Request (in CMIP (or DXMD – NpaNxxDxModifyDownload in XML) to update the serviceProvNPA-NXX-X object to the SOA under test. 2. The NPAC SMS sends an M-SET Request (in CMIP (or DXMD – NpaNxxDxModifyDownload in XML) to update the serviceProvNPA-NXX-X object to the LSMS under test.	SP	1. The SOA receives the Request for the serviceProvNPA-NXX-X object. 2. The LSMS receives the Request for the serviceProvNPA-NXX-X object.
4.	SP	1. If the SOA is under test, sends an M-SET Response in CMIP (or DNLR – DownloadReply in XML) to the NPAC SMS indicating the modification was successful. 2. If the LSMS is under test, send an M-SET Response in CMIP (or DNLR – DownloadReply in XML) to the NPAC SMS indicating the modification was successful.	NPAC	1. The NPAC SMS receives the serviceProvNPA-NXX-X Responses from the SOA. 2. The NPAC SMS receives the serviceProvNPA-NXX-X Responses from the LSMS.
5.	NPAC	NPAC Personnel perform an NPA-NXX-X Query on the NPAC SMS.	NPAC	Verify that the NPA-NXX-X exists, and that the NPA-NXX-X Effective Date reflects the new, modified date.
6.	SP – Optional	Service Provider Personnel perform an NPA-NXX-X Query on their SOA and/or LSMS.	SP	Verify the NPA-NXX-X exists on their local system and that it reflects the new, modified NPA-NXX-X Effective Date.
7.	SP - Conditional	Service Provider Personnel, perform an NPAC SMS query for the NPA-NXX-X which was used in this Test Case.	SP	Verify the NPA-NXX-X exists on the NPAC SMS and that it reflects the new, modified NPA-NXX-X Effective Date.
8.	NPAC	NPAC Personnel perform a Number Pool Block Create Event Query.	NPAC	Verify that the respective Number Pool Block Create Event, to this NPA-NXX-X is scheduled to run on the new, modified NPA-NXX-X Effective Date.

10.2.3 Delete NPA-NXX-X Information Test Cases:

A. TEST IDENTITY

Test Case Number:	**3.3.1**	***SUT PRIORITY:***	**SOA LTI**	N/A
			SOA	C
			LSMS	C
Objective:	NPAC OP GUI - NPAC Personnel delete NPA-NXX-X Information when subordinate information (Number Pool Block and Subscription Versions) exist, post Effective Date- Success			

B. REFERENCES

NANC Change Order Revision Number:		***CHANGE ORDER NUMBER(S):***	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-61, RR3-102, RR3-103, RR3-110, RR3-111, RR3-120, RR3-121, RR3-122, RR3-137.4 (row1), RR3-138.2 (row1), RR3-173, RR3-174, RR3-175, RR3-176, RR3-177, RR3-178, RR3-179, RR5-85, RR5-86, RR5-87, RR5-111
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.4.4.23 Number Pool Block De-Pool by NPAC SMS B.4.4.24 Number Pool Block De-Pool Broadcast of Subscription Version and Number Pool Block Deletes B.4.4.25 Number Pool Block De-Pool Broadcast Successful NPA-NXX-X Updates

C. PREREQUISITE

Prerequisite Test Cases:	3.1.1 NPAC OP GUI - NPAC Personnel create NPA-NXX-X Information, where the Block Holder SPID is the same as the Code Holder SPID and the NPAC SMS schedules the Number Pool Block create, and the NPAC SMS activates upon scheduled date and time.- Success Success
Prerequisite NPAC Setup:	1. Verify the NPA-NXX-X and subordinate Number Pool Block to be deleted (in an 'active' status with an empty Failed-SP-List) exists on the NPAC SMS. 2. Verify there are not any 'Pending-Like, with Active Pool' Subscription Versions (Subscription Versions with 'pending', 'conflict', 'cancel-pending', or 'failure') where the Old Service Provider is the Block Holder SPID and the current active Subscription Version is of LNP Type set to 'POOL'. 3. Verify there are not any 'Pending-Like, Port-to-Original' Subscription Versions (Subscription Versions with 'pending', 'conflict', 'cancel-pending', or 'failure') where the Port-to-Original Indicator is TRUE. 4. Verify that the Service Provider under test is configured to receive data downloads for this NPA-NXX and their LSMS NPA-NXX-X Indicator and SOA NPA-NXX-X Indicator are set to their production values in their customer profile on the NPAC SMS. **Only Service Provider systems that support the NPA-NXX-X Indicator need to perform this test case during a Regression Test cycle. Otherwise it is a New Entrant/New Vendor, Exp Entrant/New Vendor, New Entrant/Exp Vendor only test case.** 5. Verify that the SOA Origination Indicator is set to TRUE, for the Number Pool Block that is being deleted. 6. If there is a SOA system under test, they should also be set up as the Code Holder. 7. Verify the L-6.0B Subscription Version - Donor SP - Customer Disconnect Date Notification (Scenario B: the Number Pool Block is de-pooled and the associated pooled SVs are returning back to the NPA-NXX (code) owner.) is set to the production value for the SOA system under test.

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 to delete an NPA-NXX-X when the NPA-NXX-X, subordinate Number Pool Block (with an 'active' status and empty Failed-SP-List) and subordinate, pooled Subscription Version information exist on the NPAC SMS.	NPAC	The NPAC SMS verifies that for the subordinate, pooled Subscription Versions that exist for this NPA-NXX-X, there are not any: • Subscription Versions with a status of 'pending', 'conflict', 'cancel-pending' or 'failed' where the Old Service Provider is Block Holder SPID and the current active Subscription Version is LNP Type of 'POOL'. • Subscription Versions with a status of 'pending', 'conflict', 'cancel-pending' or 'failed' where the Port-to-Original Indicator is TRUE.
2.	NPAC	1. The NPAC SMS issues an M-SET Request numberPoolBlockNPAC to itself, and sets the status of the Number Pool Block information to sending as well as set the numberPoolBlockBroadcastTimeStamp to the current date and time. 2. The NPAC SMS issues an M-SET Request subscriptionVersionNPAC to itself, and sets the status of the Subscription Versions within the 1K Block to sending as well as set the subscriptionVersionModifiedTimeStamp to the current date and time.	NPAC	1. The NPAC SMS issues an M-SET Response numberPoolBlock to itself. 2. The NPAC SMS issues an M-SET Response subscriptionVersionNPAC to itself.
3.	NPAC	1. The NPAC SMS sends the M-DELETE in CMIP (or PBDD – NpbDeleteDownload in XML) for the Number Pool Block object.	SP	2. Verify you receive the Request for numberPoolBlock object and issue an M-DELETE Response in CMIP (or DNLR – DownloadReply in XML) numberPoolBlock back to the NPAC SMS. 3. When the NPAC SMS receives the response from your LSMS, the NPAC SMS sets the following time stamps to the current date and time: • subscriptionModifiedTimeStamp • subscriptionDisconnectCompleteTimeStamp • numberPoolBlockModifiedTimeStamp • numberPoolBlockDisconnectCompleteTimeStamp
4.	NPAC	Once the LSMS has responded successfully: 1. The NPAC SMS issues an M-SET Request subscriptionVersionNPAC to itself, to update the subscriptionVersionStatus to 'old', and set the subscriptionModifiedTimeStamp to the current date and time. 2. The NPAC SMS issues an M-SET Request numberPoolBlockNPAC to itself, to update the	NPAC	1. The NPAC SMS issues an M-SET Response subscriptionVersionNPAC to itself. 2. The NPAC SMS issues an M-SET Response numberPoolBlockNPAC to itself.

		numberPoolBlockStatus to 'old' and set the numberPoolBlockModifiedTimeStamp to the current date and time.		
5.	NPAC	Based on the L-6.0B notification setting; if it is set to anything other than NONE, the NPAC SMS issues an M-EVENT-REPORT subscriptionVersionDonorSP-CustomerDisconnectDate notification in CMIP (or VCDN – SvCustomerDisconnectDateNotification in XML) to the Code Holder SOA for the NPB de-pooled in this request. Otherwise proceed to the next step.	SP	If the SUT L-6.0B notification setting is set to anything other than NONE, the Code Holder SOA issues an M-EVENT-REPORT Confirmation in CMIP (or NOTR – NotificationReply in XML) for the NPB de-pooled in this request.
6.	NPAC	The NPAC SMS issues an M-EVENT-REPORT numberPoolBlockStatusAttributeValueChange in CMIP (or PATN – NpbAttributeValueChangeNotification in XML) updating the numberPoolBlockStatus to 'old' and setting the Failed-SP-List to empty (no SPIDs) to the Block Holder SOA.	SP	The Block Holder SOA issues an M-EVENT-REPORT Confirmation in CMIP (or NOTR – NotificationReply in XML) back to the NPAC SMS.
7.	NPAC	The NPAC SMS issues an M-DELETE serviceProvNPA-NXX-X to itself in order to delete the NPA-NXX-X object from its database.	NPAC	The NPAC SMS issues an M-DELETE Response to itself.
8.	NPAC	The NPAC SMS sends an M-DELETE Request serviceProvNPA-NXX-X in CMIP (or DXDD – NpaNxxDxDeleteDownload in XML) to the SOA under test for this NPA-NXX.	SP	The SOA issues a Response back to the NPAC SMS.
9.	NPAC	The NPAC SMS sends an M-DELETE Request serviceProvNPA-NXX-X in CMIP (or DXDD – NpaNxxDxDeleteDownload in XML) to the LSMS under test.	SP	The LSMS and issues a Response back to the NPAC SMS.
10.	SP	1. The SOA sends an M-DELETE Response in CMIP (or (DNLR - DownloadReply in XML) back to the NPAC SMS to the NPAC SMS indicating the serviceProvNPA-NXX-X object was successfully deleted. 2. The LSMS sends an M-DELETE Response in CMIP (or (DNLR - DownloadReply in XML) to the NPAC SMS indicating the serviceProvNPA-NXX-X object was successfully deleted.	NPAC	1. The NPAC SMS receives the serviceProvNPA-NXX-X Responses from the SOA. 2. The NPAC SMS receives the serviceProvNPA-NXX-X Responses from the LSMS.
11.	NPAC	NPAC Personnel perform an NPA-NXX-X Query on the NPAC SMS.	NPAC	Verify that the NPA-NXX-X does not exist on the NPAC SMS.
12.	SP – Optional	Service Provider Personnel perform an NPA-NXX-X Query to their local systems.	SP	Service Provider verifies that it does not have the NPA-NXX-X on its LSMS, nor its SOA.

13.	SP - Conditional	Service Provider Personnel, perform an NPAC SMS query for the NPA-NXX-X which was used in this Test Case.	SP	Verify that the NPA-NXX-X does not exist on the NPAC SMS.
14.	NPAC	NPAC Personnel query for the Block.	NPAC	Verify that the Number Pool Block has a status of 'old' with an empty Failed-SP-List.
15.	SP – Optional	Service Provider Personnel query for the Number Pool Block on their local system.	SP	Verify that the Number Pool Block was deleted from their SOA and/or LSMS.
16.	SP - Conditional	Service Provider Personnel, perform an NPAC SMS query for the Block which was used in this Test Case.	SP	Verify that the Number Pool Block does not exist on the NPAC SMS.
17.	NPAC	NPAC Personnel query for pooled Subscription Versions within the 1K Block that was deleted in this Test Case.	NPAC	Verify that the pooled Subscription Versions have a status of 'old' with an empty Failed-SP-List.
18.	SP - Conditional	Service Provider Personnel, perform an NPAC SMS query for pooled Subscription Versions within the 1K Block that were deleted in this Test Case.	SP	Verify that the pooled Subscription Versions do not exist on the NPAC SMS.

A. TEST IDENTITY

Test Case Number:	**3.3.5**	**SUT Priority:**	**SOA LTI**	N/A
			SOA	C
			LSMS	O
Objective:	NPAC OP GUI - NPAC Personnel delete NPA-NXX-X Information to simulated LSMSs – all systems completely fail the request) – Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-137.4 (row 15), RR3-138.2 (row 15), RR3-174, RR3-177, RR5-107, RR5-108, RR5-109, RR5-110, RR3-107
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.4.4.23Number Pool Block De-Pool by NPAC SMS B.4.4.26 Number Pool Block De-Pool Broadcast to Local SMS Failure

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify that the NPA-NXX-X and subordinate Number Pool Block (with an 'active' status and empty Failed-SP-List) and pooled Subscription Versions exist for the Number Pool Block to be de-pooled. 2. Verify that there are no 'pending-like with active' Subscription Versions and no 'pending' PTO Subscription Versions for the TNs in the Number Pool Block. 3. Have at least 3 LSMSs configured to accept this download. Use simulators to create the failure scenario. 4. Verify that the SOA Origination Indicator is set to TRUE for the Number Pool Block.
Prerequisite SP Setup:	1. Take all LSMSs down, so that they will fail the broadcast. 2.

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 to delete NPA-NXX-X Information when the NPA-NXX-X Information, and subordinate Number Pool Block (with an 'active' status and empty Failed-SP-List) and pooled Subscription Versions exist on the NPAC SMS.	NPAC	The NPAC SMS verifies that for the Subscription Versions that exist respective to this NPA-NXX-X Information: 1. There are not any Subscription Versions with a status of 'pending', 'conflict', 'cancel-pending', or 'failed' where the Old Service Provider is the same as the NPA-NXX-X holder SPID 2. The current active Subscription Versions have a LNP Type of POOL. 3. There are not any Port-to-Original requests where the New Service Provider is equal to the NPA-NXX-X Holder SPID. 4. There are not any Subscription Versions with a status of sending as a result of a disconnect request.
2.	NPAC	The NPAC SMS issues the following messages to itself: 1. M-SET Request numberPoolBlockNPAC to set the status of the Number Pool	NPAC	1. The NPAC SMS responds to the M-SET numberPoolBlockNPAC to itself. 2. The NPAC SMS responds to the M-SET subscriptionVersionNPAC to itself.

		Block to sending as well as set the numberPoolBlockBroadcastTimeStamp to the current date and time. 2. M-SET Request subscriptionVersionNPAC to set the status of the Subscription Versions (with LNP Type set to 'POOL') within the 1K Block to sending as well as set the subscriptionVersionModifiedTimeStamp to the current date and time.		
3.	NPAC	1. The NPAC SMS issues an M-DELETE Request numberPoolBlock in CMIP (or PBDD – NpbDeleteDownload in XML) to all LSMSs in the region that are accepting downloads for the respective NPA-NXX.	NPAC	1. The LSMSs in the region that are accepting downloads for the respective NPA-NXX are not connected to the NPAC SMS, do not receive the broadcast from the NPAC SMS, and as a result do not issue a response to the NPAC. 2. The NPAC waits for a response from the three LSMSs that have not responded. 3. The NPAC SMS retries each LSMS that has not responded successfully. 4. None of the LSMSs that are configured to accept downloads for this NPA-NXX) respond successfully to the NPAC request.
4.	NPAC	After all retries have been exhausted, the NPAC SMS issues an M-SET Request subscriptionVersionNPAC to itself. The following steps are performed: 1. The Subscription Version status for Subscription Versions of LNP Type, 'Pool' is updated to 'active'. 2. The subscriptionFailedSP-List is updated to reflect all SPIDs that did not respond successfully (the LSMSs that are configured to accept downloads for this NPA-NXX). 3. The subscriptionModifiedTimeStamp is set to the current date and time.	NPAC	The NPAC SMS issues an M-SET Response to itself.
5.	NPAC	The NPAC SMS issues an M-SET Request numberPoolBlockNPAC to itself. The following steps are performed: 1. The numberPoolBlock status is set to 'active'. 2. The numberPoolBlockFailedSP-List is updated to reflect all SPIDs that did not respond successfully (the LSMSs that are configured to accept downloads for this NPA-NXX).	NPAC	The NPAC SMS issues an M-SET Response to itself.

		3. The numberPoolBlockModifiedTimeStamp is also set to the current date and time.		
6.	NPAC	The NPAC SMS will issue an M-EVENT-REPORT numberPoolBlockStatusAttributeValueChange in CMIP (or PATN – NpbAttributeValueChangeNotification in XML) to the Block Holder SOA to set the number pool block status to 'active' with a numberPoolBlockFailedSP-List that reflects the LSMSs that did not respond successfully to the NPAC delete request.	SP	The Block Holder SOA issues an M-EVENT-REPORT Confirmation in CMIP (or NOTR – NotificationReply in XML) back to the NPAC SMS.
7.	NPAC	Using the NPAC OP GUI, NPAC Personnel perform the following queries: 1. For the NPA-NXX-X value in this test case. 2. For the subordinate Number Pool Block to the NPA-NXX-X value in this test case. 3. For the subordinate, pooled Subscription Versions to the NPA-NXX-X value in this test case.	NPAC	Verify the following: 1. The NPA-NXX-X in this test case still exists on the NPAC SMS. 2. The subordinate Number Pool Block to the NPA-NXX-X value in this test case exists (with 'active' status and a Failed-SP-List that includes the LSMSs that did not respond successfully to the NPAC request). 3. The subordinate, pooled Subscription Versions to the NPA-NXX-X value that was resent in this test case exist with a status of 'active' and a Failed-SP-List that includes the LSMSs that did not respond successfully to the NPAC request.
8.	SP - Optional	Block Holder Service Provider Personnel perform the following queries on their local system: 1. For the NPA-NXX-X value that NPAC Personnel attempted to delete in this test case. 2. For the Number Pool Block subordinate to the NPA-NXX-X value that NPAC Personnel attempted to delete in this test case. 3. For the subordinate, pooled Subscription Versions to the NPA-NXX-X value that NPAC Personnel attempted to delete in this test case.	SP	Verify the following: 1. The NPA-NXX-X that NPAC Personnel attempted to delete in this test case exists. 2. The subordinate Number Pool Block to the NPA-NXX-X value that NPAC Personnel attempted to delete in this test case exists with 'active' status on the SOA and a Failed-SP-List that includes the LSMSs that did not respond successfully to the NPAC request. 3. The subordinate, pooled Subscription Versions to the NPA-NXX-X value that NPAC Personnel attempted to delete in this test case exist with a status of 'active' on the SOA and a Failed-SP-List that includes the LSMSs that did not respond successfully to the NPAC request.

9.	SP - Conditional	Service Provider Personnel, perform the following queries on the NPAC SMS: 1. For the NPA-NXX-X value that NPAC Personnel attempted to delete in this test case. 2. For the Number Pool Block subordinate to the NPA-NXX-X value that NPAC Personnel attempted to delete in this test case. 3. For the subordinate, pooled Subscription Versions to the NPA-NXX-X value that NPAC Personnel attempted to delete in this test case.	SP	Verify the following: 1. The NPA-NXX-X that NPAC Personnel attempted to delete in this test case exists on the NPAC SMS. 2. The subordinate Number Pool Block to the NPA-NXX-X value that NPAC Personnel attempted to delete in this test case exists (with 'active' status and a Failed-SP-List that includes the LSMSs that did not respond successfully to the NPAC request) on the NPAC SMS. 3. The subordinate, pooled Subscription Versions to the NPA-NXX-X value that NPAC Personnel attempted to delete in this test case exist on the NPAC SMS with a status of 'active' and a Failed-SP-List that includes the LSMSs that did not respond successfully to the NPAC request.

A. TEST IDENTITY

Test Case Number:	**3.3.6**	**SUT Priority:**	**SOA LTI**	N/A
			SOA	C
			LSMS	R
Objective:	NPAC OP GUI - NPAC Personnel re-send a failed NPA-NXX-X de-pool request (multiple SPIDs on the Failed-SP-List, - resend to only 1 SPID in the Failed-SP-List, the resend is successful to this one system) - Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-137.4 (row 10), RR3-138.2 (row 10), RR3-141.4, RR3-174, RR3-175, RR3-176, RR3-177, RR3-195, RR3-196, RR3-197, RR5-107, RR5-108, RR5-109, RR5-110
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.4.4.29 Number Pool Block De-Pool Resend Broadcast B.4.4.32 Number Pool Block De-Pool Resend Partial Failure Updates

C. PREREQUISITE

Prerequisite Test Cases:	3.3.5 NPAC OP GUI - NPAC Personnel delete NPA-NXX-X Information to simulated LSMSs – all systems completely fail the request) – Success
Prerequisite NPAC Setup:	1. Verify that there is a failed de-pool request that exists on the NPAC SMS with Number Pool Block Status of 'active' and a Failed-SP-List that includes the service provider under test. 2. If 3.3.5 is used as a set-up for this test case, you will need to include the service provider LSMS in the 3.3.5 test scenario. 3. Verify that the SOA Origination Indicator is set to TRUE for the Number Pool Block.
Prerequisite SP Setup:	Verify that that the service provider under test previously failed the NPAC de-pool request and is now configured and connected to the NPAC in such a way that it will successfully process this resend request.

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 take action to resend a failed de-pool request to at least one LSMS SPID that is in the Number Pool Block Failed-SP-List (if an LSMS service provider is under test verify they are included on the failed SP list for resend). 1. The NPAC SMS issues an M-SET Request numberPoolBlockNPAC to itself to set the numberPoolBlockStatus to 'sending' and update the numberPoolBlockModifiedTimeStamp and numberPoolBlockBroadcastTim	NPAC	1. The NPAC SMS issues an M-SET Response numberPoolBlockNPAC to itself. 2. The NPAC SMS issues an M-SET Response subscriptionVersionNPAC to itself.

		eStamp to the current date and time. 2. The NPAC SMS issues an M-SET subscriptionVersionNPAC to itself to set the subscriptionVersionStatus to 'sending' and update the subscriptionModifiedTimeStamp and subscriptionBroadcastTimeStamp for each Subscription Version within the 1K Block with LNP Type set to 'POOL'.		
2.	NPAC	The NPAC SMS issues an M-DELETE Request numberPoolBlock in CMIP (or PBDD – NpbDeleteDownload in XML) to the LSMS that failed the previous request (from Test Case 3.3.5).	SP	The LSMS issues an M-DELETE Response in CMIP (or DNLR – DownloadReply in XML) indicating success.
3.	NPAC	1. Upon the 1st successful response from an LSMS, the NPAC SMS sets the following timestamps to the current date and time: • subscriptionVersionModifiedTimeStamp • numberPoolBlockModifiedTimeStamp 2. After a successful response from all LSMSs the resend request was sent to, the NPAC SMS issues an M-SET subscriptionVersionNPAC to itself and performs the following steps: • Updates the subscriptionVersionStatus to 'old' and updates the subscriptionVersionFailedSP-List to reflect the LSMS Service Provider that the resend request was not sent to. • Set the subscriptionModifiedTimeStamp to the current date and time.	NPAC	The NPAC SMS issues an M-SET Response to itself.
4.	NPAC	The NPAC SMS issues an M-SET numberPoolBlock to itself and performs the following steps: 1. Updates the numberPoolBlockStatus to 'old' and updates the numberPoolBlockFailedSP-List	NPAC	The NPAC SMS issues an M-SET Response to itself.

		to reflect the LSMS Service Provider that the resend request was not sent to. 2. Set the numberPoolBlockModifiedTimeStamp to the current date and time.		
5.	NPAC	The NPAC SMS will issue an M-EVENT-REPORT in CMIP (or PATN – NpbAttributeValueChangeNotification in XML) to the Block Holder SOA to set the numberPoolBlockStatus to 'old' and set the Failed-SP-List to reflect the LSMS Service Provider that the resend request was not sent to.	SP	The Block Holder SOA issues an M-EVENT-REPORT Confirmation in CMIP (or NOTR – NotificationReply in XML) back to the NPAC.
6.	NPAC	Using the NPAC OP GUI, NPAC Personnel perform the following queries: 1. For the NPA-NXX-X value that was resent the failed delete request in this test case. 2. For the subordinate Number Pool Block to the NPA-NXX-X value that was resent in this test case. 3. For the subordinate, pooled Subscription Versions to the NPA-NXX-X value that was resent in this test case.	NPAC	Verify the following: 1. The NPA-NXX-X that was resent in this test case still exists on the NPAC SMS. 2. The subordinate Number Pool Block to the NPA-NXX-X value that was resent in this test case still exists (with 'old' status and a Failed-SP-List that reflects any Service Provider that the resend request was not sent to). 3. The subordinate, pooled Subscription Versions to the NPA-NXX-X value still exist with a status of 'old'. All Subscription Versions with LNP Type set to 'POOL' in the 1K Block should have a Failed-SP-List that reflects any Service Provider that the resend request was not sent to.
7.	NPAC	Using the appropriate mechanism, NPAC Personnel verify that an error message was generated that indicates a Number Pool Block was updated to a status of 'old' with a Failed SP List.	NPAC	Verify the appropriate error message was generated.
8.	SP - Optional	Block Holder Service Provider Personnel perform the following queries on their local system: 1. For the NPA-NXX-X value that NPAC Personnel resent in this test case. 2. For the Number Pool Block subordinate to the NPA-NXX-X value that NPAC Personnel resent in this test case. 3. For the subordinate, pooled Subscription Versions to the NPA-NXX-X value that NPAC Personnel resent in this test case.	SP	Verify the following: 1. The NPA-NXX-X that NPAC Personnel resent in this test case still exists on the SOA. 2. The subordinate Number Pool Block to the NPA-NXX-X value that NPAC Personnel resent in this test case exists on with 'old' status on the SOA and a Failed-SP-List that includes any Service Provider that the resend request was not sent to). 3. For the LSMS that successfully processed the resend request, verify that the Number Pool Block does not exist.

9.	SP - Conditional	Service Provider Personnel, , perform the following queries on the NPAC SMS: 1. For the NPA-NXX-X value that NPAC Personnel resent in this test case. 2. For the Number Pool Block subordinate to the NPA-NXX-X value that NPAC Personnel resent in this test case. 3. For the subordinate, pooled Subscription Versions to the NPA-NXX-X value that NPAC Personnel resent in this test case.	SP	Verify the following: 1. The NPA-NXX-X that NPAC Personnel resent in this test case still exists on the NPAC SMS. 2. The subordinate Number Pool Block to the NPA-NXX-X value that NPAC Personnel resent in this test case exists on with 'old' status on the NPAC SMS and has a Failed-SP-List that includes any Service Provider that the resend request was not sent to. 3. The subordinate, pooled Subscription Versions to the NPA-NXX-X value that NPAC Personnel resent in this test case exists with a status of 'old' on the NPAC SMS and has a Failed-SP-List that reflects any Service Provider that the resend request was not sent to.

A. TEST IDENTITY

Test Case Number:	**3.3.7**	**SUT Priority:**	**SOA LTI**	N/A
			SOA	C
			LSMS	O
Objective:	NPAC OP GUI - NPAC Personnel re-send a partially-failed NPA-NXX-X de-pool request (1 Service Provider is in the Failed-SP-List - resend to the only Service Provider in the Failed-SP-List, the resend is successful to this one system) – Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-137.4 (row 5), RR3-138.2 (row 5), RR3-174, RR3-175, RR3-176, RR3-177, RR3-195, RR3-196, RR3-197, RR5-76, RR5-107, RR5-108, RR5-109, RR5-110
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.4.4.29 Number Pool Block De-Pool Resend Broadcast B.4.4.30 Number Pool Block De-Pool Successful Resend Updates

C. PREREQUISITE

Prerequisite Test Cases:	3.3.6 NPAC OP GUI - NPAC Personnel re-send a failed NPA-NXX-X de-pool request (multiple SPIDs on the Failed-SP-List, - resend to only 1 SPID in the Failed-SP-List, the resend is successful to this one system) - Success
Prerequisite NPAC Setup:	1. Verify that there is a Number Pool Block with a status of 'old' and a Failed SP List that reflects one LSMS that did not successfully process a de-pool request. This Number Pool Block should have a status of 'old' because, it has already been resent once and at least one Service Provider successfully processed the resend request. 2. Verify that the SOA Origination Indicator is set to TRUE for the Number Pool Block. 3. Use LSMS simulators to create the partial failure scenario to be used in this test case, if there is not a Service Provider LSMS to participate.
Prerequisite SP Setup:	Verify that the one LSMS that previously failed the NPAC de-pool request and is currently on the Failed-SP-List is now configured and connected to the NPAC SMS in such a way that it will successfully process this resend request.

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	NPAC	1. Using the NPAC OP GUI, NPAC Personnel take action to resend a failed de-pool request to 1 LSMS Service Provider that is in the Number Pool Block Failed-SP-List. 2. The NPAC SMS issues an M-SET Request numberPoolBlockNPAC to itself to set the numberPoolBlockStatus to 'sending' and update the numberPoolBlockModifiedTime Stamp and numberPoolBlockBroadcastTim	NPAC	1. The NPAC SMS issues an M-SET Response numberPoolBlockNPAC to itself. 2. The NPAC SMS issues an M-SET Response subscriptionVersionNPAC to itself.

		eStamp to the current date and time. 3. The NPAC SMS issues an M-SET subscriptionVersionNPAC to itself to set the subscriptionVersionStatus to 'sending' and update the subscriptionModifiedTimeStamp and subscriptionBroadcastTimeStamp for each Subscription Version within the 1K Block with LNP Type set to 'POOL'.		
2.	NPAC	The NPAC SMS issues an M-DELETE Request numberPoolBlock in CMIP (or PBDD – NpbDeleteDownload in XML) to the LSMS that failed the previous request and is still on the Failed-SP-List results from Test Case 3.3.6.	SP	An LSMS that failed the previous request issues an M-DELETE Response in CMIP (or DNLR – DownloadReply in XML) indicating success.
3.	NPAC	1. Upon the 1st successful response from an LSMS, the NPAC SMS sets the following timestamps to the current date and time: • subscriptionModifiedTimeStamp • subscriptionDisconnectCompleteTimeStamp • numberPoolBlockModifiedTimeStamp • numberPoolBlockDisconnectCompleteTimeStamp 2. After a successful response from all LSMSs the resend request was sent to, the NPAC SMS issues an M-SET subscriptionVersionNPAC to itself and performs the following steps: • Updates the subscriptionVersionStatus to 'old' and updates the subscriptionVersionFailedSP-List to empty – no SPIDs. • Set the subscriptionModifiedTimeStamp to the current date and time.	NPAC	The NPAC SMS issues an M-SET Response to itself.
4.	NPAC	The NPAC SMS issues an M-SET numberPoolBlock to itself and performs the following steps: 1. Updates the numberPoolBlockStatus to 'old' and updates the	NPAC	The NPAC SMS issues an M-SET Response to itself.

		numberPoolBlockFailedSP-List to empty – no SPIDs. 2. Set the numberPoolBlockModifiedTime Stamp to the current date and time.		
5.	NPAC	The NPAC SMS will issue an M-EVENT-REPORT in CMIP (or PATN – NpbAttributeValueChangeNotification in XML) to the Block Holder SOA to set the numberPoolBlockStatus to 'old' and set the Failed-SP-List to empty – no Service Providers.	SP	The Block Holder SOA issues an M-EVENT-REPORT Confirmation in CMIP (or NOTR – NotificationReply in XML) back to the NPAC.
6.	NPAC	The NPAC SMS issues an M-DELETE serviceProvNPA-NXX-X to itself in order to delete the NPA-NXX-X from its local database.	NPAC	The NPAC SMS issues an M-DELETE Response to itself indicating it successfully deleted the NPA-NXX-X object.
7.	NPAC	The NPAC SMS issues an M-DELETE serviceProvNPA-NXX-X in CMIP (or DXDD – NpaNxxDxDeleteDownload in XML) to each SOA and LSMS in the region that are receiving downloads for this NPA-NXX and support the NPA-NXX-X object according to their 'NPAC Customer SOA NPA-NXX-X Indicator' and 'NPAC Customer LSMS NPA-NXX-X Indicator' in their Service Provider Profile.	SP	1. Each SOA in the region that is accepting downloads for this NPA-NXX and supports the NPA-NXX-X object issues an M-DELETE Response in CMIP (or DNLR – DownloadReply in XML) back to the NPAC indicating it successfully deleted the NPA-NXX-X object. 2. Each LSMS in the region that is accepting downloads for this NPA-NXX and supports the NPA-NXX-X object issues an M-DELETE Response in CMIP (or DNLR – DownloadReply in XML) back to the NPAC indicating it successfully deleted the NPA-NXX-X object.
8.	NPAC	Using the NPAC OP GUI, NPAC Personnel perform the following queries: 1. For the NPA-NXX-X value that was resent in this test case. 2. For the subordinate Number Pool Block to the NPA-NXX-X value that was resent in this test case. 3. For the subordinate, pooled Subscription Versions to the NPA-NXX-X value that was resent in this test case.	NPAC	Verify the following: 1. The NPA-NXX-X that was resent in this test case does not exist on the NPAC SMS. 2. The subordinate Number Pool Block to the NPA-NXX-X value that was resent in this test case exists with a status of 'old' and an empty Failed-SP-List. 3. The subordinate, pooled Subscription Versions to the NPA-NXX-X value exist with a status of 'old' and all Subscription Versions with LNP Type set to 'POOL' in the 1K Block have an empty Failed-SP-List.
9.	SP - Optional	Block Holder Service Provider Personnel perform the following queries on their local system: 1. For the NPA-NXX-X value that NPAC Personnel resent in this test case. 2. For the Number Pool Block subordinate to the NPA-NXX-X value that NPAC Personnel resent in this test case. 3.	SP	Verify the following: 1. The NPA-NXX-X that NPAC Personnel resent in this test case no longer exists. 2. The subordinate Number Pool Block to the NPA-NXX-X value that NPAC Personnel resent in this test case exists on the SOA with a status of 'old' and an empty Failed-SP-List. 3.

10.	SP - Conditional	Service Provider Personnel, , perform the following queries on the NPAC SMS: 1. For the NPA-NXX-X value that NPAC Personnel resent in this test case. 2. For the Number Pool Block subordinate to the NPA-NXX-X value that NPAC Personnel resent in this test case. 3. For the subordinate, pooled Subscription Versions to the NPA-NXX-X value that NPAC Personnel resent in this test case.	SP	Verify the following: 1. The NPA-NXX-X that NPAC Personnel resent in this test case does not exist on the NPAC SMS. 2. The subordinate Number Pool Block to the NPA-NXX-X value that NPAC Personnel resent in this test case exist with a status of 'old' and an empty Failed-SP-List on the NPAC SMS. 3. The subordinate, pooled Subscription Versions to the NPA-NXX-X value that NPAC Personnel resent in this test case exist on the NPAC SMS with a status of 'old' and all Subscription Versions with LNP Type set to 'POOL' in the 1K Block have an empty Failed-SP-List.

A. TEST IDENTITY

Test Case Number:	**3.3.8**	***SUT PRIORITY:***	**SOA LTI**	N/A
			SOA	C
			LSMS	C
Objective:	NPAC OP GUI – NPAC Personnel delete an NPA-NXX-X value that has a respective Number Pool Block Create Event scheduled – Success			

B. REFERENCES

NANC Change Order Revision Number:		***CHANGE ORDER NUMBER(S):***	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-112
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.4.3.3 Service Provider NPA-NXX-X Deletion by NPAC SMS Prior to Number Pool Block Existence

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	Verify that the NPA-NXX-X value to be deleted, exist on the NPAC SMS, with respective Number Pool Block Create Event scheduled to run.
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, prior to the NPA-NXX-X Effective Date, submit a request to delete an NPA-NXX-X value that has a respective Number Pool Block Create Event scheduled to run.	NPAC	The NPAC SMS determines that there is a scheduled Number Pool Block Create Event respective to this NPA-NXX-X value – and deletes the event.
2.	NPAC	The NPAC SMS issues an M-DELETE Request serviceProvNPA-NXX-X to itself.	NPAC	The NPAC SMS issues an M-DELETE Response numberPoolBlockNPAC to itself.
3.	NPAC	1. The NPAC SMS issues an M-DELETE serviceProvNPA-NXX-X in CMIP (or DXDD – NpaNxxDxDeleteDownload in XML) to each SOA in the region that support the NPA-NXX-X object according to their 'NPAC Customer SOA NPA-NXX-X Indicator' in their Service Provider Profile on the NPAC SMS and are accepting downloads for this respective NPA-NXX. 2. The NPAC SMS issues an M-DELETE serviceProvNPA-NXX-X in CMIP (or DXDD – NpaNxxDxDeleteDownload in	SP	1. Each SOA in the region that is accepting downloads for this NPA-NXX, and supports the NPA-NXX-X object according to their Service Provider Profile, issues an M-DELETE Response in CMIP (or DNLR – DownloadReply in XML) back to the NPAC SMS indicating the object was successfully deleted. 2. Each LSMS in the region that is accepting downloads for this NPA-NXX, and supports the NPA-NXX-X object according to their Service Provider Profile, issues an M-DELETE Response in CMIP (or DNLR – DownloadReply in XML) back to the NPAC SMS indicating the object was successfully deleted.

		XML) to each LSMS in the region that support the NPA-NXX-X object according to their 'NPAC Customer LSMS NPA-NXX-X Indicator' in their Service Provider Profile on the NPAC SMS and are accepting downloads for this respective NPA-NXX.		
4.	NPAC	NPAC Personnel perform an NPA-NXX-X Query on the NPAC SMS for the NPA-NXX-X that was deleted during this Test Case.	NPAC	Verify that the NPA-NXX-X and the Block Create Event was deleted from the NPAC SMS.
5.	SP – Optional	Service Provider Personnel query their local system for the NPA-NXX-X value that was deleted in this Test Case.	SP	Verify that the NPA-NXX-X that was deleted in this Test Case was deleted from their respective system that supports the NPA-NXX-X object.
6.	SP – Conditional	Service Provider Personnel, perform an NPAC SMS query for the NPA-NXX-X value that was deleted in this Test Case.	SP	Verify that the NPA-NXX-X that was deleted in this Test Case was deleted from the NPAC SMS.

10.2.4 Query NPA-NXX-X Information Test Cases:

A. TEST IDENTITY

Test Case Number:	**3.4.1**	***SUT PRIORITY:***	**SOA LTI**	N/A
			SOA	C
			LSMS	N/A
Objective:	SOA - Service Provider Personnel send a Query NPA-NXX-X Information request over the Interface by specifying an NPA-NXX-X-ID - Success			

B. REFERENCES

NANC Change Order Revision Number:		***CHANGE ORDER NUMBER(S):***	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-113, RR3-114
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.4.3.4 Service Provider NPA-NXX-X Query by SOA or LSMS

C. PREREQUISITE

Prerequisite Test Cases:	3.1.1 NPAC OP GUI - NPAC Personnel create NPA-NXX-X Information, where the Block Holder SPID is the same as the Code Holder SPID and the NPAC SMS schedules the Number Pool Block create, and the NPAC SMS activates upon scheduled date and time.- Success Success
Prerequisite NPAC Setup:	Verify that an NPA-NXX-X exists for the NPA-NXX-X ID that will be specified in this Test Case.
Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	1. Service Provider Personnel using their SOA system, submit an NPA-NXX-X Query to the NPAC specifying an NPA-NXX-X-ID for which they are not the Block Holder. 2. SOA issues an M-GET Request serviceProvNPA-NXX-X in CMIP (or DXQQ – NpaNxxDxQueryRequest in XML) for a single serviceProvNPA-NXX-X object by serviceProvNPA-NXX-X-ID to the NPAC.	NPAC	The NPAC SMS receives the Request from the SOA.
2.	NPAC	The NPAC SMS finds the specified serviceProvNPA-NXX-X object that matches the input criteria, and issues an M-GET Response serviceProvNPA-NXX-X in CMIP (or DXQR – NpaNxxDxQueryReply	SP	SOA system receives the Response serviceProvNPA-NXX-X for the NPA-NXX-X query it initiated.

		in XML) for the single serviceProvNPA-NXX-X object.		
3.	SP	Service Provider Personnel view the NPA-NXX-X that the NPAC SMS returned and verify the following NPA-NXX-X data attributes are provided: • **N**PA-NXX-X-ID • NPAC Customer ID (NPA-NXX-X Holder SPID) • NPA-NXX-X • NPA-NXX-X Effective Date • Creation Time Stamp • Last Modified Time Stamp • Download Reason	SP	All attributes are returned to the SOA.

A. TEST IDENTITY

Test Case Number:	**3.4.3**	***SUT PRIORITY:***	**SOA LTI**	N/A
			SOA	N/A
			LSMS	C
Objective:	LSMS - Service Provider Personnel send a Query NPA-NXX-X Information request over the Interface by specifying an NPA-NXX-X-ID - Success			

B. REFERENCES

NANC Change Order Revision Number:		***CHANGE ORDER NUMBER(S):***	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-113, RR3-114
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.4.3.4 Service Provider NPA-NXX-X Query by SOA or LSMS

C. PREREQUISITE

Prerequisite Test Cases:	3.1.1 NPAC OP GUI - NPAC Personnel create NPA-NXX-X Information, where the Block Holder SPID is the same as the Code Holder SPID and the NPAC SMS schedules the Number Pool Block create, and the NPAC SMS activates upon scheduled date and time.- Success Success
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	1. Service Provider Personnel, using their LSMS system, submit an NPA-NXX-X Query to the NPAC specifying an NPA-NXX-X-ID for which they are not the Block Holder. 2. LSMS issues an M-GET Request serviceProvNPA-NXX-X in CMIP (or DXQQ – NpaNxxDxQueryRequest in XML) for a single serviceProvNPA-NXX-X object by serviceProvNPA-NXX-X-ID for the specified object.	SP	The NPAC SMS receives the Request from the LSMS.
2.	NPAC	The NPAC SMS finds the specified serviceProvNPA-NXX-X object that matches the input criteria, and issues an M-GET Response serviceProvNPA-NXX-X in CMIP (or DXQR – NpaNxxDxQueryReply in XML) for the single serviceProvNPA-NXX-X object.	SP	LSMS system receives the Response serviceProvNPA-NXX-X for the NPA-NXX-X query it initiated.
3.	SP	Service Provider Personnel view the NPA-NXX-X that the NPAC SMS	SP	All attributes are returned to the LSMS.

		returned and verify the following NPA-NXX-X data attributes are provided: • NPA-NXX-X-ID • NPAC Customer ID (NPA-NXX-X Holder SPID) • NPA-NXX-X • NPA-NXX-X Effective Date • Creation Time Stamp • Last Modified Time Stamp • Download Reason		

A. TEST IDENTITY

Test Case Number:	**3.4.4**	***SUT PRIORITY:***	**SOA LTI**	N/A
			SOA	C
			LSMS	N/A
Objective:	SOA - Service Provider Personnel send a Query NPA-NXX-X Information request over the Interface, specifying an attribute that will return many objects – Success			

B. REFERENCES

NANC Change Order Revision Number:		***CHANGE ORDER NUMBER(S):***	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-113, RR3-114
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.4.3.4 Service Provider NPA-NXX-X Query by SOA or LSMS

C. PREREQUISITE

Prerequisite Test Cases:	3.1.1 NPAC OP GUI - NPAC Personnel create NPA-NXX-X Information, where the Block Holder SPID is the same as the Code Holder SPID and the NPAC SMS schedules the Number Pool Block create, and the NPAC SMS activates upon scheduled date and time.- Success Success
Prerequisite NPAC Setup:	If the region and the SP under test support PLRN, you may specify criteria that include NPA-NXX-Xs that use a PLRN value. In this case, verify that the SUT is included in the "PLRN Accepted SPID List" in their service provider profile so that they will receive a query reply that includes PLRN NPA-NXX-Xs. If a SPID is not included on the "PLRN Accepted SPID List" the NPAC will not receive any PLRN information.
Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	1. Service Provider Personnel, using their SOA system, submit an NPA-NXX-X Query to the NPAC by specifying an attribute that will return multiple NPA-NXX-Xs (e.g. SPID, a range of NPA-NXX-Xs). 2. SOA issues a scoped and filtered M-GET Request serviceProvNPA-NXX-X in CMIP (or DXQQ – NpaNxxDxQueryRequest in XML) for more than one serviceProvNPA-NXX-X objects.	SP	The NPAC SMS receives the Request from the SOA.
2.	NPAC	The NPAC SMS finds all the specified serviceProvNPA-NXX-X objects that match the input criteria, and issues an M-GET Response serviceProvNPA-NXX-X linked reply in CMIP (or DXQR –	SP	SOA system receives the Response serviceProvNPA-NXX-X for the NPA-NXX-X query it initiated.

		NpaNxxDxQueryReply in XML), for all the serviceProvNPA-NXX-X objects.		
3.	SP	Service Provider Personnel view the NPA-NXX-X that the NPAC SMS returned and verify the following NPA-NXX-X data attributes are provided for each NPA-NXX-X: • NPA-NXX-X-ID • NPAC Customer ID (NPA-NXX-X Holder SPID) • NPA-NXX-X • NPA-NXX-X Effective Date • Creation Time Stamp • Last Modified Time Stamp • Download Reason	SP	All attributes are returned to the SOA.

A. TEST IDENTITY

Test Case Number:	**3.4.6**	***SUT PRIORITY:***	**SOA LTI**	N/A
			SOA	N/A
			LSMS	C
Objective:	LSMS - Service Provider Personnel send a Query NPA-NXX-X Information request over the Interface, specifying an attribute that will return many objects – Success			

B. REFERENCES

NANC Change Order Revision Number:		***CHANGE ORDER NUMBER(S):***	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-113, RR3-114
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.4.3.4 Service Provider NPA-NXX-X Query by SOA or LSMS

C. PREREQUISITE

Prerequisite Test Cases:	3.1.1 NPAC OP GUI - NPAC Personnel create NPA-NXX-X Information, where the Block Holder SPID is the same as the Code Holder SPID and the NPAC SMS schedules the Number Pool Block create, and the NPAC SMS activates upon scheduled date and time.- Success Success
Prerequisite NPAC Setup:	If the region and the SP under test support PLRN, you may specify criteria that include NPA-NXX-Xs that use a PLRN value. In this case, verify that the SUT is included in the "PLRN Accepted SPID List" in their service provider profile so that they will receive a query reply that includes PLRN NPA-NXX-Xs. If a SPID is not included on the "PLRN Accepted SPID List" the NPAC will not receive any PLRN information.
Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	1. Service Provider Personnel, using their LSMS system, submit an NPA-NXX-X Query to the NPAC by specifying an attribute that will return multiple NPA-NXX-Xs (e.g., SPID, a range of NPA-NXX-Xs). 2. LSMS issues a scoped and filtered M-GET Request serviceProvNPA-NXX-X in CMIP (or DXQQ – NpaNxxDxQueryRequest in XML) for more than one serviceProvNPA-NXX-X objects.	NPAC	The NPAC SMS receives the Request from the SOA.
2.	NPAC	The NPAC SMS finds all the specified serviceProvNPA-NXX-X objects that match the input criteria, and issues an M-GET Response serviceProvNPA-NXX-X linked reply in CMIP (or DXQR –	SP	LSMS system receives the Response serviceProvNPA-NXX-X for the NPA-NXX-X query it initiated.

		NpaNxxDxQueryReply in XML), for all the serviceProvNPA-NXX-X objects.		
3.	SP	Service Provider Personnel view the NPA-NXX-X that the NPAC SMS returned and verify the following NPA-NXX-X data attributes are provided for each NPA-NXX-X: • NPA-NXX-X-ID • NPAC Customer ID (NPA-NXX-X Holder SPID) • NPA-NXX-X • NPA-NXX-X Effective Date • Creation Time Stamp • Last Modified Time Stamp • Download Reason	SP	All attributes are returned to the LSMS.

A. TEST IDENTITY

Test Case Number:	**3.4.7**	***SUT PRIORITY:***	**SOA LTI**	N/A
			SOA	C
			LSMS	N/A
Objective:	SOA - Service Provider Personnel send a Query NPA-NXX-X Information request over the Interface when the SOA NPA-NXX-X Indicator is set to 'Off' - Success			

B. REFERENCES

NANC Change Order Revision Number:		***CHANGE ORDER NUMBER(S):***	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-113, RR3-114
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.4.3.4 Service Provider NPA-NXX-X Query by SOA or LSMS

C. PREREQUISITE

Prerequisite Test Cases:	3.1.1NPAC OP GUI - NPAC Personnel create NPA-NXX-X Information, where the Block Holder SPID is the same as the Code Holder SPID and the NPAC SMS schedules the Number Pool Block create, and the NPAC SMS activates upon scheduled date and time.- Success
Prerequisite NPAC Setup:	Verify that for the SOA sending the NPA-NXX-X Query, their SOA NPA-NXX-X Indicator is set to FALSE in their Service Provider Profile.
Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	1. Service Provider Personnel, using the SOA system, submit an NPA-NXX-X Query to the NPAC by specifying a single NPA-NXX-X Value. 2. SOA issues an M-GET Request serviceProvNPA-NXX-X in CMIP (or DXQQ – NpaNxxDxQueryRequest in XML) for a single serviceProvNPA-NXX-X object by serviceProvNPA-NXX-X value to the NPAC.	NPAC	The NPAC SMS receives the Request from the SOA.
2.	NPAC	The NPAC SMS finds the specified serviceProvNPA-NXX-X object that matches the input criteria, and issues an M-GET Response serviceProvNPA-NXX-X in CMIP (or DXQR – NpaNxxDxQueryReply in XML) for the serviceProvNPA-NXX-X object.	SP	SOA system receives the Response serviceProvNPA-NXX-X for the NPA-NXX-X query it initiated.
3.	SP	Service Provider Personnel view the NPA-NXX-Xs that the NPAC SMS returned and verify the following	SP	All attributes are returned to the SOA.

		NPA-NXX-X data attributes are provided: • NPA-NXX-X-ID • NPAC Customer ID (NPA-NXX-X Holder SPID) • NPA-NXX-X • NPA-NXX-X Effective Date • Creation Time Stamp • Last Modified Time Stamp • Download Reason		

A. TEST IDENTITY

Test Case Number:	**3.4.8**	***SUT PRIORITY:***	**SOA LTI**	N/A
			SOA	N/A
			LSMS	C
Objective:	LSMS - Service Provider Personnel send a Query NPA-NXX-X Information request over the Interface when the LSMS NPA-NXX-X Indicator is set to 'Off' - Success			

B. REFERENCES

NANC Change Order Revision Number:		***CHANGE ORDER NUMBER(S):***	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-113, RR3-114
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.4.3.4 Service Provider NPA-NXX-X Query by SOA or LSMS

C. PREREQUISITE

Prerequisite Test Cases:	3.1.1 NPAC OP GUI - NPAC Personnel create NPA-NXX-X Information, where the Block Holder SPID is the same as the Code Holder SPID and the NPAC SMS schedules the Number Pool Block create, and the NPAC SMS activates upon scheduled date and time.- Success Success
Prerequisite NPAC Setup:	Verify that for the LSMS sending the NPA-NXX-X Query, their LSMS NPA-NXX-X Indicator is set to FALSE in their Service Provider Profile.
Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	1. Service Provider Personnel, using the LSMS system, submit an NPA-NXX-X Query to the NPAC by specifying a single NPA-NXX-X Value. 2. LSMS issues an M-GET Request serviceProvNPA-NXX-X in CMIP (or DXQQ – NpaNxxDxQueryRequest in XML) for a single serviceProvNPA-NXX-X object.	NPAC	The NPAC SMS receives the Request from the LSMS.
2.	NPAC	The NPAC SMS finds the specified serviceProvNPA-NXX-X object that matches the input criteria, and issues an M-GET Response serviceProvNPA-NXX-X in CMIP (or DXQR – NpaNxxDxQueryReply in XML) for the serviceProvNPA-NXX-X object.	SP	LSMS system receives the Response serviceProvNPA-NXX-X for the NPA-NXX-X query it initiated.
3.	SP	Service Provider Personnel view the NPA-NXX-Xs that the NPAC SMS returned and verify the following NPA-NXX-X data attributes are provided:	SP	All attributes are returned to the LSMS.

		• NPA-NXX-X-ID • NPAC Customer ID (NPA-NXX-X Holder SPID) • NPA-NXX-X • NPA-NXX-X Effective Date • Creation Time Stamp • Last Modified Time Stamp • Download Reason		

A. TEST IDENTITY

Test Case Number:	**3.4.9**	***SUT PRIORITY:***	**SOA LTI**	N/A
			SOA	C
			LSMS	N/A
Objective:	SOA - Service Provider Personnel send a Query NPA-NXX-X Information request over the Interface when a filter for the respective NPA-NXX is set for this Service Provider at the NPAC - Success			

B. REFERENCES

NANC Change Order Revision Number:		***CHANGE ORDER NUMBER(S):***	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-113, RR3-114
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.4.3.4 Service Provider NPA-NXX-X Query by SOA or LSMS

C. PREREQUISITE

Prerequisite Test Cases:	3.1.1 NPAC OP GUI - NPAC Personnel create NPA-NXX-X Information, where the Block Holder SPID is the same as the Code Holder SPID and the NPAC SMS schedules the Number Pool Block create, and the NPAC SMS activates upon scheduled date and time.- Success Success
Prerequisite NPAC Setup:	Verify that for the Service Provider sending the NPA-NXX-X Query, an NPA-NXX filter exists at the NPAC for the respective NPA-NXX-X value they are going to query for, such that Service Provider would not receive downloads for this value.
Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	1. Service Provider Personnel, using the SOA system, submit an NPA-NXX-X Query to the NPAC by specifying a single NPA-NXX-X Value, when a respective NPA-NXX filter for this Service Provider exists at the NPAC. 2. SOA issues an M-GET Request serviceProvNPA-NXX-X in CMIP (or DXQQ – NpaNxxDxQueryRequest in XML) for a single serviceProvNPA-NXX-X object.	NPAC	The NPAC SMS receives the Request from the SOA.
2.	NPAC	The NPAC SMS finds the specified serviceProvNPA-NXX-X object that matches the input criteria, and issues an M-GET Response serviceProvNPA-NXX-X in CMIP (or DXQR – NpaNxxDxQueryReply in XML) for the serviceProvNPA-NXX-X object.	SP	SOA system receives the Response serviceProvNPA-NXX-X for the NPA-NXX-X query it initiated.

3.	SP	Service Provider Personnel view the NPA-NXX-Xs that the NPAC SMS returned and verify the following NPA-NXX-X data attributes are provided: • NPA-NXX-X-ID • NPAC Customer ID (NPA-NXX-X Holder SPID) • NPA-NXX-X • NPA-NXX-X Effective Date • Creation Time Stamp • Last Modified Time Stamp • Download Reason	SP	All attributes are returned to the SOA.

A. TEST IDENTITY

Test Case Number:	**3.4.10**	***SUT PRIORITY:***	**SOA LTI**	N/A
			SOA	N/A
			EDR LSMS	C
Objective:	LSMS - Service Provider Personnel send a Query NPA-NXX-X Information request over the Interface when a filter for the respective NPA-NXX is set for this Service Provider at the NPAC - Success			

B. REFERENCES

NANC Change Order Revision Number:		***CHANGE ORDER NUMBER(S):***	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-113, RR3-114
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.4.3.4 Service Provider NPA-NXX-X Query by SOA or LSMS

C. PREREQUISITE

Prerequisite Test Cases:	3.1.1 NPAC OP GUI - NPAC Personnel create NPA-NXX-X Information, where the Block Holder SPID is the same as the Code Holder SPID and the NPAC SMS schedules the Number Pool Block create, and the NPAC SMS activates upon scheduled date and time.- Success Success
Prerequisite NPAC Setup:	Verify that for the Service Provider sending the NPA-NXX-X Query, an NPA-NXX filter exists at the NPAC for the respective NPA-NXX-X value they are going to query for, such that Service Provider would not receive downloads for this value.
Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	1. Service Provider Personnel using the LSMS system submit an NPA-NXX-X Query to the NPAC by specifying a single NPA-NXX-X Value, when a respective NPA-NXX filter for this Service Provider exists at the NPAC. 2. LSMS issues an M-GET Request serviceProvNPA-NXX-X in CMIP (or DXQQ – NpaNxxDxQueryRequest in XML) for a single serviceProvNPA-NXX-X object.	NPAC	The NPAC SMS receives the Request from the LSMS.
2.	NPAC	The NPAC SMS finds the specified serviceProvNPA-NXX-X object that matches the input criteria, and issues an M-GET Response serviceProvNPA-NXX-X in CMIP (or DXQR – NpaNxxDxQueryReply in XML) for the serviceProvNPA-NXX-X object.	SP	LSMS system receives the Response serviceProvNPA-NXX-X for the NPA-NXX-X query it initiated.

3.	SP	Service Provider Personnel view the NPA-NXX-Xs that the NPAC SMS returned and verify the following NPA-NXX-X data attributes are provided: • NPA-NXX-X-ID • NPAC Customer ID (NPA-NXX-X Holder SPID) • NPA-NXX-X • NPA-NXX-X Effective Date • Creation Time Stamp • Last Modified Time Stamp • Download Reason	SP	All attributes are returned to the LSMS.

10.3 Block Information

10.3.1 Create Block Information Test Cases:

A. TEST IDENTITY

Test Case Number:	**4.1.1**	***SUT PRIORITY:***	**SOA LTI**	N/A
			SOA	C
			LSMS	R
Objective:	SOA - Service Provider Personnel create a non-contaminated Number Pool Block – Success			

B. REFERENCES

NANC Change Order Revision Number:		***CHANGE ORDER NUMBER(S):***	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-124, RR3-125, RR3-126, RR3-130, RR3-132, RR3-144, RR3-146, RR3-150, RR3-151, RR3-152, RR3-143, RR3-180, RR5-85, RR5-86, RR5-87, RR5-89
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.4.4.1Number Pool Block Create/Activate by SOA B.4.4.3 Number Pool Block Create Broadcast to Local SMS B.4.4.4 Number Pool Block Create: Successful Broadcast

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	Verify that there are no contaminated TNs or 'pending-like' Subscription Versions for the range of TNs in the NPA-NXX-X.
Prerequisite SP Setup:	1. Verify that the NPA-NXX-X exists for the Number Pool Block that Service Provider Personnel will create during this Test Case. 2. Verify that the current date is equal to or greater than the NPA-NXX-X Effective Date. 3. 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 the service provider should indicate any Optional Data elements they support and SV Type data (if they support it) for the number pool block. 4. Configure the SOA under test as the Block Holder SOA. 5. If the region and the SP under test support PLRN, this Block may be created using a PLRN value. In this case, verify that the SUT as well as any other simulated systems are included in the "PLRN Accepted SPID List" in their service provider profile so that these systems will receive notifications/downloads respective to this Block. If a SPID is not included on the "PLRN Accepted SPID List" the NPAC will not send respective notifications/downloads to that system even if they are accepting downloads for this NPA-NXX.

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result

1.	SP	Using the SOA, Service Provider Personnel, submit a M-ACTION numberPoolBlock-Create request in CMIP (or PBCQ – NpbCreateRequest in XML) to the NPAC SMS to create a Number Pool Block including the following attributes: • numberPoolBlockNPA-NXX-X • numberPoolBlockSPID • numberPoolBlockLRN • numberPoolBlockSVType – if supported by the Service Provider SOA • numberPoolBlockCLASS-DPC • numberPoolBlockCLASS-SSN • numberPoolBlockCNAM-DPC • numberPoolBlockCNAM-SSN • numberPoolBlockISVM-DPC • numberPoolBlockISVM-SSN • numberPoolBlockLIDB-DPC • numberPoolBlockLIDB-SSN • numberPoolBlockWSMSC-DPC – if supported by the Service Provider SOA • numberPoolBlockWSMSC-SSN – if supported by the Service Provider SOA • numberPoolBlockOptionalData – if supported by the Service Provider SOA	NPAC	1. The NPAC SMS receives the Request. 2. The NPAC SMS verifies the following information: • The requesting SOA is the NPA-NXX-X Holder SOA. • The serviceProvNPA-NXX-X object exists for the NPA-NXX-X (respective NPA-NXX-X information). • All attributes specified are valid. • A numberPoolBlockNPAC object does not already exist for the NPA-NXX-X (a duplicate Number Pool Block does not already exist). • The current date is greater than or equal to the NPA-NXX-X-EffectiveTimeStamp. • There are not any 'pending-like, no-active' Subscription Version objects within the given TN range.
2.	NPAC	1. The NPAC SMS issues an M-CREATE Request numberPoolBlockNPAC to itself. 2. The NPAC SMS sets the numberPoolBlockSOA-Origination Indicator to TRUE. 3. The NPAC SMS sets the numberPoolBlockStatus to 'sending'. 4. The NPAC SMS sets the following timestamps to the current date and time: • numberPoolBlockCreation TimeStamp • numberPoolBlockActivatio nTimeStamp • numberPoolBlockBroadcas tTimeStamp • numberPoolBlockModified TimeStamp	NPAC	The NPAC SMS issues an M-CREATE Response numberPoolBlockNPAC to itself.
3.	NPAC	1. The NPAC SMS issues an M-CREATE Request	NPAC	The NPAC SMS issues an M-CREATE Response subscriptionVersionNPAC to itself.

		subscriptionVersionNPAC to itself. 2. The NPAC SMS sets the LNP Type to 'POOL' for the Subscription Versions it creates within the 1K Block. 3. The NPAC SMS sets the Subscription Versions to 'sending'. 4. The NPAC SMS sets the following timestamps to the current date and time for the Subscription Versions: • subscriptionModifiedTimeStamp • subscriptionActivationTimeStamp • subscriptionBroadcastTimeStamp • subscriptionCreationTimeStamp		
4.	NPAC	The NPAC SMS issues an M-ACTION Response numberPoolBlock-Create in CMIP (or PBCR – NpbCreateReply in XML) to the respective NPA-NXX-X Holder SOA that initiated the Number Pool Block Create request.	SP	The NPA-NXX-X Holder SOA receives the Response from the NPAC SMS.
5.	NPAC	The NPAC SMS issues an M-EVENT-REPORT objectCreation in CMIP (or POCN – NpbObjectCreationNotification in XML) for the numberPoolBlockNPAC to the NPA-NXX-X Holder SOA. The following attributes are sent in the objectCreation notification: • numberPoolBlockId • numberPoolBlockSOA-Origination • numberPoolBlockCreationTimeStamp • numberPoolBlockNPA-NXX-X • numberPoolBlockSPID • numberPoolBlockLRN • numberPoolBlockCLASS-DPC • numberPoolBlockCLASS-SSN • numberPoolBlockCNAM-DPC • numberPoolBlockCNAM-SSN • numberPoolBlockISVM-DPC • numberPoolBlockISVM-SSN • numberPoolBlockLIDB-DPC • numberPoolBlockLIDB-SSN	SP	The NPA-NXX-X Holder SOA issues an M-EVENT-REPORT Confirmation in CMIP (or NOTR – NotificationReply in XML) to the NPAC SMS.

		• numberPoolBlockWSMSC-DPC – if supported by the Service Provider SOA • numberPoolBlockWSMSC-SSN – if supported by the Service Provider SOA • numberPoolBlockSVType – if supported by the Service Provider SOA • numberPoolBlockOptionalData – if supported by the Service		
6.	NPAC	1. The NPAC SMS issues an M-CREATE Request numberPoolBlock in CMIP (or PBCD – NpbCreateDownload in XML) to the LSMS.	SP	1. The LSMS returns an M-CREATE Response numberPoolBlock in CMIP (or DNLR – DownloadReply in XML). 2.
7.	NPAC	Upon the first successful response from an LSMS, the NPAC SMS sets the following timestamps to the current date and time: • numberPoolBlockActivationCompleteTimeStamp • subscriptionActivationCompleteTimeStamp • numberPoolBlockModifiedTimeStamp • subscriptionModifiedTimeStamp	NPAC	The NPAC SMS responds to each of the M-EVENT-REPORT subscriptionVersionLocalSMS-CreateResults as it receives these notifications with M-EVENT-REPORT Confirmations.
8.	NPAC	1. The NPAC SMS issues M-SET Request subscriptionVersionNPAC to itself. 2. The NPAC SMS updates the following attributes for each Subscription Version within the 1K Block with LNP Type set to 'POOL': • sets the subscriptionVersionStatus to 'active'. • sets the Subscription Version Failed SP List to empty. • sets the subscriptionModifiedTimeStamp to the current date and time. 3. The NPAC SMS issues an M-SET Request numberPoolBlockNPAC to itself to update the following attributes: • sets the numberPoolBlockStatus to 'active'.	NPAC	1. The NPAC SMS issues an M-SET subscriptionVersionNPAC Response to itself. 2. The NPAC SMS issues an M-SET numberPoolBlockNPAC Response to itself.

		• sets the Number Pool Block Failed SP List to empty. • sets the numberPoolBlockModified TimeStamp to the current date and time.		
9.	NPAC	The NPAC SMS determines the SOA Origination Indicator is set to TRUE and issues an M-EVENT-REPORT numberPoolBlockStatusAttributeValueChange in CMIP (or PATN – NpbAttributeValueChangeNotification in XML) to the NPA-NXX-X Holder SOA to set the Number Pool Block status to 'active' and the Failed SP List to empty.	SP	The NPA-NXX-X Holder SOA issues an M-EVENT-REPORT Confirmation in CMIP (or NOTR – NotificationReply in XML) back to the NPAC SMS.
10.	NPAC	NPAC Personnel perform a query for the Number Pool Block and the 1K Block of Subscription Versions with LNP Type set to 'POOL' that Service Provider Personnel created during this Test Case.	NPAC	1. Verify the Number Pool Block exists with status of 'active' and an empty Failed SP List. 2. Verify the 1K Block of Subscription Versions exist with LNP Type set to 'POOL', a status of 'active' and an empty Failed SP List.
11.	SP – Optional	Service Provider Personnel perform a local query for the Number Pool Block that Service Provider Personnel created during this Test Case.	SP	1. Verify the Number Pool Block exists with status of 'active' and an empty Failed SP List on the SOA. 2. Verify the Number Pool Block exists on the LSMS. 3.
12.	SP – Conditional	Service Provider Personnel perform an NPAC SMS query for the Number Pool Block and the 1K Block of Subscription Versions with LNP Type set to 'POOL' that Service Provider Personnel created during this Test Case.	SP	1. Verify the Number Pool Block exists on the NPAC SMS with status of 'active' and an empty Failed SP List. 2.
13.	NPAC	NPAC Personnel perform a full audit for the Number Pool Block and respective POOLed Subscription Versions that were created during this test case.	NPAC	Using the Audit Results Log verify that there were no updates issued as a result of performing the audit. If updates were made, the LSMS fails this test case.

A. TEST IDENTITY

Test Case Number:	**4.1.2**	***SUT PRIORITY:***	**SOA LTI**	N/A
			SOA	O
			LSMS	R
Objective:	NPAC OP GUI - NPAC Personnel schedule a Number Pool Block Create for a contaminated Block to be run at a future date, and the NPAC SMS activates upon scheduled date and time – Success **Note:** Per IIS3_4_1aPart2, relevant flow B.4.4.2 "Number Pool Block Create by NPAC SMS" referenced below does not involve XML messaging across the interface.			

B. REFERENCES

NANC Change Order Revision Number:		***CHANGE ORDER NUMBER(S):***	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-75.2, RR5-92
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.4.4.2 Number Pool Block Create by NPAC SMS B.4.4.3 Number Pool Block Create: Broadcast Successful to Local SMS B.4.4.4 Number Pool Block Create: Successful Broadcast

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify that the NPA-NXX-X for the Number Pool Block Create Event to be scheduled exists and the Effective Date has passed. 2. Verify that a respective Number Pool Block Create Event does not yet exist on the NPAC SMS. (In the original NPA-NXX-X create the SOA Origination Flag was set to TRUE but the Service Provider did not submit the Number Pool Block Create and has requested the NPAC to do it on his behalf.) 3. Verify that all possible cases of 'active-like' Subscription Versions exist for the Number Pool Block to be scheduled. 4. Verify that there are not any 'pending-like, no-active' Subscription Versions for the Number Pool Block to be scheduled. 5. If the Service Provider under test does not have an LSMS to certify then use simulators to emulate LSMS behavior.
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 to schedule the Number Pool Block Create for a future date.	NPAC	The NPAC SMS schedules the Number Pool Block Create Event.
2.	NPAC	NPAC Personnel perform a query for the Number Pool Block Create Event that was scheduled during this Test Case.	NPAC	Verify the Number Pool Block Create Event has been scheduled to run on the date and time entered in Row 1 above.

3.	NPAC	The Scheduled Date/Time of the Number Pool Block Create Event is reached.	NPAC	1. On the scheduled date specified in the Number Pool Block Create Event, the NPAC SMS issues an M-ACTION Request numberPoolBlock-Create to itself. 2. The NPAC SMS verifies the following information: • The serviceProvNPA-NXX-X object exists for the NPA-NXX-X (respective NPA-NXX-X information). • All attributes specified are valid. • A numberPoolBlockNPAC object does not already exist for the NPA-NXX-X (a duplicate Number Pool Block does not already exist). • The current date is greater than or equal to the NPA-NXX-X-EffectiveTimeStamp. • There are not any 'pending-like, no-active' Subscription Version objects within the given TN range.
4.	NPAC	1. The NPAC SMS issues an M-CREATE Request numberPoolBlockNPAC to itself. 2. The NPAC SMS sets the numberPoolBlockSOA-Origination Indicator to FALSE. 3. The NPAC SMS sets the numberPoolBlockStatus to 'sending'. 4. The NPAC SMS sets the following timestamps to the current date and time: • numberPoolBlockCreationTimeStamp • numberPoolBlockActivationTimeStamp • numberPoolBlockBroadcastTimeStamp • numberPoolBlockModifiedTimeStamp are set to the current date and time.	NPAC	The NPAC SMS issues an M-CREATE Response numberPoolBlockNPAC to itself.
5.	NPAC	1. For each non-ported TN within the 1K Block, the NPAC SMS issues an M-CREATE Request subscriptionVersionNPAC to itself. 2. The NPAC SMS sets the LNP Type to 'POOL' for the Subscription Versions it creates within the 1K Block. 3. The NPAC SMS sets the Subscription Version to 'sending'. 4. The NPAC SMS sets the following timestamps to the current date and time for the Subscription Versions: • subscriptionModifiedTimeStamp • subscriptionActivationTimeStamp • subscriptionBroadcastTimeStamp • subscriptionCreationTimeStamp	NPAC	The NPAC SMS issues an M-CREATE Response subscriptionVersionNPAC to itself.

6.	NPAC	The NPAC SMS issues an M-ACTION Response numberPoolBlock-Create to itself.		
7.	NPAC	1. The NPAC SMS issues an M-CREATE Request numberPoolBlock in CMIP (or PBCD – NpbCreateDownload in XML) to the LSMSs in the region that are accepting downloads for this NPA-NXX.	SP	1. The LSMSs that are accepting downloads for this NPA-NXX return an M-CREATE Response numberPoolBlock in CMIP (or DNLR – DownloadReply in XML). 2.
8.	NPAC	Upon the first successful response from an LSMS, the NPAC SMS sets the following timestamps to the current date and time: • numberPoolBlockActivationCompleteTimeStamp • subscriptionActivationCompleteTimeStamp • numberPoolBlockModifiedTimeStamp • subscriptionModifiedTimeStamp	NPAC	The NPAC SMS responds to each of the M-EVENT-REPORT subscriptionVersionLocalSMS-CreateResults as it receives these notifications with M-EVENT-REPORT Confirmations.
9.	NPAC	1. The NPAC SMS issues an M-SET Request subscriptionVersionNPAC to itself and updates the following attributes for each Pooled Subscription Version within the 1K Block: • sets the subscriptionVersionStatus to 'active'. • sets the Subscription Version Failed SP List to empty. • sets the subscriptionModifiedTimeStamp to the current date and time. 2. The NPAC SMS issues an M-SET Request numberPoolBlockNPAC to itself and updates the following attributes: • sets the numberPoolBlockStatus to 'active' • sets the Number Pool Block Failed SP List to empty. • sets the numberPoolBlockModifiedTimeStamp to the current date and time.	NPAC	1. The NPAC SMS issues an M-SET subscriptionVersionNPAC Response to itself. 2. The NPAC SMS issues an M-SET numberPoolBlockNPAC Response to itself.
10.	NPAC	The NPAC SMS determines the SOA Origination Indicator is set to FALSE and terminates processing here.		
11.	NPAC	NPAC Personnel perform a query for the Number Pool Block, the 1K Block of Subscription Versions with LNP Type set to 'POOL' that were created during this Test Case, and the 'active-like'	NPAC	1. Verify the Number Pool Block exists with a status of 'active' and an empty Failed SP List. 2. Verify the 1K Block of Subscription Versions exists with LNP Type set to 'POOL', an 'active' status and an empty Failed SP List.

		Subscription Versions that do not have LNP Type set to 'POOL' but are within the 1K Block.		3. Verify that the 'active-like' Subscription Versions do not have LNP Type set to 'POOL' and were not modified when the Number Pool Block was created during this Test Case.
12.	SP – Optional	Service Provider Personnel perform a local query for the Number Pool Block was created during this Test Case.	SP	1. Verify the Number Pool Block exists with a status of 'active' and an empty Failed SP List. 3. For LSMS verify the Number Pool Block exists.
13.	SP – Conditional	Service Provider Personnel perform an NPAC SMS query for the Number Pool Block and the 1K Block of Subscription Versions with LNP Type set to 'POOL' that were created during this Test Case.	SP	1. Verify the Number Pool Block exists with a status of 'active' and an empty Failed SP List on the NPAC SMS. 2. Verify the 1K Block of Subscription Versions exists with LNP Type set to 'POOL', an 'active' status and an empty Failed SP List on the NPAC SMS.
14.	NPAC	NPAC Personnel perform a full audit for the Number Pool Block and respective POOLed Subscription Versions that were created during this test case. Include the 'contaminated' Subscription Versions respective to the Number Pool Block.	NPAC	Using the Audit Results Log verify that there were no updates issued as a result of performing the audit. If updates were made, the LSMS fails this test case.

A. TEST IDENTITY

Test Case Number:	**4.1.3**	***SUT PRIORITY:***	**SOA LTI**	N/A
			SOA	C
			LSMS	O
Objective:	SOA - Service Provider Personnel create a Number Pool Block that already exists. - Error			

B. REFERENCES

NANC Change Order Revision Number:		***CHANGE ORDER NUMBER(S):***	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-129, RR3-131
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.4.4.1 Number Pool Block Create/Activate by SOA

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	
Prerequisite SP Setup:	1. Verify that the NPA-NXX-X exists for the Number Pool Block that Service Provider Personnel will create during this Test Case. 2. Verify that the current date is equal to or greater than the respective NPA-NXX-X Effective Date. 3. Verify that a Number Pool Block with a status other than 'old' with an empty Failed SP List already exists for the NPA-NXX-X that Service Provider Personnel will specify in their Number Pool Block Create Request and make a note of the Block ID.

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	Using the SOA, Service Provider Personnel, submit an M-ACTION numberPoolBlock-Create request in CMIP (or PBCQ – NpbCreateRequest in XML) to the NPAC SMS to create a Number Pool Block**.** The request must include the following attributes: • numberPoolBlockNPA-NXX-X • numberPoolBlockSPID • numberPoolBlockLRN • numberPoolBlockCLASS-DPC • numberPoolBlockCLASS-SSN • numberPoolBlockCNAM-DPC • numberPoolBlockCNAM-SSN • numberPoolBlockISVM-DPC • numberPoolBlockISVM-SSN • numberPoolBlockLIDB-DPC • numberPoolBlockLIDB-SSN	NPAC	1. The NPAC SMS receives the request. 2. The NPAC SMS verifies the following information: • The requesting SOA is the NPA-NXX-X Holder SOA. • The serviceProvNPA-NXX-X object exists for the NPA-NXX-X (respective NPA-NXX-X information). • All attributes specified are valid. • A numberPoolBlockNPAC object already exists for the NPA-NXX-X (a duplicate Number Pool Block with a status of other than 'old' with an empty Failed SP List already exist). **(This violates system requirements.)**

		• numberPoolBlockWSMSC-DPC – if supported by the Service Provider SOA • numberPoolBlockWSMSC-SSN – if supported by the Service Provider SOA		
3.	NPAC	The NPAC SMS rejects the request and issues an M-ACTION Error Response in CMIP (or PBCR – NpbCreateReply in XML) to the NPA-NXX-X Holder SOA indicating the error and further processing is terminated.	SP	The NPA-NXX-X Holder SOA receives the Error Response.
4.	NPAC	NPAC Personnel perform a query for the Number Pool Block and 1K Block of Subscription Versions with LNP Type set to 'POOL' that Service Provider Personnel attempted to create during this Test Case.	NPAC	1. Verify the original Number Pool Block with the original Block ID is the only one that exists on the NPAC SMS and that it has not been modified. 2. Verify the original Subscription Versions with LNP Type set to 'POOL' are the only ones that exist on the NPAC SMS.
5.	SP – Optional	Service Provider Personnel perform a local query for the Number Pool Block that Service Provider Personnel attempted to create during this Test Case.	SP	1. Verify the original Number Pool Block with the original Block ID is the only one that exists on the SOA and/or LSMS and that it has not been modified. 2.
6.	SP – Conditional	Service Provider Personnel perform an NPAC SMS query for the Number Pool Block and 1K Block of Subscription Versions with LNP Type set to 'POOL' that Service Provider Personnel attempted to create during this Test Case.	SP	1. Verify the original Number Pool Block with the original Block ID is the only one that exists on the NPAC SMS and that it has not been modified. 2. Verify the original Subscription Versions with LNP Type set to 'POOL' are the only ones that exist on the NPAC SMS

A. TEST IDENTITY

Test Case Number:	**4.1.4**	***SUT PRIORITY:***	**SOA LTI**	N/A
			SOA	C
			LSMS	O
Objective:	SOA – Service Provider Personnel create a Number Pool Block prior to the NPA-NXX-X Effective Date – Error			

B. REFERENCES

NANC Change Order Revision Number:		***CHANGE ORDER NUMBER(S):***	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-127
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.4.4.1 Number Pool Block Create/Activate by SOA

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify the NPA-NXX-X exists with the SOA Origination Indicator set to TRUE for the Number Pool Block that is to be created during this Test Case. 2. Verify the current date is less than the NPA-NXX-X Effective Date.
Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	Prior to the NPA-NXX-X Effective Date, using the SOA, Service Provider Personnel, submit an M-ACTION numberPoolBlock-Create request in CMIP (or PBCQ – NpbCreateRequest in XML) to the NPAC SMS to create a Number Pool Block**.** The request must include the following attributes: • numberPoolBlockNPA-NXX-X • numberPoolBlockSPID • numberPoolBlockLRN • numberPoolBlockCLASS-DPC • numberPoolBlockCLASS-SSN • numberPoolBlockCNAM-DPC • numberPoolBlockCNAM-SSN • numberPoolBlockISVM-DPC • numberPoolBlockISVM-SSN • numberPoolBlockLIDB-DPC • numberPoolBlockLIDB-SSN • numberPoolBlockWSMSC-DPC – if supported by the Service Provider SOA	NPAC	1. The NPAC SMS receives the request. 2. The NPAC SMS verifies the following information: • The requesting SOA is the NPA-NXX-X Holder SOA. • The serviceProvNPA-NXX-X object exists for the NPA-NXX-X (respective NPA-NXX-X information). • All attributes specified are valid. • A numberPoolBlockNPAC object does not already exist for the NPA-NXX-X (a duplicate Number Pool Block does not already exist). • The scheduled date is prior to the NPA-NXX-X Effective Timestamp. **(This violates system requirements.)**

		• numberPoolBlockWSMSC-SSN – if supported by the Service Provider SOA		
2.	NPAC	The NPAC SMS rejects the request and issues an M-ACTION Error Response in CMIP (or PBCR – NpbCreateReply in XML) indicating the error. Further processing is terminated.	SP	The NPA-NXX-X Holder SOA receives the Error Response.
3.	NPAC	NPAC Personnel perform a query for the Number Pool Block that Service Provider Personnel attempted to create during this Test Case.	NPAC	Verify the Number Pool Block was not created on the NPAC SMS.
4.	SP – Optional	Service Provider Personnel perform a local query for the Number Pool Block that Service Provider Personnel attempted to create during this Test Case.	SP	1. Verify the Number Pool Block does not exist on the SOA and/or LSMS. 2.
5.	SP - Conditional	Service Provider Personnel perform an NPAC SMS query for the Number Pool Block that Service Provider Personnel attempted to create during this Test Case.	SP	1. Verify the Number Pool Block was not created on the NPAC SMS. 2. Verify that the 1K Block of Subscription Versions do not exist on the NPAC SMS.

A. TEST IDENTITY

Test Case Number:	**4.1.5**	***SUT PRIORITY:***	**SOA LTI**	N/A
			SOA	C
			LSMS	O
Objective:	SOA - Service Provider Personnel attempt to create a Number Pool Block when 'pending-like, no-active' Subscription Versions exist – Error			

B. REFERENCES

NANC Change Order Revision Number:		***CHANGE ORDER NUMBER(S):***	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-148
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.4.4.1 Number Pool Block Create/Activate by SOA

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify that the NPA-NXX-X for the Number Pool Block that Service Provider Personnel will attempt to create during this Test Case exists and the Effective Date has passed. 2. Verify that a respective Number Pool Block does not exist on the NPAC SMS. 3. Verify that all-possible cases of 'pending-like, no-active' Subscription Versions exist for the Number Pool Block to be created.
Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	Using the SOA, Service Provider Personnel, submit an M-ACTION numberPoolBlock-Create request in CMIP (or PBCQ – NpbCreateRequest in XML) to the NPAC SMS to create a Number Pool Block**.** The request must include the following attributes: • numberPoolBlockNPA-NXX-X • numberPoolBlockSPID • numberPoolBlockLRN • numberPoolBlockCLASS-DPC • numberPoolBlockCLASS-SSN • numberPoolBlockCNAM-DPC • numberPoolBlockCNAM-SSN • numberPoolBlockISVM-DPC • numberPoolBlockISVM-SSN • numberPoolBlockLIDB-DPC • numberPoolBlockLIDB-SSN	NPAC	1. The NPAC SMS receives the request. 2. The NPAC SMS verifies the following information: • The requesting SOA is the NPA-NXX-X Holder SOA. • The serviceProvNPA-NXX-X object exists for the NPA-NXX-X (respective NPA-NXX-X information). • All attributes specified are valid. • A numberPoolBlockNPAC object does not already exist for the NPA-NXX-X (a duplicate Number Pool Block does not already exist). • The current date is greater than or equal to the NPA-NXX-X-EffectiveTimeStamp. • Determines there are 'pending-like, no-active' Subscription Version objects within the given TN range. **(This violates system requirements.)**

		• numberPoolBlockWSMSC-DPC – if supported by the Service Provider SOA • numberPoolBlockWSMSC-SSN – if supported by the Service Provider SOA		
2.	NPAC	The NPAC SMS issues an M-ACTION Error Response in CMIP (or PBCR – NpbCreateReply in XML) to the NPA-NXX-X Holder SOA indicating the error. Further processing is terminated. (The Number Pool Block is not created on the NPAC SMS.)	SP	The NPA-NXX-X Holder SOA receives the Error Response.
3.	NPAC	NPAC Personnel perform a query for the Number Pool Block that Service Provider Personnel attempted to create during this Test Case.	NPAC	Verify the Number Pool Block was not created on the NPAC SMS
4.	SP – Optional	Service Provider Personnel perform a local query for the Number Pool Block that Service Provider Personnel attempted to create during this Test Case.	SP	1. Verify the Number Pool Block does not exist on the SOA and/or LSMS. 2.
5.	SP – Conditional	Service Provider Personnel perform an NPAC SMS query for the Number Pool Block that Service Provider Personnel attempted to create during this Test Case.	SP	1. Verify the Number Pool Block was not created on the NPAC SMS. 2. Verify that the 1K Block of Subscription Versions do not exist on the NPAC SMS.

A. TEST IDENTITY

Test Case Number:	**4.1.6**	**SUT Priority:**	**SOA LTI**	N/A
			SOA	C
			LSMS	O
Objective:	NPAC OP GUI - NPAC Personnel re-schedule a Number Pool Block Create Event to run immediately. The initial Number Pool Block Create Request that was initiated by the NPA-NXX-X Holder SOA has failed due to 'pending-like, no active' Subscription Versions. – Success **Note:** Per IIS3_4_1aPart2, relevant flow B.4.4.2 "Number Pool Block Create by NPAC SMS" referenced below does not involve XML messaging across the interface.			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-75.2, RR3-76.2, RR3-77, RR3-81.1, RR3-81.2, RR3-82.2, RR5-90, RR5-91, RR5-92, RR5-93, RR5-94, RR5-96, RR5-97
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.4.4.2 Number Pool Block Create by NPAC SMS B.4.4.3 Number Pool Block Create Broadcast Successful to Local SMS B.4.4.4 Number Pool Block Create: Successful Broadcast

C. PREREQUISITE

Prerequisite Test Cases:	4.1.5 SOA - Service Provider Personnel attempt to create a Number Pool Block when 'pending-like, no-active' Subscription Versions exist – Error
Prerequisite NPAC Setup:	1. Verify that the NPA-NXX-X for the Number Pool Block Create Event to be re-scheduled during this Test Case exists and the Effective Date has passed. 2. Cancel the 'pending-like' Subscription Versions within the Number Pool Block to be re-scheduled during this Test Case. 3. 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 the service provider should indicate any Optional Data elements they support and SV Type data (if they support it) for the number pool block.
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 to re-schedule a Number Pool Block Create Event to run immediately. The NPAC SMS issues an M-ACTION numberPoolBlock-Create request to create the Number Pool Block. The following attributes are required: • numberPoolBlockNPA-NXX-X • numberPoolBlockSPID	NPAC	1. The NPAC SMS receives the M-ACTION numberPoolBlock-Create request. 2. The NPAC SMS verifies the following information: • The serviceProvNPA-NXX-X object exists for the NPA-NXX-X (respective NPA-NXX-X information). • All attributes specified are valid. • A numberPoolBlockNPAC object does not already exist for the NPA-NXX-X (a duplicate Number Pool Block does not already exist) or if one exists it has a status of 'old' with an empty Failed SP List.

		• numberPoolBlockLRN • numberPoolBlockSVType – if supported by the Service Provider SOA • numberPoolBlockCLASS-DPC • numberPoolBlockCLASS-SSN • numberPoolBlockCNAM-DPC • numberPoolBlockCNAM-SSN • numberPoolBlockISVM-DPC • numberPoolBlockISVM-SSN • numberPoolBlockLIDB-DPC • numberPoolBlockLIDB-SSN • numberPoolBlockWSMSC-DPC – if supported by the Service Provider SOA • numberPoolBlockWSMSC-SSN – if supported by the Service Provider SOA • numberPoolBlockOptionalData – if supported by the Service Provider SOA		• The current date is greater than or equal to the NPA-NXX-X-EffectiveTimeStamp. • There are not any 'pending-like, no-active' Subscription Version objects within the 1K Block.
2.	NPAC	1. For each non-ported TN within the 1K Block, the NPAC SMS issues an M-CREATE Request numberPoolBlockNPAC to itself. 2. The NPAC SMS sets the numberPoolBlockSOA-Origination Indicator to FALSE. 3. The NPAC SMS sets the numberPoolBlockStatus to 'sending'. 4. The NPAC SMS sets the following timestamps to the current date and time: • numberPoolBlockCreationTimeStamp • numberPoolBlockActivationTimeStamp • numberPoolBlockBroadcastTimeStamp • numberPoolBlockModifiedTimeStamp are set to the current date and time.	NPAC	The NPAC SMS issues an M-CREATE Response numberPoolBlockNPAC to itself.
3.	NPAC	1. The NPAC SMS issues an M-CREATE Request subscriptionVersionNPAC to itself. 2. The NPAC SMS sets the LNP Type to 'POOL' for the Subscription Versions it creates within the 1K Block. 3. The NPAC SMS sets the Subscription Versions to 'sending'.	NPAC	The NPAC SMS issues an M-CREATE Response subscriptionVersionNPAC to itself.

		4. The NPAC SMS sets the following timestamps to the current date and time for the Subscription Versions: • subscriptionModifiedTimeStamp • subscriptionActivationTimeStamp • subscriptionBroadcastTimeStamp • subscriptionCreationTimeStamp		
4.	NPAC	The NPAC SMS issues an M-ACTION Response numberPoolBlock-Create to itself.		
5.	NPAC	1. The NPAC SMS issues an M-CREATE Request numberPoolBlock in CMIP (or PBCD – NpbCreateDownload in XML) to the LSMSs in the region that are accepting downloads for this NPA-NXX.	SP	1. The LSMSs that are accepting downloads for this NPA-NXX return an M-CREATE Response numberPoolBlock in CMIP (or DNLR – DownloadReply in XML). 2.
6.	NPAC	Upon the first successful response from an LSMS, the NPAC SMS sets the following timestamps to the current date and time: • numberPoolBlockActivationCompleteTimeStamp • subscriptionActivationCompleteTimeStamp • numberPoolBlockModifiedTimeStamp • subscriptionModifiedTimeStamp	NPAC	The NPAC SMS responds to each of the M-EVENT-REPORT subscriptionVersionLocalSMS-CreateResults as it receives these notifications with M-EVENT-REPORT Confirmations.
7.	NPAC	1. The NPAC SMS issues an M-SET Request subscriptionVersionNPAC to itself and updates the following attributes for each Pooled Subscription Version within the 1K Block: • sets the subscriptionVersionStatus to 'active'. • sets the Subscription Version Failed SP List to empty. • Sets the subscriptionModifiedTimeStamp to the current date and time. 2. The NPAC SMS issues an M-SET Request numberPoolBlockNPAC to itself and updates the following attributes:	NPAC	1. The NPAC SMS issues an M-SET subscriptionVersionNPAC Response to itself. 2. The NPAC SMS issues an M-SET numberPoolBlockNPAC Response to itself.

		• sets the numberPoolBlockStatus to 'active'. • sets the Number Pool Block Failed SP List to empty. • sets the numberPoolBlockModifiedTimeStamp to the current date and time.		
8.	NPAC	The NPAC SMS determines the SOA Origination Indicator is set to FALSE and terminates processing here.		
9.	NPAC	NPAC Personnel perform a query for the Number Pool Block and the 1K Block of Subscription Versions with LNP Type set to 'POOL' that NPAC Personnel re-scheduled during this Test Case.	NPAC	1. Verify the Number Pool Block exists with a status of 'active' and an empty Failed SP List. 2. Verify the 1K Block of Subscription Versions exists with LNP Type set to 'POOL', a status of 'active' and an empty Failed SP List.
10.	SP – Optional	Service Provider Personnel perform a local query for the Number Pool Block that NPAC Personnel re-scheduled during this Test Case.	SP	1. Verify that the Number Pool Block exists on the LSMS. 2.
11.	SP – Conditional	Service Provider Personnel perform an NPAC SMS query for the Number Pool Block and the 1K Block of Subscription Versions with LNP Type set to 'POOL' that NPAC Personnel re-scheduled during this Test Case.	SP	1. Verify the Number Pool Block exists on the NPAC SMS with status of 'active' and an empty Failed SP List. 2. Verify the 1K Block of Subscription Versions exist on the NPAC SMS with LNP Type set to 'POOL', a status of 'active' and an empty Failed SP List.
12.	NPAC	NPAC Personnel perform a full audit for the Number Pool Block and respective POOLed Subscription Versions created during this test case.	NPAC	Using the Audit Results Log verify that no updates were issued as a result of performing this audit. If any updates were sent the LSMS fails this test case.

A. TEST IDENTITY

Test Case Number:	**4.1.8**	**SUT Priority:**	**SOA LTI**	N/A
			SOA	C
			LSMS	O
Objective:	SOA - Service Provider Personnel create a Number Pool Block - that results in a Full Failure – Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-132, RR3-141.1, Table RR3-137.2RR3-137.2 (Row 15), Table RR3-138.2 (Row 15), RR3-142.1, RR3-153, RR5-95
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.4.4.1 Number Pool Block Create/Activate by SOA B.4.4.5. Number Pool Block Create Broadcast to Local SMS: Failure

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. If a Service Provider is not certifying an LSMS system, use LSMS simulators to create the failure scenario in this test case. 2. Verify that the respective NPA-NXX-X exists for which Service Provider Personnel will attempt to create the respective Number Pool Block during this Test Case. 3. Verify that the current date is equal to or greater than the NPA-NXX-X Effective Date. 4. Verify that no 'pending-like, no active' nor 'active-like' Subscription Versions exist for the 1K Block so that a non-contaminated Number Pool Block may be created.
Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	Using the SOA, Service Provider Personnel submit an M-ACTION numberPoolBlock-Create request in CMIP (or PBCQ – NpbCreateRequest in XML) to the NPAC SMS to create a Number Pool Block. The request must include the following attributes: • numberPoolBlockNPA-NXX-X • numberPoolBlockSPID • numberPoolBlockLRN • numberPoolBlockSVType – if supported by the Service Provider SOA • numberPoolBlockCLASS-DPC • numberPoolBlockCLASS-SSN • numberPoolBlockCNAM-DPC	NPAC	1. The NPAC SMS receives the request. 2. The NPAC SMS verifies the following information: • The requesting SOA is the NPA-NXX-X Holder SOA. • The serviceProvNPA-NXX-X object exists for the NPA-NXX-X (respective NPA-NXX-X information). • All attributes specified are valid. • A numberPoolBlockNPAC object does not already exist for the NPA-NXX-X (a duplicate Number Pool Block does not already exist). • The current date is greater than or equal to the NPA-NXX-X-EffectiveTimeStamp. • There are not any 'pending-like, no-active' Subscription Version objects within the given TN range.

		• numberPoolBlockCNAM-SSN • numberPoolBlockISVM-DPC • numberPoolBlockISVM-SSN • numberPoolBlockLIDB-DPC • numberPoolBlockLIDB-SSN • numberPoolBlockWSMSC-DPC – if supported by the Service Provider SOA • numberPoolBlockWSMSC-SSN – if supported by the Service Provider SOA • numberPoolBlockOptionalData– if supported by the Service Provider SOA		
2.	NPAC	1. The NPAC SMS issues an M-CREATE Request numberPoolBlockNPAC to itself. 2. The NPAC SMS sets the numberPoolBlockSOA-Origination Indicator to TRUE. 3. The NPAC SMS sets the numberPoolBlockStatus to 'sending'. 4. The NPAC SMS sets the following timestamps to the current date and time: • numberPoolBlockCreationTimeStamp • numberPoolBlockActivationTimeStamp • numberPoolBlockBroadcastTimeStamp • numberPoolBlockModifiedTimeStamp	NPAC	The NPAC SMS issues an M-CREATE Response numberPoolBlockNPAC to itself.
3.	NPAC	1. The NPAC SMS issues an M-CREATE Request subscriptionVersionNPAC to itself. 2. The NPAC SMS sets the LNP Type to 'POOL' for the Subscription Versions it creates within the 1K Block. 3. The NPAC SMS sets the Subscription Versions to 'sending'. 4. The NPAC SMS sets the following timestamps to the current date and time for the Subscription Versions: • subscriptionModifiedTimeStamp • subscriptionActivationTimeStamp	NPAC	The NPAC SMS issues an M-CREATE Response subscriptionVersionNPAC to itself.

		• subscriptionBroadcastTimeStamp • subscriptionCreationTimeStamp		
4.	NPAC	The NPAC SMS issues an M-ACTION Response numberPoolBlock-Create in CMIP (or PBCR – NpbCreateReply in XML) to the respective NPA-NXX-X Holder SOA that initiated the Number Pool Block Create request.	SP	The NPA-NXX-X Holder SOA receives the Response from the NPAC SMS.
5.	NPAC	The NPAC SMS issues an M-EVENT-REPORT objectCreation in CMIP (or POCN – NpbObjectCreationNotification in XML) for the numberPoolBlockNPAC to the NPA-NXX-X Holder SOA. The following attributes are sent in the objectCreation notification: • numberPoolBlockId • numberPoolBlockSOA-Origination • numberPoolBlockCreationTimeStamp • numberPoolBlockNPA-NXX-X • numberPoolBlockSPID • numberPoolBlockLRN • numberPoolBlockCLASS-DPC • numberPoolBlockCLASS-SSN • numberPoolBlockCNAM-DPC • numberPoolBlockCNAM-SSN • numberPoolBlockISVM-DPC • numberPoolBlockISVM-SSN • numberPoolBlockLIDB-DPC • numberPoolBlockLIDB-SSN • numberPoolBlockWSMSC-DPC – if supported by the Service Provider SOA • numberPoolBlockWSMSC-SSN – if supported by the Service Provider SOA • numberPoolBlockSVType – if supported by the Service Provider SOA • numberPoolBlockOptionalData – if supported by the Service Provider SOA	SP	The NPA-NXX-X Holder SOA issues an M-EVENT-REPORT Confirmation in CMIP (or NOTR – NotificationReply in XML) to the NPAC SMS.
6.	NPAC	1. The NPAC SMS issues an M-CREATE Request numberPoolBlock in CMIP (or PBCD – NpbCreateDownload in XML) to the LSMSs in the	NPAC	1. The NPAC SMS waits for all Responses from all LSMSs. 2. The NPAC SMS automatically retries any LSMS who does not respond within a tunable amount of time. 3. The NPAC SMS does not receive a response to the create requests from all LSMSs.

		region that are accepting downloads for this NPA-NXX.		
7.	NPAC	1. After all retries have been exhausted, the NPAC SMS issues an M-SET subscriptionVersionNPAC to itself and updates the following attributes for each Subscription Version within the 1K Block with LNP Type set to 'POOL': • sets the Subscription Version status to 'failed'. • sets the Subscription Version Failed SP List to reflect the Service Providers that did not respond. • sets the subscriptionModifiedTimeStamp is set to the current date and time. 2. The NPAC SMS issues an M-SET Request numberPoolBlockNPAC to itself to update the following attributes: • sets the numberPoolBlockStatus to 'failed'. • sets the Number Pool Block Failed SP List to reflect the Service Providers that did not respond. • sets the numberPoolBlockModified TimeStamp to the current date and time.	NPAC	1. The NPAC SMS issues an M-SET subscriptionVersionNPAC Response to itself. 2. The NPAC SMS issues an M-SET numberPoolBlockNPAC Response to itself.
8.	NPAC	The NPAC SMS determines the SOA Origination Indicator is set to TRUE and issues an M-EVENT-REPORT numberPoolBlockStatusAttributeValueChange in CMIP (or PATN – NpbAttributeValueChangeNotification in XML) to the NPA-NXX-X Holder SOA with the numberPoolBlockStatus set to 'failed' and the list of Service Providers that failed the create request.	SP	The NPA-NXX-X Holder SOA issues an M-EVENT-REPORT Confirmation in CMIP (or NOTR – NotificationReply in XML).
9.	NPAC	NPAC Personnel perform a query for the Number Pool Block and the 1K Block of Subscription Versions with LNP Type set to 'POOL' that Service Provider Personnel created during this Test Case.	NPAC	1. Verify the Number Pool Block exists with status of 'failed' and Failed SP List that reflects all Service Providers that failed the request. 2. Verify the 1K Block of Subscription Versions exist with LNP Type set to 'POOL', a status of 'failed' and a Failed SP List that reflects all Service Providers that failed the request.

				3. Verify data integrity (LRN and GTT data) has been maintained between the Number Pool Block and 1K Block of Subscription Versions with LNP Type set to 'POOL' on the NPAC SMS.
10.	SP – Optional	Service Provider Personnel perform a local query for the Number Pool Block that Service Provider Personnel created during this Test Case.	SP	Verify the Number Pool Block exists with a status of 'failed' and a Failed SP List that reflects all SPs that did not successfully process the NPAC SMS request on the SOA. For LSMS verify the Number Pool Block does not exist.
11.	SP – Conditional	Service Provider Personnel perform an NPAC SMS query for the Number Pool Block and the 1K Block of Subscription Versions with LNP Type set to 'POOL' that Service Provider Personnel created during this Test Case.	SP	1. Verify the Number Pool Block exists on the NPAC SMS with status of 'failed' and a Failed SP List that reflects all Service Providers that failed the request. 2. Verify the 1K Block of Subscription Versions exist on the NPAC SMS with LNP Type set to 'POOL', a status of 'failed' and a Failed SP List that reflects all Service Providers that failed the request.

A. TEST IDENTITY

Test Case Number:	**4.1.9**	**SUT Priority:**	**SOA LTI**	N/A
			SOA	O
			LSMS	R
Objective:	NPAC OP GUI - NPAC Personnel re-send a full failure Number Pool Block create to 1 LSMS on the failed SP list (2 systems are still on the Failed SP List) – Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	Table RR3-137.2RR3-137.2 (Row 14), RR3-138.1, RR3-138.2, Table RR3-138.2 (Row 14), RR3-139, RR3-153, RR3-185, RR3-186.1, RR3-186.2, RR3-187, RR3-188, RR3-189, RR3-190, RR3-195, RR3-196, RR3-197, RR5-85, RR5-72, RR5-73, RR5-77, RR5-78, RR5-79
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.4.4.8 Number Pool Block Create Resend Broadcast B.4.4.11 Number Pool Block Create Partial-Failure Resend NPAC SMS Updates

C. PREREQUISITE

Prerequisite Test Cases:	4.1.8 SOA - Service Provider Personnel create a Number Pool Block - that results in a Full Failure – Success
Prerequisite NPAC Setup:	1. Verify that a Number Pool Block exists with a status of 'failed' and a Failed SP List that contains 3 Service Providers. 2. Verify that the Service Provider under test and on the Failed SP List is configured and connected such the LSMS could now successfully process the Number Pool Block resend request.
Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	NPAC	1. Using the NPAC OP GUI, NPAC Personnel take action to resend a 'failed', Number Pool Block to the Service Provider in the Number Pool Block Failed SP List. 2. The NPAC SMS issues an M-SET numberPoolBlockNPAC to itself to set the following attributes: • set the numberPoolBlockStatus to 'sending'. • set the numberPoolBlockModified TimeStamp and numberPoolBlockBroadcast	NPAC	1. The NPAC SMS issues an M-SET Response numberPoolBlockStatus to itself. 2. The NPAC SMS issues an M-SET Response subscriptionVersionNPAC to itself.

		TimeStamp to the current date and time. 3. The NPAC SMS issues an M-SET subscriptionVersionNPAC to itself for all the Pooled Subscription Versions within the 1K Block to set the following attributes: • set the subscriptionVersionStatus to 'sending'. • set the subscriptionModifiedTimeStamp and subscriptionBroadcastTimeStamp to the current date and time.		
2.	NPAC	The NPAC SMS issues an M-CREATE Request numberPoolBlock in CMIP (or PBCD – NpbCreateDownload in XML) to the LSMS that NPAC Personnel indicated in the Number Pool Block resend request.	NPAC	1. The LSMS returns an M-CREATE Response numberPoolBlock in CMIP (or DNLR –DownloadReply in XML). 2. The NPAC SMS waits for the Response from the LSMS.
3.	NPAC	The NPAC SMS issues an M-SET Request numberPoolBlockNPAC to itself to set the following attributes: • set the numberPoolBlock status to 'partial failure'. • update the numberPoolBlockFailedSP-List is to reflect the LSMS systems that the Number Pool Block create resend request was not sent to. • set the numberPoolBlockModifiedTimeStamp to the current date and time.	NPAC	The NPAC SMS issues an M-SET Response to itself.
4.	NPAC	The NPAC SMS issues an M-SET subscriptionVersionNPAC to itself to set the following attributes for the Pooled Subscription Versions within the 1K Block: • set the Subscription Version status to 'partial failure'. • update the subscriptionFailedSP-List to reflect the name of the LSMS systems that the Number Pool Block create resend request was not sent to.	NPAC	The NPAC SMS issues an M-SET Response back to itself.

		• set the subscriptionModifiedTimeStamp to the current date and time.		
5.	NPAC	The NPAC SMS determines that the SOA Origination Indicator is set to FALSE and processing terminates here.		
6.	NPAC	NPAC Personnel perform a local query for the Number Pool Block and the 1K Block of Pooled Subscription Versions that NPAC Personnel resent during this Test Case.	NPAC	1. Verify the Number Pool Block exists with a status of 'partial failure' with a Failed SP List that contains the name of the two Service Providers that the Number Pool Block create was not resent to during this Test Case. 2. Verify the Pooled Subscription Versions within the 1K Block exist with a status of 'partial failure' with a Failed SP List that contains the name of the two Service Providers that the Number Pool Block create was not resent to during this Test Case.
7.	SP – Optional	Block Holder Service Provider Personnel perform a local query for the Number Pool Block and the 1K Block of Pooled Subscription Versions that NPAC Personnel resent during this Test Case.	SP	1. Verify that the Number Pool Block exists on the LSMS. 2.
8.	SP – Conditional	Service Provider Personnel perform an NPAC SMS query for the Number Pool Block and the 1K Block of Pooled Subscription Versions that NPAC Personnel resent during this Test Case.	SP	1. Verify the Number Pool Block exists with a status of 'partial failure' with a Failed SP List on the NPAC SMS. The Failed SP List contains the name of the Service Providers that the Number Pool Block create was not resent to during this Test Case. 2. Verify the Pooled Subscription Versions within the 1K Block exist with a status of 'partial failure' with a Failed SP List on the NPAC SMS. The Failed SP List contains the name of the Service Providers that the Number Pool Block create was not resent to during this Test Case.

A. TEST IDENTITY

Test Case Number:	**4.1.10**	**SUT Priority:**	**SOA LTI**	N/A
			SOA	O
			LSMS	R
Objective:	NPAC - NPAC Personnel perform a resend of a previously 'partial failure' Number Pool Block to all Service Providers in the Failed SP List – Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-120, RR3-121, RR3-138.1, RR3-140, RR3-153, RR3-186.1, RR3-186.2, RR3-187, RR3-188, RR3-189, RR3-191, RR3-194, RR3-195, RR3-196, RR5-100, RR5-101, RR5-72, RR5-74, RR5-78
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	2.6 Number Pool Block Create Resend Broadcast 2.7 Number Pool Block Create Successful Resend NPAC SMS Updates

Test Case procedures incorporated into test case 4.1.9.

A. TEST IDENTITY

Test Case Number:	**4.1.11**	**SUT Priority:**	**SOA LTI**	N/A
			SOA	C
			LSMS	O
Objective:	SOA – Service Provider Personnel create a Number Pool Block (to at least 4 LSMSs) that results in a Partial Failure - Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-132, RR3-138.1, RR3-153, RR5-100, RR5-101, RR5-95
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.4.4.1 Number Pool Block Create/Activate by SOA B.4.4.6 Number Pool Block Create Broadcast to Local SMS: Partial Failure B.4.4.7 Number Pool Block Create Broadcast Partially Failed NPAC SMS Updates

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify that at least four LSMSs are configured to be associated with the NPAC SMS and receive downloads for this NPA-NXX. One LSMS should be disconnected from the NPAC SMS to achieve a 'partial-failure' download. Use LSMS simulators to create the partial failure scenario for this test case. 2. Verify that the respective NPA-NXX-X exists for which Service Provider Personnel will attempt to create the respective Number Pool Block during this Test Case. 3. Verify that the current date is equal to or greater than the NPA-NXX-X Effective Date. 4. Verify that no 'pending-like, nor active-like' Subscription Versions exist for the 1K Block so that a non-contaminated Number Pool Block may be created.
Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	Using the SOA, Service Provider Personnel submit an M-ACTION numberPoolBlock-Create request in CMIP (or PBCQ – NpbCreateRequest in XML) to the NPAC SMS to create a Number Pool Block. The request must include the following attributes: • numberPoolBlockNPA-NXX-X • numberPoolBlockSPID • numberPoolBlockLRN • numberPoolBlockSVType – if supported by the Service Provider SOA	NPAC	1. The NPAC SMS receives the request. 2. The NPAC SMS verifies the following information: • **T**he requesting SOA is the NPA-NXX-X Holder SOA. • The serviceProvNPA-NXX-X object exists for the NPA-NXX-X (respective NPA-NXX-X information). • All attributes specified are valid. • A numberPoolBlockNPAC object does not already exist for the NPA-NXX-X (a duplicate Number Pool Block does not already exist). • The current date is greater than or equal to the NPA-NXX-X-EffectiveTimeStamp. • There are not any 'pending-like, no-active' Subscription Version objects within the given TN range.

		• numberPoolBlockCLASS-DPC • numberPoolBlockCLASS-SSN • numberPoolBlockCNAM-DPC • numberPoolBlockCNAM-SSN • numberPoolBlockISVM-DPC • numberPoolBlockISVM-SSN • numberPoolBlockLIDB-DPC • numberPoolBlockLIDB-SSN • numberPoolBlockWSMSC-DPC – if supported by the Service Provider SOA numberPoolBlockWSMSC-SSN – if supported by the Service Provider SOA numberPoolBlockOptionalData – if supported by the Service Provider SOA		
2.	NPAC	1. The NPAC SMS issues an M-CREATE Request numberPoolBlockNPAC to itself. 2. The NPAC SMS sets the numberPoolBlockSOA-Origination Indicator to TRUE. 3. The NPAC SMS sets the numberPoolBlockStatus to 'sending'. 4. The NPAC SMS sets the following timestamps to the current date and time: • numberPoolBlockCreationTimeStamp • numberPoolBlockActivationTimeStamp • numberPoolBlockBroadcastTimeStamp • numberPoolBlockModifiedTimeStamp	NPAC	The NPAC SMS issues an M-CREATE Response numberPoolBlockNPAC to itself.
3.	NPAC	1. The NPAC SMS issues an M-CREATE Request subscriptionVersionNPAC to itself. 2. The NPAC SMS sets the LNP Type to 'POOL' for the Subscription Versions it creates within the 1K Block. 3. The NPAC SMS sets the Subscription Versions to 'sending'. 4. The NPAC SMS sets the following timestamps to the current date and time for the Subscription Versions: • subscriptionModifiedTimeStamp	NPAC	The NPAC SMS issues an M-CREATE Response subscriptionVersionNPAC to itself.

		• subscriptionActivationTimeStamp • subscriptionBroadcastTimeStamp • subscriptionCreationTimeStamp		
4.	NPAC	The NPAC SMS issues an M-ACTION Response numberPoolBlock-Create in CMIP (or PBCR – NpbCreateReply in XML) to the respective NPA-NXX-X Holder SOA that initiated the Number Pool Block Create request.	SP	The NPA-NXX-X Holder SOA receives the Response from the NPAC SMS.
5.	NPAC	The NPAC SMS issues an M-EVENT-REPORT objectCreation in CMIP (or POCN – NpbObjectCreationNotification in XML) for the numberPoolBlockNPAC to the NPA-NXX-X Holder SOA. The following attributes are sent in the objectCreation notification: • numberPoolBlockId • numberPoolBlockSOA-Origination • numberPoolBlockCreationTimeStamp • numberPoolBlockNPA-NXX-X • numberPoolBlockSPID • numberPoolBlockLRN • numberPoolBlockCLASS-DPC • numberPoolBlockCLASS-SSN • numberPoolBlockCNAM-DPC • numberPoolBlockCNAM-SSN • numberPoolBlockISVM-DPC • numberPoolBlockISVM-SSN • numberPoolBlockLIDB-DPC • numberPoolBlockLIDB-SSN If supported by the Service Provider SOA, the following attributes will also be indicated in the ObjectCreation: • numberPoolBlockWSMSC-DPC • numberPoolBlockWSMSC-SSN • numberPoolBlockSVType • numberPool BlockOptionalData	SP	The NPA-NXX-X Holder SOA issues an M-EVENT-REPORT Confirmation in CMIP (or NOTR – NotificationReply in XML) to the NPAC SMS.
6.	NPAC	2. The NPAC SMS issues an M-CREATE Request numberPoolBlock in CMIP (or PBCD – NpbCreateDownload in XML) to the LSMSs in the region that are accepting downloads for this NPA-NXX.	NPAC	2. The LSMSs that are accepting downloads for this NPA-NXX return an M-CREATE Response numberPoolBlock in CMIP (or DNLR – DownloadReply in XML). 4. The NPAC SMS waits for all Responses from all LSMSs. 5. The NPAC SMS automatically retries any LSMS who does not respond within a tunable amount of time. The NPAC will retry with a Request.

7.	NPAC	Upon the first successful response from an LSMS, the NPAC SMS sets the following timestamps to the current date and time: • numberPoolBlockActivationCompleteTimeStamp • subscriptionActivationCompleteTimeStamp • numberPoolBlockModifiedTimeStamp • subscriptionModifiedTimeStamp	NPAC	The NPAC SMS does not receive a response from one of the LSMSs.
8.	NPAC	1. The NPAC SMS issues an M-SET Request subscriptionVersionNPAC to itself and updates the following attributes for each Pooled Subscription Version within the 1K Block: • sets the subscriptionVersionStatus to 'partial failure'. • sets the Subscription Version Failed SP List to reflect the Service Provider that did not respond to the NPAC request. • sets the subscriptionModifiedTimeStamp to the current date and time. 2. The NPAC SMS issues an M-SET Request numberPoolBlockNPAC to itself and updates the following attributes: • sets the numberPoolBlockStatus to 'partial failure' • sets the Number Pool Block Failed SP List to reflect the Service Provider that did not respond to the NPAC request. • sets the numberPoolBlockModifiedTimeStamp to the current date and time.	NPAC	1. The NPAC SMS issues an M-SET subscriptionVersionNPAC Response to itself. 2. The NPAC SMS issues an M-SET numberPoolBlockNPAC Response to itself
9.	NPAC	The NPAC SMS determines the SOA Origination Indicator is set to TRUE and issues an M-EVENT-REPORT numberPoolBlockStatusAttributeValueChange in CMIP (or PATN – NpbAttributeValueChangeNotification in XML) to the NPA-NXX-X Holder SOA to set the Number Pool Block status to 'partial failure' and set	SP	The NPA-NXX-X Holder SOA issues an M-EVENT-REPORT Confirmation in CMIP (or NOTR – NotificationReply in XML) back to the NPAC SMS.

		the Failed SP List to reflect those Service Providers that did not successfully process the request.		
10.	NPAC	NPAC Personnel perform a query for the Number Pool Block and the 1K Block of Subscription Versions with LNP Type set to 'POOL' that Service Provider Personnel created during this Test Case.	NPAC	1. Verify the Number Pool Block exists with a status of 'partial failure' and has a Failed SP List that reflects the Service Provider that failed the NPAC request. 2. Verify the Subscription Versions in the 1K Block with LNP Type set to 'POOL' exist with a status of 'partial failure' and a Failed SP List that reflects the Service Provider that failed the NPAC request.
11.	SP – Optional	Block Holder Service Provider Personnel perform a local query for the Number Pool Block that Service Provider Personnel created during this Test Case.	SP	Verify the Number Pool Block exists with a status of 'partial failure' and has a Failed SP List that reflects the Service Provider that failed the NPAC request on the SOA.
12.	SP – Conditional	Service Provider Personnel perform an NPAC SMS query for the Number Pool Block and the 1K Block of Subscription Versions with LNP Type set to 'POOL' that Service Provider Personnel created during this Test Case.	SP	1. Verify the Number Pool Block exists with a status of 'partial failure' and has a Failed SP List on the NPAC SMS. The Failed SP List reflects the Service Provider that failed the NPAC request. 2. The Subscription Versions in the 1K Block with LNP Type set to 'POOL' exist with a status of 'partial failure' and a Failed SP List on the NPAC SMS. The Failed SP List reflects the Service Provider that failed the NPAC request.

10.3.2 Modify Block Information Test Cases:

A. TEST IDENTITY

Test Case Number:	**4.2.1**	***SUT PRIORITY:***	**SOA LTI**	N/A
			SOA	C
			LSMS	R
Objective:	SOA- Service Provider Personnel modify an active Number Pool Block with the SOA Origination Indicator set to FALSE (and contains Subscription Versions with LNP Types of 'POOL', 'LISP' and 'LSPP'). - Success			

B. REFERENCES

NANC Change Order Revision Number:		***CHANGE ORDER NUMBER(S):***	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-119, RR3-120, RR3-121, RR3-122, RR3-128, RR3-133, RR3-157, RR3-159, RR3-160, RR3-162, RR3-163, RR3-164, RR3-165, RR3-167, RR3-168, RR5-85, RR5-86, RR5-87, RR5-103, RR5-104, RR5-105
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.4.4.13 Number Pool Block Modify by Block Holder SOA B.4.4.14 Number Pool Block Modify Successful Broadcast to Local SMS Success B.4.4.15 Number Pool Block Modify Successful Broadcast NPAC SMS Updates

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify the Number Pool Block to be modified exists on the NPAC SMS with a status of 'active' and an empty Failed SP List. 2. Verify that the Number Pool Block SOA-Origination Indicator is set to FALSE. 3. Verify that LISP and LSPP Subscription Versions exist for some TNs in the 1K Block. 4. 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 the service provider should indicate any Optional Data elements they support and SV Type data (if they support it) for the number pool block.
Prerequisite SP Setup:	All Service Providers verify either the Number Pool Block or 1K Block of Subscription Versions with LNP Type set to 'POOL' to be modified exists locally.

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	NPAC	Using the SOA, Service Provider Personnel submit an M-SET Request numberPoolBlock in CMIP (or PBMQ – NpbModifyRequest in XML) to modify the LRN for a Number Pool Block. The following attributes may be modified:	NPAC	1. The NPAC SMS receives the Request. 2. The NPAC SMS performs the following actions: • Updates the modified attributes in the Number Pool Block object. • Sets the numberPoolBlockStatus to 'sending'. • Updates the numberPoolBlockBroadcastTimeStamp and

		• numberPoolBlockLRN • numberPoolBlockSVType – if supported by the Service Provider SOA • numberPoolBlockCLASS-DPC • numberPoolBlockCLASS-SSN • numberPoolBlockCNAM-DPC • numberPoolBlockCNAM-SSN • numberPoolBlockLIDB-DPC • numberPoolBlockLIDB-SSN • numberPoolBlockISVM-DPC • numberPoolBlockISVM-SSN • numberPoolBlockWSMSC-DPC – if supported by the Service Provider SOA • numberPoolBlockWSMSC-SSN – if supported by the Service Provider SOA • numberPoolBlockOptionalData – if supported by the Service Provider SOA		numberPoolBlockModifiedTimeStamp to the current date and time.
2.	NPAC	The NPAC SMS issues an M-SET Response numberPoolBlock in CMIP (or PBMR – NpbModifyReply in XML) to the Service Provider SOA.	SP	The Service Provider SOA receives the Response.
3.	NPAC	The NPAC SMS issues an M-SET Request subscriptionVersionNPAC to itself to modify the attribute data on the corresponding subscriptionVersionNPAC object(s).	NPAC	1. The NPAC SMS issues an M-SET Response subscriptionVersionNPAC to itself. 2. The NPAC SMS performs the following actions: • Updates the modified attributes in the Subscription Versions within the 1K Block with LNP Type set to 'POOL'. • Sets the subscriptionVersionStatus to 'sending'. • Updates the subscriptionVersionBroadcastTimeStamp and the subscriptionVersionModifiedTimeStamp to the current date and time.
4.	NPAC	1. The NPAC SMS issues an M-SET Request numberPoolBlock in CMIP (or PBMD – NpbModifyDownload in XML) to update the attributes on the Number Pool Block object.	SP	1. The LSMS returns an M-SET Response numberPoolBlock in CMIP (or DNLR – DownloadReply in XML) back to the NPAC SMS.
5.	NPAC	Upon receiving a successful response from the LSMS, the following occurs: 1. The NPAC SMS issues an M-SET Request subscriptionVersionNPAC to itself to set the Subscription Version Status to 'active', update the Failed SP List to empty, and update the subscriptionModifiedTimeStamp to the current date and time. 2. The NPAC SMS issues an M-SET Request numberPoolBlockNPAC to itself to set the Number Pool Block	NPAC	1. The NPAC SMS issues an M-SET Response subscriptionVersionNPAC. 2. The NPAC SMS issues an M-SET Response numberPoolBlockNPAC.

		status to 'active', update the Failed SP List to empty and update the numberPoolBlockModifiedTimeStamp to the current date and time.		
6.	NPAC	The NPAC SMS determines the numberPoolBlockSOA-Origination indicator is set to FALSE, and further processing is terminated here.		
7.	NPAC	NPAC Personnel perform a query for the Number Pool Block and the 1K Block of Subscription Versions with LNP Type set to 'POOL' as well as 'LISP' and 'LSPP'.	NPAC	1. Verify the Number Pool Block was successfully modified and the status is set to 'active' with an empty Failed SP List. 2. Verify the Subscription Versions with LNP Type set to 'POOL' in the 1K Block were successfully modified and their status is set to 'active' with an empty Failed SP List. 3. Verify the Subscription Versions within the 1K Block with LNP Type set to 'LISP' and 'LSPP' have not been modified on any LSMS. 4. ~~Verify the NPAC SMS generated a Number Pool Block with a unique ID, all attributes prior to modification, and the status is set to 'old' with an empty Failed SP List.~~
8.	NPAC	NPAC Personnel verify that the 'old' Number Pool Block that was created as a result of the modification did not get broadcast.	NPAC	Verify the NPAC SMS did not broadcast the 'old' Number Pool Block.
9.	SP – Optional	Service Provider Personnel perform a local query for the Number Pool Block and the 1K Block of Subscription Versions with LNP Type set to 'LISP' and 'LSPP'.	SP	1. Verify you received the modification for Number Pool Block and that it was modified appropriately. 2. Verify the Subscription Versions within the 1K Block with LNP Type set to 'LISP' and 'LSPP' have not been modified on any LSMS.
10.	SP - Conditional	Service Provider Personnel perform an NPAC SMS query for the Number Pool Block and 1K Block of Subscription Versions with LNP Type set to 'LISP' and 'LSPP'.	SP	1. Verify the Number Pool Block was successfully modified and the status is set to 'active' with an empty Failed SP List on the NPAC SMS. 2. Verify the Subscription Versions within the 1K Block with LNP Type set to 'LISP' and 'LSPP' have not been modified on the NPAC SMS 3. Verify the Number Pool Block exists on the NPAC SMS with a unique ID, all attributes prior to modification, and the status is set to 'old' with an empty Failed SP List.
11.	SP – Conditional	Service Provider Personnel verify that the 'old' Number Pool Block that was created as a result of the modification did not get broadcast.	SP	Verify the 'old' Number Pool Block did not get broadcast.
12.	NPAC	1. NPAC Personnel perform a full audit for the Number Pool Block that was modified during this test case. 2. NPAC Personnel perform a full audit for the Subscription Versions respective to the Number Pool Block used during this test case.	NPAC	1. Using the Audit Results Log verify that there were no updates issued to the Number Pool Block as a result of performing the audit. If updates were made, the LSMS fails this test case. 2. Using the Audit Results Log verify that there were no updates issues as a result of performing the audit of the Subscription Versions.

A. TEST IDENTITY

Test Case Number:	**4.2.2**	**SUT Priority:**	**SOA LTI**	N/A
			SOA	C
			LSMS	O
Objective:	SOA – Service Provider Personnel modify the LRN for an active Number Pool Block and broadcast to LSMSs resulting in Full Failure – Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-137.3, Table RR3-137.3 (Row 15), RR3-138.2, Table RR3-138.2 (Row 15), RR3-128, RR3-141.3, RR3-157, RR3-159, RR3-160, RR3-162, RR3-163, RR3-164, RR3-165, RR3-166, RR5-85, RR5-87, RR5-103, RR5-104, RR5-105, RR5-106
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.4.4.13 Number Pool Block Modify by Block Holder SOA B.4.4.16 Number Pool Block Modify Broadcast to Local SMS Failure

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify the Number Pool Block to be modified exists on the NPAC SMS with a status of 'active', an empty Failed SP List and the SOA Origination Indicator set to TRUE. 2. Verify that at least 4 LSMSs are configured such that they will be sent downloads for this NPA-NXX. Keep all 4 LSMSs disconnected from the NPAC SMS to create a full failure scenario. Use LSMS simulators to create this failure scenario. 3. Verify the LRN that is to be used exists on the NPAC SMS and is owned by the Number Pool Block Holder. 4. 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 the service provider should indicate any Optional Data elements they support and SV Type data (if they support it) for the number pool block.
Prerequisite SP Setup:	All Service Providers verify that the Number Pool Block and the 1K Block of Subscription Versions with LNP Type set to 'POOL' to be modified exist locally.

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	NPAC	Using the SOA, Service Provider Personnel submit an M-SET Request numberPoolBlock in CMIP (or PBMQ – NpbModifyRequest in XML) to the NPAC SMS to modify a Number Pool Block. The following attributes may be modified: • numberPoolBlockLRN • numberPoolBlockSVType – if supported by the Service Provider SOA	NPAC	1. The NPAC SMS receives the Request 2. The NPAC SMS performs the following actions: • Updates the LRN in the Number Pool Block object. • Sets the numberPoolBlockStatus to 'sending'. • Updates the numberPoolBlockBroadcastTimeStamp and numberPoolBlockModifiedTimeStamp to the current date and time.

		• numberPoolBlockCLASS-DPC • numberPoolBlockCLASS-SSN • numberPoolBlockCNAM-DPC • numberPoolBlockCNAM-SSN • numberPoolBlockLIDB-DPC • numberPoolBlockLIDB-SSN • numberPoolBlockISVM-DPC • numberPoolBlockISVM-SSN • numberPoolBlockWSMSC-DPC – if supported by the Service Provider SOA • numberPoolBlockWSMSC-SSN – if supported by the Service Provider SOA • numberPoolBlockOptionalData – if supported by the Service Provider SOA		
2.	NPAC	The NPAC SMS issues an M-SET Response numberPoolBlock in CMIP (or PBMR – NpbModifyReply in XML) to the Service Provider SOA	NPAC	The Service Provider SOA receives the Response.
3.	NPAC	The NPAC SMS issues an M-SET Request subscriptionVersionNPAC to itself.	NPAC	1. The NPAC SMS issues an M-SET Response subscriptionVersionNPAC to itself. 2. The NPAC SMS performs the following actions: • **U**pdates the LRN in the Subscription Versions within the 1K Block with LNP Type set to 'POOL'. • Sets the subscriptionVersionStatus to 'sending'. • Updates the subscriptionVersionBroadcastTimeStamp and the subscriptionVersionModifiedTimeStamp to the current date and time.
4.	NPAC	2. The NPAC SMS issues an M-SET Request numberPoolBlock in CMIP (or PBMD – NpbModifyDownload in XML) to update the attributes on the Number Pool Block object to any LSMSs that are accepting downloads for this NPA-NXX.	SP	1. The NPAC SMS waits for a response from all LSMSs that are accepting downloads for this NPA-NXX. 2. The NPAC SMS retries any LSMS that does not respond within a tunable amount of time. 3. None of the LSMSs that are accepting downloads for this NPA-NXX respond to the Request.
5.	NPAC	After all retries have been exhausted, the NPAC SMS issues an M-SET Request subscriptionVersionNPAC to itself and performs the following actions: 1. updates the subscriptionVersionStatus to 'active' and the Failed SP List to empty for Subscription Versions within the 1K Block with LNP Type set to 'POOL'. 2. updates the Failed SP List to include all Service Provider LSMSs in the region that are accepting downloads for that NPA-NXX and did not respond to the NPAC SMS request.	NPAC	The NPAC SMS issues an M-SET Response to itself.

		3. updates the subscriptionModifiedTimeStamp to the current date and time		
6.	NPAC	The NPAC SMS issues an M-SET Request numberPoolBlockNPAC to itself and performs the following actions: 1. updates the numberPoolBlockStatus to 'active'. 2. updates the numberPoolBlockFailedSP-List to include all Service Provider LSMSs in the region that are accepting downloads for that NPA-NXX and did not respond to the NPAC SMS request. 3. updates the numberPoolBlockModifiedTime Stamp to the current date and time	NPAC	The NPAC SMS issues an M-SET Response to itself.
7.	NPAC	The NPAC SMS determines the numberPoolBlockSOA-Origination Indicator is set to TRUE and issues an M-EVENT-REPORT numberPoolBlockStatusAttributeValueChange in CMIP (or PATN – NpbAttributeValueChangeNotification in XML) with the numberPoolBlockStatus set to 'active' and the numberPoolBlockFailedSP List reflecting the 4 Service Providers that failed to process the NPAC SMS request to the NPA-NXX-X Holder SOA.	SP	The NPA-NXX-X Holder SOA issues an M-EVENT-REPORT Confirmation in CMIP (or NOTR – NotificationReply in XML) back to the NPAC SMS.
8.	NPAC	NPAC Personnel perform a query for the Number Pool Block and the 1K Block of Subscription Versions with LNP Type set to 'POOL'.	NPAC	1. Verify the Number Pool Block was successfully modified. 2. Verify the Number Pool Block has a status of 'active' with a Failed SP List. The Failed SP List contains the names of the Service Provider LSMSs that failed to receive the downloads. 3. Verify the Subscription Versions of LNP Type set to 'POOL' in the 1K Block were successfully modified. 4. Verify the Subscription Versions of LNP Type set to 'POOL' in the 1K Block have a status of 'active' with a Failed SP List. The Failed SP List contains the names of the Service Provider LSMSs that failed to receive the downloads.
9.	SP – Optional	Service Provider Personnel perform a local query for the Number Pool Block and the 1K Block of Subscription Versions with LNP Type set to 'POOL'	SP	1. Verify the Number Pool Block was not modified. 2. Verify the Subscription Versions of LNP Type set to 'POOL' in the 1K Block were not modified.
10.	SP – Conditional	Service Provider Personnel perform an NPAC SMS query for the Number	SP	1. Verify the Number Pool Block was successfully modified on the NPAC SMS.

		Pool Block and the 1K Block of Subscription Versions with LNP Type set to 'POOL'		2. Verify the Number Pool Block has a status of 'active' with a Failed SP List on the NPAC SMS. The Failed SP List contains the names of the LSMS Service Providers that failed to receive the downloads. 3. Verify the Subscription Versions of LNP Type set to 'POOL' in the 1K Block were successfully modified on the NPAC SMS. 4. Verify the Subscription Versions of LNP Type set to 'POOL' in the 1K Block have a status of 'active' with a Failed SP List on the NPAC SMS. The Failed SP List contains the names of the LSMS Service Providers that failed to receive the downloads.

A. TEST IDENTITY

Test Case Number:	**4.2.3**	**SUT Priority:**	**SOA LTI**	N/A
			SOA	C
			LSMS	O
Objective:	SOA - Service Provider Personnel modify the routing data for an active Number Pool Block and broadcast to multiple simulated LSMSs resulting in Partial Failure - Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-137.3, Table RR3-137.3 (Row 9), RR3-138.2, Table RR3-138.2 (Row 9), RR3-128, RR3-157, RR3-159, RR3-160, RR3-162, RR3-163, RR3-164, RR3-165, RR3-166, RR5-85, RR5-87, RR5-103, RR5-104, RR5-105, RR5-106
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.4.4.13 Number Pool Block Modify by Block Holder SOA B.4.4.17 Number Pool Block Modify Partial Failure Broadcast to Local SMSs B.4.4.18 Number Pool Block Modify Partial Failure Broadcast NPAC SMS Updates

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify the Number Pool Block to be modified exists on the NPAC SMS with a status of 'active', an empty Failed SP List and the SOA Origination Indicator is set to TRUE. 2. Verify that at least 4 LSMSs are configured such that they will be sent downloads for this NPA-NXX. 3. Verify that only one LSMS system that is accepting downloads for the NPA-NXX is associated with the NPAC SMS. Use LSMS simulators to create the partial failure scenario. 4. 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 the service provider should indicate any Optional Data elements they support and SV Type data (if they support it) for the number pool block.
Prerequisite SP Setup:	All Service Providers verify the Number Pool Block and 1K Block of Pooled Subscription Versions with LNP Type set to 'POOL' to be modified exist locally.

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	NPAC	Using the SOA, Service Provider Personnel submit an M-SET Request numberPoolBlock in CMIP (or PBMQ – NpbModifyRequest in XML) to the NPAC SMS to modify a Number Pool Block. The following attributes may be modified: • numberPoolBlockLRN	NPAC	1. The NPAC SMS receives the Request 2. The NPAC SMS performs the following actions: • Updates the LRN in the Number Pool Block object. • Sets the numberPoolBlockStatus to 'sending'. • Updates the numberPoolBlockBroadcastTimeStamp and numberPoolBlockModifiedTimeStamp to the current date and time.

		• numberPoolBlockSVType – if supported by the Service Provider SOA • numberPoolBlockCLASS-DPC • numberPoolBlockCLASS-SSN • numberPoolBlockCNAM-DPC • numberPoolBlockCNAM-SSN • numberPoolBlockLIDB-DPC • numberPoolBlockLIDB-SSN • numberPoolBlockISVM-DPC • numberPoolBlockISVM-SSN • numberPoolBlockWSMSC-DPC – if supported by the Service Provider SOA • numberPoolBlockWSMSC-SSN – if supported by the Service Provider SOA • numberPoolBlockOptionalData – if supported by the Service Provider SOA		
2.	NPAC	The NPAC SMS issues an M-SET Response numberPoolBlock in CMIP (or PBMR – NpbModifyReply in XML) to the Service Provider SOA	NPAC	The Service Provider SOA receives the Response.
3.	NPAC	The NPAC SMS issues an M-SET Request subscriptionVersionNPAC to itself.	SP	1. The NPAC SMS performs the following actions: • Updates the LRN in the Subscription Versions within the 1K Block with LNP Type set to 'POOL'. • Sets the subscriptionVersionStatus to 'sending'. • Updates the subscriptionVersionBroadcastTimeStamp and the subscriptionVersionModifiedTimeStamp to the current date and time. 2. The NPAC SMS issues an M-SET Response subscriptionVersionNPAC to itself.
4.	NPAC	2. The NPAC SMS issues an M-SET Request numberPoolBlock in CMIP (or PBMD – NpbModifyDownload in XML) to update the attributes on the Number Pool Block object to the LSMSs that are accepting downloads for this NPA-NXX.	SP	1. The NPAC SMS waits for a response from all LSMSs that are accepting downloads for this NPA-NXX. 2. One LSMS that is accepting downloads for this NPA-NXX issues an M-SET Response in CMIP (or DNLR – DownloadReply in XML) indicating it successfully received the modify request. 3. The NPAC SMS retries any LSMS that does not respond within a tunable amount of time.
5.	NPAC	After all retries have been exhausted, the NPAC SMS issues an M-SET Request subscriptionVersionNPAC to itself and performs the following actions: 1. updates the subscriptionVersionStatus to 'active' for Subscription Versions within the 1K Block with LNP Type set to 'POOL'. 2. updates the Failed SP List to include the Service Provider LSMSs in the region that are accepting downloads for that	NPAC	The NPAC SMS issues an M-SET Response to itself.

		NPA-NXX and did not successfully respond to the NPAC SMS request. 3. updates the subscriptionModifiedTimeStamp to the current date and time.		
6.	NPAC	The NPAC SMS issues an M-SET Request numberPoolBlockNPAC to itself and performs the following actions: 1. updates the numberPoolBlockStatus to 'active'. 2. updates the numberPoolBlockFailedSP-List to include the Service Provider LSMSs in the region that are accepting downloads for that NPA-NXX and did not successfully respond to the NPAC SMS request. 3. updates the numberPoolBlockModifiedTime Stamp to the current date and time.	NPAC	The NPAC SMS issues an M-SET Response to itself.
7.	NPAC	The NPAC SMS determines the numberPoolBlockSOA-Origination Indicator is set to TRUE and issues an M-EVENT-REPORT numberPoolBlockStatusAttributeValueChange in CMIP (or PATN – NpbAttributeValueChangeNotification in XML) with the numberPoolBlockStatus set to 'active' and the numberPoolBlockFailedSP List reflecting the 3 Service Providers that failed to process the NPAC SMS request – to the NPA-NXX-X Holder SOA.	SP	The NPA-NXX-X Holder SOA issues an M-EVENT-REPORT Confirmation in CMIP (or NOTR – NotificationReply in XML) back to the NPAC SMS.
8.	NPAC	NPAC Personnel perform a query for the Number Pool Block and the 1K Block of Subscription Versions with a LNP Type set to 'POOL'.	NPAC	1. Verify the Number Pool Block was successfully modified. 2. Verify the Number Pool Block has a status of 'active' with a Failed SP List. The Failed SP List contains the name of the systems that failed. 3. Verify the 1K Block of Subscription Versions with LNP Type set to 'POOL' were successfully modified. 4. Verify all Subscription Versions in the 1K Block have a status of 'active' and the Failed SP List contains the name of the systems that failed.
9.	SP – Optional	Service Provider Personnel perform a local query for the Number Pool Block.	SP	1. Verify the Number Pool Block has a status of 'active' with a Failed SP List on the NPAC SMS. The Failed SP List contains the name of the systems that failed.

10.	SP – Conditional	Service Provider Personnel perform an NPAC SMS query for the Number Pool Block or the 1K Block of Subscription Versions with LNP Type set to 'POOL'.	SP	1. Verify the Number Pool Block was successfully modified on the NPAC SMS. 2. Verify the Number Pool Block has a status of 'active' with a Failed SP List on the NPAC SMS. The Failed SP List contains the name of the systems that failed. 3. Verify the 1K Block of Subscription Versions with LNP Type set to 'POOL' were successfully modified on the NPAC SMS. 3. Verify all Subscription Versions in the 1K Block have a status of 'active' and a Failed SP List on the NPAC SMS. The Failed SP List contains the name of the systems that failed.

A. TEST IDENTITY

Test Case Number:	**4.2.4**	**SUT Priority:**	**SOA LTI**	N/A
			SOA	O
			LSMS	R
Objective:	NPAC OP GUI - NPAC Personnel re-send a failed Number Pool Block Modify Request to LSMSs – Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-140, RR3-142.2, RR3-185, RR3-192, RR3-193, RR3-194, RR3-195, RR3-196, RR3-197, RR5-85, RR5-86, RR5-75, RR5-77, RR5-78, RR5-79
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.4.4.19 Number Pool Block Modify Resend Broadcast B.4.4.20 Number Pool Block Modify Successful Resend updates

C. PREREQUISITE

Prerequisite Test Cases:	4.2.2 SOA – Service Provider Personnel modify the LRN for an active Number Pool Block and broadcast to LSMSs resulting in Full Failure – Success
Prerequisite NPAC Setup:	1. Verify that all LSMSs that are listed in the Failed SP List for the Number Pool Block that NPAC Personnel will resend during this Test Case are connected to the NPAC SMS and configured to receive downloads for the NPA-NXX – including the LSMS under test. 2. Verify the Number Pool Block and 1K Block of Subscription Versions with LNP Type set to 'POOL' exist with a status of 'active' and an empty Failed SP List.
Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	NPAC	1. Using the NPAC OP GUI, NPAC Personnel submit a request to resend a failed Number Pool Block Modify Request to each Service Provider in the Failed SP List. 2. The NPAC SMS issues an M-SET Request numberPoolBlock to itself to set the numberPoolBlockStatus to 'sending' and update the numberPoolBlockModifiedTimeStamp and numberPoolBlockBroadcastTimeStamp to the current date and time. 3. The NPAC SMS issues an M-SET subscriptionVersionNPAC to itself to set the subscriptionVersionStatus to	NPAC	1. The NPAC SMS issues an M-SET Response numberPoolBlockNPAC to itself. 2. The NPAC SMS issues an M-SET Response subscriptionVersionNPAC to itself.

		'sending' and update the subscriptionModifiedTimeStamp and subscriptionBroadcastTimeStamp to the current date and time for each Subscription Version within the 1K Block with LNP Type set to 'POOL'.		
2.	NPAC	2. The NPAC SMS issues an M-SET Request numberPoolBlock in CMIP (or PBMD – NpbModifyDownload in XML) to the LSMS(s) that is on the Number Pool Block Failed SP List.	SP	2. All LSMSs that are accepting downloads for this NPA-NXX issue an M-SET Response in CMIP (or DNLR – DownloadReply in XML) back to the NPAC SMS.
3.	NPAC	1. Upon the first successful response from an LSMS, the NPAC SMS sets the following timestamps to the current date and time: • numberPoolBlockModified TimeStamp • subscriptionModifiedTimeStamp 2. After a successful response from all LSMSs the resend request was sent to, the NPAC SMS issues an M-SET numberPoolBlockNPAC to itself and performs the following steps: • updates the numberPoolBlock status to 'active' and the Failed SP List to empty. • updates the numberPoolBlockModified TimeStamp to the current date and time. 3. At the same time as step 3.2, the NPAC SMS issues an M-SET subscriptionVersionNPAC to itself and performs the following steps for each Subscription Version within the 1K Block of LNP Type, 'POOL': • updates the subscriptionVersionStatus to 'active' and the Failed SP List to empty. • updates the subscriptionModifiedTimeStamp to the current date and time.	NPAC	The NPAC SMS issues an M-SET Response to itself.
4.	NPAC	The NPAC SMS determines the numberPoolBlockSOA-Origination Indicator is set to TRUE and issues an M-EVENT-REPORT	SP	The NPA-NXX-X Holder SOA issues an M-EVENT-REPORT Confirmation in CMIP (or NOTR – NotificationReply in XML) back to the NPAC SMS.

		numberPoolBlockStatusAttributeValueChange in CMIP (or PATN – NpbAttributeValueChangeNotification in XML) with the numberPoolBlockStatus set to 'active' and the numberPoolBlockFailedSP List is set to empty.		
5.	NPAC	NPAC Personnel perform a query for the Number Pool Block and the 1K Block of Subscription Versions with a LNP Type set to 'POOL'.	NPAC	1. Verify the Number Pool Block was successfully modified. 2. Verify the Number Pool Block has a status of 'active' with an empty Failed SP List. 3. Verify the 1K Block of Subscription Versions with LNP Type set to 'POOL' were successfully modified. 4. Verify all Subscription Versions in the 1K Block have a status of 'active' and an empty Failed SP List.
6.	SP – Optional	Service Provider Personnel perform a local query for the Number Pool Block and/or the 1K Block of Subscription Versions with LNP Type set to 'POOL'.	SP	1. Verify the Number Pool Block was successfully modified on the SOA and the LSMS.
7.	SP – Conditional	Service Provider Personnel perform an NPAC SMS query for the Number Pool Block and/or the 1K Block of Subscription Versions with LNP Type set to 'POOL'.	SP	1. Verify the Number Pool Block was successfully modified on the NPAC SMS. 2. Verify the Number Pool Block has a status of 'active' with an empty Failed SP List on the NPAC SMS. 3. Verify the 1K Block of Subscription Versions with LNP Type set to 'POOL' were successfully modified on the NPAC SMS. 4. Verify all Subscription Versions in the 1K Block have a status of 'active' and an empty Failed SP List on the NPAC SMS.
8.	NPAC	NPAC Personnel perform a full audit for the Number Pool Block and respective POOLed Subscription Versions modified during test case 4.2.2 and resent during this test case.	NPAC	Using the Audit Results Log verify that no updates were issued as a result of performing this audit. If any updates were sent the LSMS fails this test case.

A. TEST IDENTITY

Test Case Number:	**4.2.5**	***SUT PRIORITY:***	**SOA LTI**	N/A
			SOA	C
			LSMS	O
Objective:	SOA – Service Provider Personnel modify an active Number Pool Block with the SOA Origination Indicator set to TRUE, using an LRN that does not exist on the NPAC SMS for that Service Provider. – Error			

B. REFERENCES

NANC Change Order Revision Number:		***CHANGE ORDER NUMBER(S):***	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-131
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.4.4.13 Number Pool Block Modify by Block Holder SOA

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify the Number Pool Block to be modified exists on the NPAC SMS with a status of 'active' and an empty Failed SP List. 2. Verify the LRN to be used does not exist on the NPAC SMS.
Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	NPAC	Using the SOA, Service Provider Personnel submit an M-SET Request numberPoolBlock in CMIP (or PBMQ – NpbModifyRequest in XML) to modify a Number Pool Block, specifying an LRN that does not exist on the NPAC SMS.	NPAC	1. The NPAC SMS receives the Request. 2. The NPAC SMS determines that the LRN value does not exist on the NPAC SMS. **(This violates system requirements.)** 3. The NPAC SMS does not modify the attribute on the numberPoolBlockNPAC object.
2.	NPAC	The NPAC SMS issues an M-SET Error Response in CMIP (or PBMR – NpbModifyReply in XML) numberPoolBlockNPAC to the NPA-NXX-X Holder SOA indicating the error.	SP	The NPA-NXX-X Holder SOA receives the Error Response from the NPAC SMS.
3.	NPAC	NPAC Personnel perform a local query for the Number Pool Block and the 1K Block of Subscription Versions with LNP Type set to 'POOL'.	NPAC	1. Verify the Number Pool Block has not been modified. 2. Verify the 1K Block of Subscription Versions with LNP Type set to 'POOL' has NOT been modified.
4.	SP – Optional	Service Provider Personnel perform a local query for the Number Pool Block and the 1K Block of Subscription Versions with LNP Type set to 'POOL'.	SP	1. Verify the Number Pool Block has not been modified. 2. Verify the 1K Block of Subscription Versions has NOT been modified.

5.	SP – Conditional	Service Provider Personnel perform an NPAC SMS query for the Number Pool Block and the 1K Block of Subscription Versions with LNP Type set to 'POOL'.	SP	1. Verify the Number Pool Block has not been modified on the NPAC SMS. 2. Verify the 1K Block of Subscription Versions with LNP Type set to 'POOL' has NOT been modified on the NPAC SMS.

A. TEST IDENTITY

Test Case Number:	**4.2.6**	***SUT PRIORITY:***	**SOA LTI**	N/A
			SOA	C
			LSMS	N/A
Objective:	SOA – Service Provider Personnel attempt to modify a Number Pool Block for a Number Pool Block that has a status of 'active' with a Failed SP List. – Error			

B. REFERENCES

NANC Change Order Revision Number:		***CHANGE ORDER NUMBER(S):***	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-161
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.4.4.13 Number Pool Block Modify by Block Holder SOA

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	Verify that the Number Pool Block to be modified exists on the NPAC SMS with a status of 'active' and a Failed SP List.
Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	NPAC	Using the SOA, Service Provider Personnel submit an M-SET Request numberPoolBlock in CMIP (or PBMQ – NpbModifyRequest in XML) to modify an 'active' Number Pool Block with a Failed SP List.	NPAC	1. The NPAC SMS receives the Request. 2. The NPAC SMS determines that the Number Pool Block specified in the modify request exists on the NPAC SMS with a status of 'active' and a Failed SP List. **(This violates system requirements.)** 3. The NPAC SMS does not modify the attribute on the numberPoolBlockNPAC object. -
2.	NPAC	The NPAC SMS issues an M-SET Error Response numberPoolBlockNPAC in CMIP (or PBMR – NpbModifyReply in XML) to the NPA-NXX-X Holder SOA indicating there was an error.	SP	The NPA-NXX-X Holder SOA receives the Error Response from the NPAC SMS.
3.	NPAC	NPAC Personnel perform a local query for the Number Pool Block and the 1K Block of Subscription Versions with LNP Type set to 'POOL'.	NPAC	1. Verify the Number Pool Block has not been modified. The status is 'active' with the same Failed SP List. 2. Verify the 1K Block of Subscription Versions with LNP Type set to 'POOL' has not been modified. The status is 'active' with the same Failed SP List.
4.	SP – Optional	Service Provider Personnel perform a local query for the Number Pool Block and the 1K Block of Subscription Versions with LNP Type set to 'POOL'.	SP	1. Verify the Number Pool Block has not been modified. 2. Verify the 1K of Subscription Versions with LNP Type set to 'POOL' has not been modified.

5.	SP – Conditional	Service Provider Personnel perform an NPAC SMS query for the Number Pool Block and the 1K Block of Subscription Versions with LNP Type set to 'POOL'.	SP	1. Verify the Number Pool Block has not been modified on the NPAC SMS. The status is 'active' with the same Failed SP List. 2. Verify the 1K Block of Subscription Versions with LNP Type set to 'POOL' has not been modified on the NPAC SMS. The status is 'active' with the same Failed SP List.

A. TEST IDENTITY

Test Case Number:	**4.2.7**	***SUT PRIORITY:***	**SOA LTI**	N/A
			SOA	C
			LSMS	N/A
Objective:	NPAC OP GUI – NPAC Personnel modify the SOA Origination Indicator for a Number Pool Block - Success			

B. REFERENCES

NANC Change Order Revision Number:		***CHANGE ORDER NUMBER(S):***	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-154, RR3-155
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.4.4.22 Number Pool Block Modification of SOA-Origination Indicator

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	Verify the Number Pool Block to be modified exists on the NPAC SMS with a status of 'active', an empty Failed SP List and the SOA Origination Indicator is set to FALSE.
Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	NPAC	1. Using the NPAC OP GUI, NPAC Personnel submit a request to modify the SOA Origination Indicator for a Number Pool Block that exists on the NPAC SMS. 2. The NPAC SMS issues an M-SET Request numberPoolBlockNPAC to itself to change the value of the numberPoolBlockSOA-Origination to TRUE.	NPAC	The NPAC SMS receives the M-SET Request and issues an M-SET Response to itself.
2.	NPAC	The NPAC SMS issues an M-EVENT-REPORT numberPoolBlockAttributeValueChange in CMIP (or PATN – NpbAttributeValueChangeNotification in XML) to the NPA-NXX-X Holder SOA for the Number Pool Block that contains the numberPoolBlockSOA-Origination Indicator set to TRUE.	SP	The NPA-NXX-X Holder SOA issues an M-EVENT-REPORT Confirmation in CMIP (or NOTR – NotificationReply in XML) back to the NPAC SMS.
3.	NPAC	NPAC Personnel perform a query for the Number Pool Block.	NPAC	Verify the Number Pool Block has the SOA Origination Indicator set to TRUE.

A. TEST IDENTITY

Test Case Number:	**4.2.9**	**SUT Priority:**	**SOA LTI**	N/A
			SOA	C
			LSMS	O
Objective:	SOA - Service Provider Personnel modify the routing data for an active Number Pool Block and broadcast LSMSs resulting in Partial Failure – Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-137.3, Table RR3-137.3 (Row 2), RR3-138.2, Table RR3-138.2 (Row 2), RR3-128, RR3-157, RR3-159, RR3-160, RR3-162, RR3-163, RR3-164, RR3-165, RR3-166, RR5-85, RR5-87, RR5-103, RR5-104, RR5-105, RR5-106
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.4.4.12 Number Pool Block Modify by NPAC SMS B.4.4.17 Number Pool Block Modify Partial Failure Broadcast to Local SMS B.4.4.18 Number Pool Block Modify Broadcast Partial Failure NPAC SMS Updates

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify that the active Number Pool Block to be modified exists on the NPAC SMS with a status of 'active', an empty Failed SP List and the SOA Origination Indicator is set to TRUE. 2. Verify that at least 4 LSMSs are configured such that they will be sent downloads for this NPA-NXX. Use simulators to create the partial failure scenario.
Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	NPAC	Using the SOA, Service Provider Personnel submit an M-SET Request numberPoolBlock in CMIP (or PBMQ – NpbModifyRequest in XML) to the NPAC SMS to modify a Number Pool Block. The following attributes may be modified: • numberPoolBlockLRN • numberPoolBlockSVType – if supported by Service Provider SOA	NPAC	1. The NPAC SMS receives the Request. 2. The NPAC SMS performs the following actions: • Updates the LRN in the Number Pool Block object. • Sets the numberPoolBlockStatus to 'sending'. • Updates the numberPoolBlockBroadcastTimeStamp and numberPoolBlockModifiedTimeStamp to the current date and time.

		• numberPoolBlockCLASS-DPC • numberPoolBlockCLASS-SSN • numberPoolBlockCNAM-DPC • numberPoolBlockCNAM-SSN • numberPoolBlockLIDB-DPC • numberPoolBlockLIDB-SSN • numberPoolBlockISVM-DPC • numberPoolBlockISVM-SSN • numberPoolBlockWSMSC-DPC – if supported by the Service Provider SOA • numberPoolBlockWSMSC-SSN – if supported by the Service Provider SOA • numberPoolBlockOptionalData – if supported by the Service Provider SOA		
2.	NPAC	The NPAC SMS issues an M-SET Response numberPoolBlock in CMIP (or PBMR – NpbModifyReply in XML) to the Service Provider SOA	NPAC	The Service Provider SOA receives the Response.
3.	NPAC	The NPAC SMS issues an M-SET Request subscriptionVersionNPAC to itself.	SP	1. The NPAC SMS performs the following actions: • **U**pdates the LRN in the Subscription Versions within the 1K Block with LNP Type set to 'POOL'. • Sets the subscriptionVersionStatus to 'sending'. • Updates the subscriptionVersionBroadcastTimeStamp and the subscriptionVersionModifiedTimeStamp to the current date and time. 2. The NPAC SMS issues an M-SET Response subscriptionVersionNPAC to itself.
4.	NPAC	2. The NPAC SMS issues an M-SET Request numberPoolBlock in CMIP (or PBMD – NpbModifyDownload in XML) to update the attributes on the Number Pool Block object to the LSMSs that are accepting downloads for this NPA-NXX.	SP	1. The NPAC SMS waits for a response from all LSMSs that are accepting downloads for this NPA-NXX. 2. At least one LSMS that is accepting downloads for this NPA-NXX issues an M-SET Response in CMIP (or DNLR – DownloadReply in XML) indicating it successfully received the modify request. 3. The NPAC SMS retries any LSMS that does not respond within a tunable amount of time.
5.	NPAC	After all retries have been exhausted, the NPAC SMS issues an M-SET Request subscriptionVersionNPAC to itself and performs the following actions: 1. updates the subscriptionVersionStatus to 'active' for Subscription Versions within the 1K Block with LNP Type set to 'POOL'.	NPAC	The NPAC SMS issues an M-SET Response to itself.

		2. updates the Failed SP List to include the Service Provider LSMSs in the region that are accepting downloads for that NPA-NXX and did not successfully respond to the NPAC SMS request. 3. updates the subscriptionModifiedTimeStamp to the current date and time.		
6.	NPAC	The NPAC SMS issues an M-SET Request numberPoolBlockNPAC to itself and performs the following actions: 1. updates the numberPoolBlockStatus to 'active'. 2. updates the numberPoolBlockFailedSP-List to include the Service Provider LSMSs in the region that are accepting downloads for that NPA-NXX and did not successfully respond to the NPAC SMS request 3. updates the numberPoolBlockModifiedTimeStamp to the current date and time.	NPAC	The NPAC SMS issues an M-SET Response to itself.
7.	NPAC	The NPAC SMS determines the numberPoolBlockSOA-Origination Indicator is set to TRUE and issues an M-EVENT-REPORT numberPoolBlockStatusAttributeValueChange in CMIP (or PATN – NpbAttributeValueChangeNotification in XML) with the numberPoolBlockStatus set to 'active' and the numberPoolBlockFailedSP List reflecting the Service Provider LSMSs that failed to process the NPAC SMS request – to the NPA-NXX-X Holder SOA.	SP	The NPA-NXX-X Holder SOA issues an M-EVENT-REPORT Confirmation in CMIP (or NOTR – NotificationReply in XML) back to the NPAC SMS.
8.	NPAC	NPAC Personnel perform a query for the Number Pool Block and the 1K Block of Subscription Versions with a LNP Type set to 'POOL'.	NPAC	1. Verify the Number Pool Block was successfully modified. 2. Verify the Number Pool Block has a status of 'active' with a Failed SP List. The Failed SP List contains the name of the Service Provider LSMS systems that failed. 3. Verify the 1K Block of Subscription Versions with LNP Type set to 'POOL' were successfully modified. 4. Verify all Subscription Versions in the 1K Block have a status of 'active' and the Failed SP List contains the name of the two systems that failed.
9.	SP – Optional	Service Provider Personnel perform a local query for the Number Pool Block or the 1K Block of	SP	1. Verify the Number Pool Block has a status of 'active' with a Failed SP List on the NPAC SMS. The Failed SP List

		Subscription Versions with LNP Type set to 'POOL'.		contains the name of the Service Provider LSMS systems that failed. 2. Verify all Subscription Versions in the 1K Block have a status of 'active' and a Failed SP List on the NPAC SMS. The Failed SP List contains the name of the Service Provider LSMS systems that failed.
10.	SP – Conditional	Service Provider Personnel perform an NPAC SMS query for the Number Pool Block or the 1K Block of Subscription Versions with LNP Type set to 'POOL'.	SP	1. Verify the Number Pool Block was successfully modified on the NPAC SMS. 2. Verify the Number Pool Block has a status of 'active' with a Failed SP List on the NPAC SMS. The Failed SP List contains the name of the Service Provider LSMS systems that failed. 3. Verify the 1K Block of Subscription Versions with LNP Type set to 'POOL' were successfully modified on the NPAC SMS. 4. Verify all Subscription Versions in the 1K Block have a status of 'active' and a Failed SP List on the NPAC SMS. The Failed SP List contains the name of the Service Provider LSMS systems that failed.

A. TEST IDENTITY

Test Case Number:	**4.2.10**	**SUT Priority:**	**SOA LTI**	N/A
			SOA	C
			LSMS	O
Objective:	SOA - Service Provider Personnel modify the routing data for an active Number Pool Block and broadcast to LSMSs resulting in a Partial Failure – Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-137.3, Table RR3-137.3 (Row 9), RR3-138.2, Table RR3-138.2 (Row 9), RR3-128, RR3-157, RR3-159, RR3-160, RR3-162, RR3-163, RR3-164, RR3-165, RR3-166, RR5-85, RR5-87, RR5-103, RR5-104, RR5-105, RR5-106
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.4.4.13 Number Pool Block Modify by Block Holder SOA B.4.4.17 Number Pool Block Modify Partial Failure Broadcast to Local SMS B.4.4.18 Number Pool Block Modify Broadcast Partial Failure NPAC SMS Updates

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify that the active Number Pool Block to be modified exists on the NPAC SMS with a status of 'active', an empty Failed SP List and the SOA Origination Indicator is set to TRUE. 2. Verify that at least 4 LSMSs are configured such that they will be sent downloads for this NPA-NXX. Use simulators to create the partial failure scenario. 3. 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 the service provider should indicate any Optional Data elements they support and SV Type data (if they support it) for the number pool block.
Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	NPAC	Using the SOA, Service Provider Personnel submit an M-SET Request numberPoolBlock in CMIP (or PBMQ – NpbModifyRequest in XML) to the NPAC SMS to modify a Number Pool Block. The following attributes may be modified: • numberPoolBlockLRN	NPAC	1. The NPAC SMS receives the Request. 2. The NPAC SMS performs the following actions: • Updates the LRN in the Number Pool Block object. • Sets the numberPoolBlockStatus to 'sending'. • Updates the numberPoolBlockBroadcastTimeStamp and numberPoolBlockModifiedTimeStamp to the current date and time.

		• numberPoolBlockSVType – if supported by Service Provider SOA • numberPoolBlockCLASS-DPC • numberPoolBlockCLASS-SSN • numberPoolBlockCNAM-DPC • numberPoolBlockCNAM-SSN • numberPoolBlockLIDB-DPC • numberPoolBlockLIDB-SSN • numberPoolBlockISVM-DPC • numberPoolBlockISVM-SSN • numberPoolBlockWSMSC-DPC – if supported by the Service Provider SOA • numberPoolBlockWSMSC-SSN – if supported by the Service Provider SOA • numberPoolBlockOptionalData – if supported by the Service Provider SOA		
2.	NPAC	The NPAC SMS issues an M-SET Response numberPoolBlock in CMIP (or PBMR – NpbModifyReply in XML) to the Service Provider SOA.	NPAC	The Service Provider SOA receives the Response.
3.	NPAC	The NPAC SMS issues an M-SET Request subscriptionVersionNPAC to itself.	NPAC	1. The NPAC SMS performs the following actions: ▪ Updates the LRN in the Subscription Versions within the 1K Block with LNP Type set to 'POOL'. ▪ Sets the subscriptionVersionStatus to 'sending'. ▪ Updates the subscriptionVersionBroadcastTimeStamp and the subscriptionVersionModifiedTimeStamp to the current date and time. 2. The NPAC SMS issues an M-SET Response subscriptionVersionNPAC to itself.
4.	NPAC	1. The NPAC SMS issues an M-SET Request numberPoolBlock in CMIP (or PBMD – NpbModifyDownload in XML) to update the attributes on the Number Pool Block object to the LSMSs that are accepting downloads for this NPA-NXX.	SP	1. The NPAC SMS waits for a response from all LSMSs that are accepting downloads for this NPA-NXX. 2. At least one LSMS that is accepting downloads for this NPA-NXX issues an M-SET Response in CMIP (or DNLR – DownloadReply in XML) indicating it successfully received the modify request. 3. The NPAC SMS retries any LSMS that does not respond within a tunable amount of time.
5.	NPAC	After all retries have been exhausted, the NPAC SMS issues an M-SET Request subscriptionVersionNPAC to itself and performs the following actions: 1. updates the subscriptionVersionStatus to	NPAC	The NPAC SMS issues an M-SET Response to itself.

		'active' for Subscription Versions within the 1K Block with LNP Type set to 'POOL'. 2. updates the Failed SP List to include the Service Providers in the region that are accepting downloads for that NPA-NXX and did not successfully respond to the NPAC SMS request. 3. updates the subscriptionModifiedTimeStamp to the current date and time.		
6.	NPAC	The NPAC SMS issues an M-SET Request numberPoolBlockNPAC to itself and performs the following actions: 1. updates the numberPoolBlockStatus to 'active'. 2. updates the numberPoolBlockFailedSP-List to include the Service Providers in the region that are accepting downloads for that NPA-NXX and did not successfully respond to the NPAC SMS request. 3. updates the numberPoolBlockModifiedTimeStamp to the current date and time.	NPAC	The NPAC SMS issues an M-SET Response to itself.
7.	NPAC	The NPAC SMS determines the numberPoolBlockSOA-Origination Indicator is set to TRUE and issues an M-EVENT-REPORT numberPoolBlockStatusAttributeValueChange in CMIP (or PATN – NpbAttributeValueChangeNotification in XML) with the numberPoolBlockStatus set to 'active' and the numberPoolBlockFailedSP List reflecting the Service Providers that failed to process the NPAC SMS request – to the NPA-NXX-X Holder SOA.	SP	The NPA-NXX-X Holder SOA issues an M-EVENT-REPORT Confirmation in CMIP (or NOTR – NotificationReply in XML) back to the NPAC SMS.
8.	NPAC	NPAC Personnel perform a query for the Number Pool Block and the 1K Block of Subscription Versions with a LNP Type set to 'POOL'.	NPAC	1. Verify the Number Pool Block was successfully modified. 2. Verify the Number Pool Block has a status of 'active' with a Failed SP List. The Failed SP List contains the name of the LSMS systems that failed. 3. Verify the 1K Block of Subscription Versions with LNP Type set to 'POOL' were successfully modified. 4. Verify all Subscription Versions in the 1K Block have a status of 'active' and the Failed SP List contains the name of the LSMS systems that failed.

9.	SP – Optional	Service Provider Personnel perform a local query for the Number Pool Block or the 1K Block of Subscription Versions with LNP Type set to 'POOL'.	SP	1. Verify the Number Pool Block exists with a status of 'Active' and a Failed SP-List that reflects the LSMS that failed the request. 2. Verify that the 'POOL'ed Subscription Versions exist with a status of 'Active' and a Failed SP-List that reflects the LSMSs that failed the request.
10.	SP – Conditional	Service Provider Personnel perform an NPAC SMS query for the Number Pool Block or the 1K Block of Subscription Versions with LNP Type set to 'POOL'.	SP	1. Verify the Number Pool Block was successfully modified on the NPAC SMS. 2. Verify the Number Pool Block has a status of 'active' with a Failed SP List on the NPAC SMS. The Failed SP List contains the name of the two LSMS systems that failed. 3. Verify the 1K Block of Subscription Versions with LNP Type set to 'POOL' were successfully modified on the NPAC SMS. 4. Verify all Subscription Versions in the 1K Block have a status of 'active' and a Failed SP List on the NPAC SMS. The Failed SP List contains the name of the two LSMS systems that failed.

A. TEST IDENTITY

Test Case Number:	**4.2.11**	**SUT Priority:**	**SOA LTI**	N/A
			SOA	C
			LSMS	R
Objective:	SOA - Service Provider Personnel modify the routing data for an active Number Pool Block and broadcast to at least 4 LSMSs resulting in a Partial Failure – Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-137.3, Table RR3-137.3 (Row 12), RR3-138.2, Table RR3-138.2 (Row 12), RR3-128, RR3-157, RR3-159, RR3-160, RR3-162, RR3-163, RR3-164, RR3-165, RR3-166, RR5-85, RR5-87, RR5-103, RR5-104, RR5-105, RR5-106
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	2.10 Number Pool Block Modify by NPAC SMS 2.14.1 Number Pool Block Modify Partial Failure Broadcast to Local SMSs 2.14.2 Number Pool Block Modify Partial Failure Broadcast NPAC SMS Updates

Test case procedures incorporated into test case 4.2.9.

10.3.3 Delete Block Information Test Cases:

A. TEST IDENTITY

Test Case Number:	**4.3.2**	***SUT PRIORITY:***	**SOA LTI**	N/A
			SOA	N/A
			LSMS	N/A
Objective:	SOA - Service Provider Personnel attempt to delete a Number Pool Block over the SOA to NPAC SMS interface – Error Note: This test case does not apply to the XML interface.			

B. REFERENCES

NANC Change Order Revision Number:		***CHANGE ORDER NUMBER(S):***	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-170
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	Verify that an active Number Pool Block with an empty Failed SP List exists on the NPAC SMS.
Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	Using the SOA, Service Provider Personnel attempt to submit an M-DELETE Request numberPoolBlock for a Number Pool Block to the NPAC SMS.	NPAC	1. The NPAC SMS receives the M-DELETE Request numberPoolBlock from the Service Provider SOA. 2. The NPAC SMS determines the request to delete the Number Pool Block is invalid. **(This violates system requirements).**
2.	NPAC	The NPAC SMS issues an M-DELETE Error Response to the Service Provider SOA.	SP	The Service Provider SOA receives the M-DELETE Error Response.
3.	NPAC	NPAC Personnel perform a query for the Number Pool Block and 1K Block of Subscription Versions with LNP Type set to 'POOL'.	NPAC	1. Verify the Number Pool Block exists on the NPAC SMS with a status of 'active' and an empty Failed SP List. 2. Verify the 1K Block of Subscription Version with LNP Type set to 'POOL' exist on the NPAC SMS with a status of 'active' and an empty Failed SP List.
4.	SP - Optional	Service Provider Personnel perform a local query for the Number Pool Block and 1K Block of Subscription Versions with LNP Type set to 'POOL'.	SP	Verify the Number Pool Block exists with a status of 'active' and an empty Failed SP List. (Assuming that the Block existed on your SOA prior to attempting to delete it in this Test Case. If the Block did not exist on your SOA, then you do not need to perform Row 4.)
5.	SP – Conditional	Service Provider Personnel perform an NPAC SMS query for the Number Pool	SP	1. Verify the Number Pool Block exists on the NPAC SMS with a status of 'active' and an empty Failed SP List.

		Block and 1K Block of Subscription Versions with LNP Type set to 'POOL'.		2. Verify the 1K Block of Subscription Version with LNP Type set to 'POOL' exist on the NPAC SMS with a status of 'active' and an empty Failed SP List.

* There is not a flow for this functionality – so this test case is based on the assumption that the Service Provider SOA would issue an M-DELETE numberPoolBlock in an attempt to delete a Number Pool Block. Functional Requirements prohibit a Number Pool Block Delete Request (of any type) over the SOA to NPAC SMS Interface.

10.4 Query Block Information Test Cases:

A. TEST IDENTITY

Test Case Number:	**4.4.1**	***SUT PRIORITY:***	**SOA LTI**	N/A
			SOA	C
			LSMS	N/A
Objective:	SOA - Service Provider Personnel submit a Query Number Pool Block Request to the NPAC SMS using an NPA-NXX-X value as filter criteria. - Success			

B. REFERENCES

NANC Change Order Revision Number:		***CHANGE ORDER NUMBER(S):***	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-181, RR3-182
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.4.4.33 Number Pool Number Pool Block Query by SOA or LSMS

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify that more than one active Number Pool Block with an empty Failed SP List exist for a given Service Provider on the NPAC SMS. 2. 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 the service provider should indicate any Optional Data elements they support and SV Type data (if they support it) for the number pool block. 3. If the region and the SP under test support PLRN, you may specify criteria that include Blocks that use a PLRN value. In this case, verify that the SUT is included in the "PLRN Accepted SPID List" in their service provider profile so that they will receive a query reply that includes PLRN Blocks. If a SPID is not included on the "PLRN Accepted SPID List" the NPAC will not receive any PLRN information.
Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	1. Using the SOA, Service Provider Personnel submit a numberPoolBlock object query to the NPAC SMS for a Number Pool Block. Filter criteria used for the query is the NPA-NXX-X value. 2. The SOA issues an M-GET Request numberPoolBlock in CMIP (or PBQQ – NpbQueryRequest in XML) requesting a single numberPoolBlock object by	NPAC	The NPAC SMS receives the Request over the SOA to NPAC SMS interface.

		NPA-NXX-X value to the NPAC SMS.		
2.	NPAC	1. The NPAC SMS locates the numberPoolBlock object that matched the query criteria submitted by the SOA. 2. The NPAC SMS issues an M-GET Response numberPoolBlock in CMIP (or PBQR – NpbQueryReply in XML) with a single M-GET reply with all the attributes associated with the numberPoolBlock.	SP	The SOA receives the response for the numberPoolBlock query results:
3.	SP	Service Provider personnel view the Number Pool Blocks that the NPAC SMS returned and verify the following Number Pool Block attributes are provided for each Number Pool Block: • Block Id • Block Holder SPID • NPA-NXX-X • LRN • SV Type - if supported by the Service Provider SOA • CLASS DPC • CLASS SSN • LIDB DPC • LIDB SSN • CNAM DPC • CNAM SSN • ISVM DPC • ISVM SSN • WSMSC DPC - if supported by the Service Provider SOA • WSMSC SSN – if supported by the Service Provider SOA • Optional Data attributes – if supported by the Service Provider SOA • Creation Date • Activation Start TimeStamp • Activation Broadcast TimeStamp • Last Modified TimeStamp • Disconnect Broadcast Complete TimeStamp • Modify Broadcast Complete TimeStamp • SOA Origination Indicator • Status • Download Reason • Failed-SP-List	SP	All attributes are returned to the SOA.

		• Activity TimeStamp (XML only)		

A. TEST IDENTITY

Test Case Number:	**4.4.2**	***SUT PRIORITY:***	**SOA LTI**	N/A
			SOA	N/A
			LSMS	C
Objective:	LSMS - Service Provider Personnel submit a Number Pool Block query request over the LSMS to NPAC SMS Interface using the Number Pool Block ID as filter criteria. – Success			

B. REFERENCES

NANC Change Order Revision Number:		***CHANGE ORDER NUMBER(S):***	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-181, RR3-182
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.4.4.33 Number Pool Block Query by SOA or LSMS

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify that more than one active Number Pool Block with an empty Failed SP List exist for the query criteria on the NPAC SMS. 2. 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 the service provider should indicate any Optional Data elements they support and SV Type data (if they support it) for the number pool block. 3. If the region and the SP under test support PLRN, you may specify criteria that include Blocks that use a PLRN value. In this case, verify that the SUT is included in the "PLRN Accepted SPID List" in their service provider profile so that they will receive a query reply that includes PLRN Blocks. If a SPID is not included on the "PLRN Accepted SPID List" the NPAC will not receive any PLRN information.
Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	1. Using the LSMS, Service Provider Personnel submit a numberPoolBlock object query to the NPAC SMS for a Number Pool Block. Filter criteria used for the query is the Number Pool Block ID. 2. The LSMS issues an M-GET Request numberPoolBlock in CMIP (or PBQQ – NpbQueryRequest in XML) requesting a single numberPoolBlock object by numberPoolBlockId to the NPAC SMS.	NPAC	1. The NPAC SMS receives the Request over the LSMS to NPAC SMS interface.
2.	NPAC	1. The NPAC SMS locates the numberPoolBlock object	SP	The Service Provider Personnel receives the response for the numberPoolBlock query results.

		that matched the query criteria submitted by the LSMS. 2. The NPAC SMS issues an M-GET Response numberPoolBlock in CMIP (or PBQR – NpbQueryReply in XML) with a single M-GET reply with all the attributes associated with the numberPoolBlock.		
3.	SP	Service Provider personnel view the Number Pool Blocks that the NPAC SMS returned and verify the following Number Pool Block attributes for each Number Pool Block: • Block Id • Block Holder SPID • NPA-NXX-X • LRN • SV Type – if supported by the Service Provider LSMS • CLASS DPC • CLASS SSN • LIDB DPC • LIDB SSN • CNAM DPC • CNAM SSN • ISVM DPC • ISVM SSN • WSMSC DPC – if supported by the Service Provider LSMS • WSMSC SSN – if supported by the Service Provider LSMS • Optional Data attributes – if supported by the Service Provider LSMS • Creation Date • Activation Start TimeStamp • Activation Broadcast TimeStamp • Last Modified TimeStamp • Disconnect Broadcast Complete TimeStamp • Modify Broadcast Complete TimeStamp • SOA Origination Indicator • Status • Download Reason • Failed-SP-List • Activity TimeStamp (XML only)	SP	All attributes are returned to the LSMS.

10.5 Subscription Version Management Test Cases:

10.5.1 Query Subscription Version Test Cases:

A. TEST IDENTITY

Test Case Number:	**6.1.1**	***SUT PRIORITY:***	**SOA LTI**	N/A
			SOA	C
			LSMS	N/A
Objective:	SOA – Service Provider Personnel query the NPAC for multiple Subscription Versions with LNP Type set to 'POOL' – Success			

B. REFERENCES

NANC Change Order Revision Number:		***CHANGE ORDER NUMBER(S):***	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR5-83
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.5.6 Subscription Version Query

Test case procedures incorporated into test case 8.1.2.7.1.1 for Release 1.0.

A. TEST IDENTITY

Test Case Number:	**6.1.2**	***SUT PRIORITY:***	**SOA LTI**	N/A
			SOA	N/A
			LSMS	C
Objective:	LSMS – Service Provider Personnel query the NPAC for a single Subscription Version with LNP Type set to 'POOL' – Success			

B. REFERENCES

NANC Change Order Revision Number:		***CHANGE ORDER NUMBER(S):***	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR5-83
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.5.6 Subscription Version Query

Test Case procedures incorporated into test case 8.1.2.7.2.1 for Release 1.0.

10.6 Subscription Version Create Test Cases:

A. TEST IDENTITY

Test Case Number:	**6.2.2**	***SUT PRIORITY:***	**SOA LTI**	N/A
			SOA	C
			LSMS	N/A
Objective:	NPAC OP GUI - NPAC Personnel create an Intra-Service Provider Subscription Version where a previously 'active' Subscription Version does not exist, after the NPA-NXX-X Creation and prior to the NPA-NXX-X Effective Date - Success			

B. REFERENCES

NANC Change Order Revision Number:		***CHANGE ORDER NUMBER(S):***	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR5-58
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.5.1.2 Subscription Version Create by the Initial SOA (New Service Provider) B.5.1.11 Subscription Version Create for Intra-Service Provider Port

D. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify that the NPA-NXX-X exists for the TN to be used to create a 'pending' Intra-Service Provider Subscription Version. 2. Verify that the Effective Date for the NPA-NXX-X is a future date. 3. Verify that there is not a currently 'active' Subscription Version that exists for the TN to be used in this test case. 4. 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 the service provider should indicate any Optional Data elements they support and SV Type data (if they support it) for the subscription version. 5. Verify the SOA Supports Medium Timer Indicator is set to the production value for the Service Provider under test.
Prerequisite SP Setup:	

E. 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 an Intra-Service Provider Create on behalf of the Code Holder Service Provider for a TN that is within a 1K Block after the NPA-NXX-X Creation, but prior to NPA-NXX-X Effective Date. NPAC Personnel must specify the following attributes: • subscriptionTN or a valid subscriptionVersionTN-Range	NPAC	NPAC SMS receives the Subscription Version Create Request and performs the following validations: • Verify that each attribute specified is valid according to system requirements. • Verify that the Old/New Service Provider ID is the same as the Code Holder SPID. • Verify that the current date is prior to the NPA-NXX-X Effective Date.

		• subscriptionNewCurrentSP • subscriptionOldSP • subscriptionNewSP-DueDate (seconds set to zero) • subscriptionLNPType • subscriptionLRN • subscriptionSVType – if supported by the Service Provider SOA • subscriptionCLASS-DPC • subscriptionCLASS-SSN • subscriptionLIDB-DPC • subscriptionLIDB-SSN • subscriptionCNAM-DPC • subscriptionCNAM-SSN • subscriptionISVM-DPC • subscriptionISVM-SSN • subscriptionWSMSC-DPC - if supported by the Service provider SOA • subscriptionWSMSC-SSN - if supported by the Service Provider SOA The following attributes are optional: • subscriptionEndUser LocationValue • subscriptionEndUser LocationType • subscriptionBillingID • subscriptionOptionalData – all elements supported by the Service Provider SOA • subscriptionNewSPMediumTimerIndicator – if supported by the Service Provider SOA		**NOTE:** If the Service Provider SOA supports the Medium Timer Indicator, and it is provided in the create request, the NPAC SMS ignores this attribute for Intra-SP requests.
2.	NPAC	NPAC SMS issues an M-CREATE Request to itself to create the subscriptionVersionNPAC object (Subscription Version). • The Subscription Version status is set to 'pending'. • The subscriptionCreationTimeStamp, subscriptionNewSP-AuthorizationTimeStamp, subscriptionOldSP-AuthorizationTimeStamp, and subscriptionModifiedTimeStamp are set.	NPAC	NPAC SMS issues an M-CREATE Response to itself.
3.	NPAC	NPAC SMS issues an M-EVENT-REPORT objectCreation in CMIP (or VOCN – SvObjectCreationNotification in XML) to the Intra-Service Provider	SP	The Service Provider SOA receives the objectCreation from the NPAC SMS.

		SOA including the following information: • subscriptionTN • subscriptionNewCurrentSP • subscriptionOldSP • subscriptionNewSP-DueDate (seconds set to zeros) • subscriptionVersionStatus indicating this Subscription Version has been created on the NPAC SMS.		
4.	SP	Service Provider SOA sends an M-EVENT-REPORT Confirmation in CMIP (or NOTR – NotificationReply in XML) to the NPAC SMS.	NPAC	NPAC SMS receives the Confirmation from the Service Provider SOA.
5.	NPAC	NPAC Personnel perform a query for the Subscription Version.	NPAC	NPAC Personnel verify that the Subscription Version with LNP Type set to 'LISP' exists on the NPAC SMS.
6.	SP – Optional	Service Provider Personnel perform a local query for the Subscription Version.	SP	On the SOA, verify that the Subscription Version with LNP Type set to 'LISP' exists.
7.	SP – Conditional	Service Provider Personnel perform an NPAC SMS query for the Subscription Version.	SP	Verify that the Subscription Version with LNP Type set to 'LISP' exists on the NPAC SMS.
8.	SP – Optional	Service Provider Personnel using the SOA LTI perform an NPAC SMS query for the Subscription Version notification.	SP	Verify that the objectCreation notification for the create of the Subscription Version with LNP Type set to 'LISP' exists on the NPAC SMS.

A. TEST IDENTITY

Test Case Number:	**6.2.3**	***SUT PRIORITY:***	**SOA LTI**	N/A
			SOA	C
			LSMS	N/A
Objective:	SOA - Service Provider Personnel submit an Intra-Service Provider Subscription Version create request where a previously 'active' Subscription Version does not exist, after the NPA-NXX-X Creation and prior to the NPA-NXX-X Effective Date - Error			

B. REFERENCES

NANC Change Order Revision Number:		***CHANGE ORDER NUMBER(S):***	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR5-59
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.5.1.2 Subscription Version Create by the Initial SOA (New Service Provider) B.5.1.11 Subscription Version Create for Intra-Service Provider Port

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify that the NPA-NXX-X exists for the TN to be used to create a 'pending' Intra-Service Provider Subscription Version. 2. Verify that the Effective Date for the NPA-NXX-X is a future date. 3. Verify that there is not a currently 'active' Subscription Version that exists for the TN to be used in this test case. 4. Verify the SOA Supports SV Type and all Optional Data element are set to their production values for the Service Provider under test. In this test case the service provider should indicate any Optional Data elements they support and SV Type data (if they support it) for the subscription version.
Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	1. Using the SOA, the Code Holder Service Provider submit an Intra-Service Provider, Subscription Version create request for a TN within a1K Block after NPA-NXX-X Creation, but prior to the NPA-NXX-X Effective Date. 2. The SOA system sends an M-ACTION Request subscriptionVersionNewSP-Create in CMIP (or NCRQ – NewSpCreateRequest in XML) to the NPAC SMS to create the subscriptionVersionNPAC	NPAC	The NPAC SMS receives the Request from the Code Holder SOA and determines the following: • This TN is part of a 1K Block. • The NPA-NXX-X object has been created - however, it is prior to the Effective Date. • There is not a currently 'active' Subscription Version for this TN. **(This violates system requirements.)**

		(Subscription Version) on the NPAC SMS. 3. The following attributes must be provided: • subscriptionTN • subscriptionNewCurrentSP • subscriptionOldSP • subscriptionNewSP-DueDate • subscriptionLNPType • subscriptionPortingToOriginal-SP Switch • subscriptionLRN • subscriptionSVType – if supported by the Service Provider SOA • subscriptionCLASS-DPC • subscriptionCLASS-SSN • subscriptionLIDB-DPC • subscriptionLIDB-SSC • subscriptionCNAM-DPC • subscriptionCNAM-SSN • subscriptionISVM-DPC • subscriptionISVM-SSN • subscriptionWSMSC-DPC– if supported by the Service Provider SOA • subscriptionWSMSC-SSN– if supported by the Service Provider SOA • subscriptionEndUserLocationValue • subscriptionEndUserLocationType • subscriptionBillingID • subscriptionOptionalData – all elements supported by the Service Provider SOA		
2.	NPAC	The NPAC SMS issues an M-ACTION Response failure in CMIP (or NCRR – NewSpCreateReply in XML) indicating an error with the request to the SOA.	SP	The Service Provider SOA receives the Response.
3.	NPAC	NPAC Personnel perform a query for the Subscription Version.	NPAC	NPAC Personnel verify that the Subscription Version does not exist on the NPAC SMS.
4.	SP – Optional	Service Provider Personnel, perform a local query for the Subscription Version.	SP	On the SOA, verify that the Subscription Version does not exist.
5.	SP – Conditional	Service Provider Personnel, perform an NPAC SMS query for the Subscription Version.	SP	Verify that the Subscription Version does not exist on the NPAC SMS.

A. TEST IDENTITY

Test Case Number:	**6.2.4**	***SUT PRIORITY:***	**SOA LTI**	N/A
			SOA	C
			LSMS	N/A
Objective:	SOA - Service Provider Personnel submit an Inter-Service Provider, Port-to-Original Create request for the Code Holder after the NPA-NXX-X Creation and prior to NPA-NXX-X Effective Date – Error			

B. REFERENCES

NANC Change Order Revision Number:		***CHANGE ORDER NUMBER(S):***	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR5-56
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.5.1.17.13 Subscription Version Port-To-Original of a Pool TN-Creation Prior to NPA-NXX-X Effective Date

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify that the NPA-NXX-X exists respective to the TN that Service Provider Personnel are going to attempt to create a 'pending', PTO Subscription Version. 2. Verify that there is a currently 'active' Subscription Version that exists for the TN to be used in this test case.
Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	**NPAC or SP**	**Test Step**	**NPAC or SP**	**Expected Result**
1.	SP	1. Using the SOA, Service Provider Personnel submit an Inter-Service Provider, Port-to-Original Subscription Version Create Request to the NPAC SMS, (for a TN that is part of a 1K Block) after NPA-NXX-X Creation, and prior to the NPA-NXX-X Effective Date. Service Provider Personnel must specify the following attributes: • subscriptionTN • subscriptionNewCurrentSP • subscriptionOldSP • subscriptionOldSP-DueDate • subscriptionOldSP-Authorization	NPAC	The NPAC SMS receives the request from the Service Provider SOA with the Port-to-Original flag set to 'TRUE'. The NPAC SMS determines that the TN specified is part of a 1K Block that has not yet been activated (the NPA-NXX-X exists, but the 'active' Block does not yet exist). – **(This violates system requirements.)**

		• subscriptionPort-To-Original indicator • subscriptionLNPType 2. The SOA issues an M-ACTION subscriptionVersionNewSP-Create in CMIP (or NCRQ – NewSpCreateRequest in XML) to the NPAC SMS, specifying all required attributes.		
2.	NPAC	The NPAC SMS issues an M-ACTION Response in CMIP (or NCRR – NewSpCreateReply in XML) back to the Service Provider specifying, 'soa not authorized'.	SP	The Service Provider SOA receives the Response.
3.	NPAC	NPAC Personnel perform a query for the Subscription Version.	NPAC	NPAC Personnel verify that the Subscription Version does not exist on the NPAC SMS.
4.	SP – Optional	Service Provider Personnel perform a local query for the Subscription Version.	SP	On the SOA, verify that the Subscription Version does not exist.
5.	SP – Conditional	Service Provider Personnel, perform an NPAC SMS query for the Subscription Version.	SP	Verify that the Subscription Version does not exist on the NPAC SMS.

A. TEST IDENTITY

Test Case Number:	**6.2.5**	***SUT PRIORITY:***	**SOA LTI**	N/A
			SOA	C
			LSMS	N/A
Objective:	NPAC OP GUI - NPAC Personnel create a range of Intra-Service Provider Subscription Versions both within and outside of the 1K Block, where previously 'active' SVs do not exist for the Code Holder after the NPA-NXX-X Creation and prior to the NPA-NXX-X Effective Date - Success			

B. REFERENCES

NANC Change Order Revision Number:		***CHANGE ORDER NUMBER(S):***	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR5-58
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.5.1.2 Subscription Version Create by the Initial SOA (New Service Provider) B.5.1.11 Subscription Version Create for Intra-Service Provider Port

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify that the NPA-NXX-X exists for some of the TNs to be used to create a 'pending' Intra-Service Provider Subscription Version. 2. Verify that the Effective Date for the NPA-NXX-X is a future date. 3. Verify that there are not currently 'active' Subscription Versions that exists for all of the TNs to be used in this test case. 4. 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 the service provider should indicate any Optional Data elements they support and SV Type data (if they support it) for the subscription version. 5. Verify the SOA Supports Medium Timer Indicators is set to the production value for the 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.	NPAC	Using the NPAC OP GUI, NPAC Personnel submit an Intra-Service Provider Create on behalf of the Code Holder Service Provider for a range of TNs that are both within a 1K Block and outside of the 1K Block, after the NPA-NXX-X Creation, but prior to NPA-NXX-X Effective Date.	NPAC	NPAC SMS receives the Subscription Version Create Request and performs the following validations: • Verify that each attribute specified is valid according to system requirements.

		NPAC Personnel must specify the following attributes: • valid subscriptionVersionTN-Range • subscriptionNewCurrentSP • subscriptionOldSP • subscriptionNewSP-DueDate (seconds set to zeros) • subscriptionLNPType • subscriptionLRN • subscriptionSVType – if supported by the Service Provider SOA • subscriptionCLASS-DPC • subscriptionCLASS-SSN • subscriptionLIDB-DPC • subscriptionLIDB-SSN • subscriptionCNAM-DPC • subscriptionCNAM-SSN • subscriptionISVM-DPC • subscriptionISVM-SSN • subscriptionLNPType • subscriptionWSMSC-DPC - if supported by the Service Provider SOA • subscriptionWSMSC-SSN - if supported by the Service Provider SOA The following attributes are optional: • subscriptionEndUserLocationValue • subscriptionEndUserLocationType • subscriptionBillingID • subscriptionOptionalData – all elements supported by the Service Provider SOA • subscriptionNewSPMediumTimerIndicator – if supported by the Service Provider SOA		• Verify that the Old/New Service Provider ID is the same as the Code Holder SPID. • Verify that the current date is prior to the NPA-NXX-X Effective Date. **NOTE:** If the Service Provider SOA supports the Medium Timer Indicator, and it is provided in the create request, the NPAC SMS ignores this attribute for Intra-SP requests.
2.	NPAC	NPAC SMS issues an M-CREATE Request to itself to create the subscriptionVersionNPAC object (Subscription Version). • The Subscription Version status is set to 'pending'. • The subscriptionCreationTimeStamp, subscriptionNewSP-AuthorizationTimeStamp, subscriptionOldSP-AuthorizationTimeStamp, and subscriptionModifiedTimeStamp are set.	NPAC	NPAC SMS issues an M-CREATE Response to itself.
3.	NPAC	NPAC SMS issues an M-EVENT-REPORT objectCreation in CMIP (or VOCN – SvObjectCreationNotification in	SP	The Service Provider SOA receives the objectCreation from the NPAC SMS.

		XML) to the Intra-Service Provider SOA including the following information: • valid subscriptionVersionTN-Range • subscriptionNewCurrentSP • subscriptionOldSP • subscriptionNewSP-DueDate (seconds set to zeros) • subscriptionVersionStatus indicating this Subscription Version has been created on the NPAC SMS.		
4.	SP	Service Provider SOA sends an M-EVENT-REPORT Confirmation in CMIP (or NOTR – NotificationReply in XML) to the NPAC SMS.	NPAC	NPAC SMS receives the Confirmation from the Service Provider SOA.
5.	NPAC	NPAC Personnel perform a query for the Subscription Versions.	NPAC	1. NPAC Personnel verify that the Subscription Versions with LNP Type set to 'LISP' exist on the NPAC SMS. 2. The Subscription Versions created are both within and outside the TN range of the NPA-NXX-X.
6.	SP – Optional	Service Provider Personnel perform a local query for the Subscription Versions.	SP	On the SOA, verify that the Subscription Versions with LNP Type set to 'LISP' both within and outside the TN range of the NPA-NXX-X exist.
7.	SP – Conditional	Service Provider Personnel perform an NPAC SMS query for the Subscription Versions.	SP	Verify that the Subscription Versions with LNP Type set to 'LISP' both within and outside the TN range of the NPA-NXX-X exist on the NPAC SMS.

A. TEST IDENTITY

Test Case Number:	**6.2.7**	***SUT PRIORITY:***	**SOA LTI**	N/A
			SOA	C
			LSMS	N/A
Objective:	SOA - Service Provider Personnel submit an Inter-Service Provider, Port-to-Original Create request for the Code Holder after the NPA-NXX-X Effective Date and prior to the Block existence – Error			

B. REFERENCES

NANC Change Order Revision Number:		***CHANGE ORDER NUMBER(S):***	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR5-56
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.5.1.17.13 Subscription Version Port-To-Original of a Pool TN-Creation Prior to NPA-NXX-X Effective Date

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify that the NPA-NXX-X exists with SOA Origination Flag set to TRUE respective to the TN that Service Provider Personnel are going to attempt to create a 'pending', PTO Subscription Version. 2. Verify that there is a currently 'active' Subscription Version that exists for the TN to be used in this test case.
Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	1. Service Provider Personnel, using the SOA system as the Code Holder, submit an Inter-Service Provider, Port-to-Original Subscription Version Create Request to the NPAC SMS, (for a TN that is part of a 1K Block) after NPA-NXX-X Effective Date, and prior to the Block existence. Service Provider Personnel must specify the following attributes: • subscriptionTN • subscriptionNewCurrentSP • subscriptionOldSP • subscriptionOldSP-DueDate • subscriptionOldSP-Authorization • subscriptionLNPType	NPAC	The NPAC SMS receives the Request from the Service Provider SOA with the Port-to-Original flag set to 'TRUE'. The NPAC SMS determines that the TN specified is part of a 1K Block that has not yet been activated (the NPA-NXX-X exists, but the 'active' Block does not yet exist). – **(This violates system requirements)**.

		2. The SOA issues an M-ACTION subscriptionVersionNewSP-Create in CMIP (or NCRQ – NewSpCreateRequest in XML) to the NPAC SMS, specifying all required attributes.		
2.	NPAC	The NPAC SMS issues an M-ACTION Response in CMIP (or NCRR – NewSpCreateReply in XML) back to the Service Provider specifying, 'soa not authorized'.	SP	The Service Provider SOA receives the Response.
3.	NPAC	NPAC Personnel perform a query for the Subscription Version.	NPAC	NPAC Personnel verify that the Subscription Version does not exist on the NPAC SMS.
4.	SP – Optional	Service Provider Personnel perform a local query for the Subscription Version.	SP	On the SOA, verify that the Subscription Version does not exist.
5.	SP – Conditional	Service Provider Personnel perform an NPAC SMS query for the Subscription Version.	SP	Verify that the Subscription Version does not exist on the NPAC SMS.

A. TEST IDENTITY

Test Case Number:	**6.2.8**	***SUT PRIORITY:***	**SOA LTI**	N/A
			SOA	C
			LSMS	N/A
Objective:	SOA - Service Provider Personnel submit an Intra-Service Provider Create request after NPA-NXX-X Effective Date and Block Activation - Success			

B. REFERENCES

NANC Change Order Revision Number:		***CHANGE ORDER NUMBER(S):***	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR5-55
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.5.1.2 Subscription Version Create by the Initial SOA (New Service Provider).

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	
Prerequisite SP Setup:	1. The Service Provider is the Block Holder. 2. Verify that the TN has a currently 'active' Subscription Version associated with it where the LNP Type is set to 'POOL'. 3. 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 the service provider should indicate any Optional Data elements they support and SV Type data (if they support it) for the subscription version. 4. Verify the SOA Supports Medium Timer Indicator is set to the production value for the Service Provider under test.

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	1. Using the SOA, Block Holder Service Provider Personnel submit a request to Create a 'pending', Intra-Service Provider, Subscription Version specifying a TN that is part of an 'active' 1K Block. 2. The New Service Provider SOA sends an M-ACTION subscriptionVersionNewSP-Create in CMIP (or NCRQ – NewSpCreateRequest in XML) to the NPAC SMS lnpSubscription object to create a new subscriptionVersionNPAC. The New Service Provider must	NPAC	The NPAC SMS receives the Request from the Service Provider SOA and determines the request is valid. **NOTE:** If the Service Provider SOA supports the Medium Timer Indicator, and it is provided in the create request, the NPAC SMS ignores this attribute for Intra-SP requests.

		specify the following attributes: • subscriptionTN or a valid subscriptionVersionTN-Range • subscriptionNewCurrentSP • subscriptionOldSP • subscriptionNewSP-DueDate (seconds set to zero) • subscriptionLNPType • subscriptionLRN • subscriptionSVType – if supported by the Service Provider SOA • subscriptionCLASS-DPC • subscriptionCLASS-SSN • subscriptionLIDB-DPC • subscriptionLIDB-SSN • subscriptionCNAM-DPC • subscriptionCNAM-SSN • subscriptionISVM-DPC • subscriptionISVM-SSN • subscriptionWSMSC-DPC - if supported by the Service provider SOA • subscriptionWSMSC-SSN - if supported by the Service Provider SOA The following attributes are optional: • subscriptionEndUser LocationValue • subscriptionEndUser LocationType • subscriptionBillingID • subscriptionOptionalData – all elements supported by the Service Provider SOA • subscriptionNewSPMediumTimerIndicator – if supported by the Service Provider SOA		
2.	NPAC	The NPAC SMS issues an M-CREATE subscriptionVersionNPAC to itself to create the Subscription Version and set the status to 'pending', as well as the subscriptionModifiedTimeStamp and subscriptionCreationTimeStamp to the current date and time.	NPAC	The NPAC SMS issues an M-CREATE Response to itself.
3.	NPAC	The NPAC SMS issues a successful M-ACTION Response in CMIP (or NCRR – NewSpCreateReply in XML) to the originating SOA.	SP	The Originating SOA receives the Response from the NPAC SMS.

4.	NPAC	NPAC SMS issues an M-EVENT-REPORT objectCreation in CMIP (or VOCN – SvObjectCreationNotification in XML) to the Intra-Service Provider SOA including the following information: • subscriptionTN • subscriptionNewCurrentSP • subscriptionOldSP • subscriptionNewSP-DueDate (seconds set to zeros) • subscriptionVersionStatus indicating this Subscription Version has been created on the NPAC SMS.	SP	The Service Provider SOA issues an M-EVENT-REPORT Confirmation in CMIP (or NOTR – NotificationReply in XML) back to the NPAC SMS.
5.	NPAC	NPAC Personnel perform a query for the Subscription Version.	NPAC	NPAC Personnel verify that the Subscription Version with LNP Type set to 'LISP' exists on the NPAC SMS.
6.	SP – Optional	Service Provider Personnel perform a local query for the Subscription Version.	SP	On the SOA, verify that the Subscription Version with LNP Type set to 'LISP' exists.
7.	SP – Conditional	Service Provider Personnel perform an NPAC SMS query for the Subscription Version.	SP	Verify that the Subscription Version with LNP Type set to 'LISP' exists on the NPAC SMS.

A. TEST IDENTITY

Test Case Number:	**6.2.9**	***SUT PRIORITY:***	**SOA LTI**	N/A
			SOA	C
			LSMS	N/A
Objective:	SOA - Service Provider Personnel submit an Inter-Service Provider, Port-to-Original Create request for the Code Holder after the Block existence - Error			

B. REFERENCES

NANC Change Order Revision Number:		***CHANGE ORDER NUMBER(S):***	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR5-57
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.5.1.2 Subscription Version Create by the Initial SOA (New Service Provider)

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify that the NPA-NXX-X and the 1K Block exist respective to the TN that Service Provider Personnel are going to attempt to create a 'pending', PTO Subscription Version. 2. Verify that there is a currently 'active' Subscription Version with LNP Type is set to 'LSPP', which exists for the TN to be used in this test case.
Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	1. Using the SOA, the Code Holder Service Provider Personnel submit an Inter-Service Provider, Port-to-Original Subscription Version Create Request to the NPAC SMS, (for a TN that is part of a 1K Block) after the Block existence. 2. Service Provider Personnel must specify the following attributes: • subscriptionTN • subscriptionNewCurrentSP • subscriptionOldSP • subscriptionOldSP-DueDate • subscriptionOldSP-Authorization • subscriptionLNPType 3. The SOA issues an M-ACTION subscriptionVersionNewSP-Create in CMIP (or NCRQ – NewSpCreateRequest in XML)	NPAC	The NPAC SMS receives the Request from the Service Provider SOA with the Port-to-Original flag set to 'TRUE'. The NPAC SMS determines that the TN specified is part of a 1K Block that is no longer owned by the Code Holder. – **(This violates system requirements)**.

		to the NPAC SMS, specifying all required attributes.		
2.	NPAC	The NPAC SMS issues an M-ACTION Response in CMIP (or NCRR – NewSpCreateReply in XML) back to the Service Provider specifying, 'soa not authorized'.	SP	The Service Provider SOA receives the Response.
3.	NPAC	NPAC Personnel perform a query for the Subscription Version.	NPAC	NPAC Personnel verify that the Subscription Version does not exist on the NPAC SMS.
4.	SP – Optional	Service Provider Personnel perform a local query for the Subscription Version.	SP	On the SOA, verify that the Subscription Version does not exist.
5.	SP – Conditional	Service Provider Personnel perform an NPAC SMS query for the Subscription Version.	SP	Verify that the Subscription Version does not exist on the NPAC SMS.

A. TEST IDENTITY

Test Case Number:	**6.2.10**	**SUT Priority:**	**SOA LTI**	N/A
			SOA	C
			LSMS	R
Objective:	SOA - Service Provider Personnel submit an Activate request for a 'pending' Intra-Service Provider Subscription Version by the Code Holder, prior to the NPA-NXX-X Effective Date – Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR5-60
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.5.1.5 Subscription Version Activated by New Service Provider SOA B.5.1.6 Active Subscription Version Create on Local SMS

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify that the NPA-NXX-X exists for the TN to be used to create a 'pending' Inter-Service Provider Subscription Version. 2. Verify that the Effective Date for the NPA-NXX-X is a future date. 3. Verify that a Subscription Version with a status of 'active' does not exist for the TN to be used in this Test Case.
Prerequisite SP Setup:	1. Verify that a 'pending', Intra-Service Provider Subscription Version exists for a TN within the 1K Block and the due date is equal to or greater than the NPA-NXX Live Timestamp. 2. Verify that the respective Block is not yet 'active' in the NPAC SMS.

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	1. Using the SOA, New Service Provider Personnel submit a request to the NPAC to activate an Intra-Service Provider Subscription Version for a TN that is within a 1K Block. 2. SOA issues an M-ACTION Request subscriptionVersionActive in CMIP (or ACTQ – ActivateRequest in XML) to the NPAC SMS. The request specifies the Subscription Version ID, and/or subscription TN.	NPAC	The NPAC SMS receives the Request from the SOA.

2.	NPAC	NPAC SMS locates the respective Subscription Versions, and issues an M-SET Request to itself to set the subscriptionVersionStatus to 'sending' and set the subscriptionVersionActivationTimeStamp and subscriptionModifiedTimeStamp to the current date and time for the Subscription Version.	NPAC	The NPAC SMS issues an M-SET Response to itself.
3.	NPAC	The NPAC SMS issues an M-ACTION Response in CMIP (or ACTR – ActivateReply in XML) subscriptionVersionActive to the New Service Provider SOA.	SP	The New Service Provider SOA receives the Response from the NPAC SMS.
4.	NPAC	The NPAC SMS issues an M-SET Request to itself to set the subscriptionBroadcastTimeStamp to the current date and time for the Subscription Version.	NPAC	The NPAC SMS issues an M-SET Response to itself.
5.	NPAC	The NPAC SMS issues an M-CREATE Request subscriptionVersion in CMIP (or SVCD – SvCreateDownload in XML) to all LSMSs in the region that are accepting downloads for this NPA-NXX.	SP	1. All LSMSs in the region accepting downloads for this NPA-NXX receive the Request and verify that the request is valid. 2. All LSMSs in the region issue an M-CREATE Response(s) subscriptionVersion in CMIP (or DNLR – DownloadReply in XML) back to the NPAC. 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	The NPAC SMS issues an M-EVENT-REPORT subscriptionVersionStatusAttributeValueChange in CMIP (or VATN – SvAttributeValueChangeNotification in XML) to the Current Service Provider SOA to set the subscriptionVersionStatus to 'active'.	SP	The Current Service Provider SOA issues an M-EVENT-REPORT Confirmation in CMIP (or NOTR – NotificationReply in XML) back to the NPAC SMS.
7.	NPAC	NPAC Personnel perform a query for the Subscription Version.	NPAC	NPAC Personnel verify that the Subscription Version with status set to 'active' exists on the NPAC SMS.
8.	SP – Optional	Service Provider Personnel perform a local query for the Subscription Version.	SP	1. On the SOA, verify that the Subscription Version exists with an empty Failed SP List. 2. On the LSMS, verify that the Subscription Version exists with a status of 'active'.
9.	SP – Conditional	Service Provider Personnel perform an NPAC SMS query for the Subscription Version.	SP	Verify that the Subscription Version exists with status set to 'active' and an empty Failed SP List on the NPAC SMS.
10.	NPAC	NPAC Personnel perform a full audit for the Subscription Version activated during this test case.	NPAC	Using the Audit Results Log verify that no updates were issued as a result of performing this audit. If any updates were sent the LSMS fails this test case.

A. TEST IDENTITY

Test Case Number:	**6.2.11**	**SUT Priority:**	**SOA LTI**	N/A
			SOA	C
			LSMS	R
Objective:	SOA - Service Provider Personnel submit an Inter-Service Provider, Port-to-Original Activate request, after the Block existence – Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-183, RR5-57, RR5-61, RR5-62, RR5-68.1, RR5-68.2, RR5-68.3, RR5-68.4
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.5.1.17.1 Subscription Version Port-to-Original of a Ported Pool TN Activation by SOA B.5.1.17.2 Successful Broadcast of Port-to-Original Activation Request for a Pooled TN B.5.1.17.3 Successful Broadcast Complete NPAC SMS Updates for a Port-To-Original Request for a Pooled TN

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	This TN needs to have originally had an LNP Type set to 'POOL', and must have been subsequently ported away from the Block Holder - so it is currently 'active' with an LNP Type equal to either 'LISP' or 'LSPP' for another Service Provider.
Prerequisite SP Setup:	Verify that a 'pending', Port-to-Original request for this TN exists.

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	1. Using the SOA, the Block Holder Service Provider Personnel submit an Inter-Service Provider, Port-to-Original Activate request to the NPAC SMS for a pooled TN that has been subsequently ported away. 2. The Service Provider SOA submits an M-ACTION Request subscriptionVersionActivate in CMIP (or ACTQ – ActivateRequest in XML) to the NPAC SMS lnpSubscription object to	NPAC	The NPAC SMS receives the Request from the SOA.

		activate the 'pending' Subscription Version by specifying the Subscription Version ID, and Subscription Version TN.		
2.	NPAC	The NPAC SMS issues an M-SET Request to itself to set the subscriptionVersionStatus for SV1 to 'sending' as well as set the subscriptionBroadcastTimeStamp and subscriptionModifiedTimeStamp to the current date and time. (SV1 is the currently 'active' Subscription Version for this TN that exists on the NPAC SMS).	NPAC	The NPAC SMS receives the M-SET Request for SV1 and issues an M-SET Response for SV1 to itself.
3.	NPAC	The NPAC SMS issues an M-SET Request to itself to set the subscriptionVersionStatus for SV2 to 'sending', as well as set the subscriptionBroadcastTimeStamp and subscriptionModifiedTimeStamp to the current date and time. (SV2 is the currently 'pending' Subscription Version for this TN that exists on the NPAC SMS).	NPAC	NPAC SMS receives the M-SET Request for SV2 and issues an M-SET Response for SV2 to itself.
4.	NPAC	1. The NPAC SMS issues an M-CREATE Request to itself in order to create a Subscription Version with LNP Type set to 'POOL' for the NPA-NXX-X Service Provider. 2. The NPAC SMS sets the subscriptionVersionStatus to 'sending' for this Subscription Version. This Subscription Version is referred to as SV3. 3. The NPAC SMS also sets the subscriptionActivationTimeStamp, subscriptionCreationTimeStamp, subscriptionBroadcastTimeStamp and subscriptionModifiedTimeStamp to the current date and time for SV3. All routing information is populated from the respective numberPoolBlock that exists on the NPAC SMS.	NPAC	The NPAC SMS receives the M-CREATE Request for SV3 and issues an M-CREATE Response for SV3 to itself.
5.	NPAC	The NPAC SMS issues an M-ACTION Response in CMIP (or (ACTR – ActivateReply in XML)	SP	The New Service Provider SOA receives the Response from the NPAC SMS.

		back to the Block Holder Service Provider (New Service Provider) SOA.		
6.	NPAC	1. The NPAC SMS issues an M-DELETE Request subscriptionVersion in CMIP (or SVDD – SvDeleteDownload in XML) SV1 to all LSMSs in the region that are accepting downloads for this NPA-NXX.	SP	1. The NPAC SMS will wait for all responses for a tunable amount of time and will retry (with an appropriate message) within the tunable amount of time. 2. All but one LSMS in the region that are accepting downloads for this NPA-NXX issue a M-DELETE Response subscriptionVersion in CMIP (or DNLR – DownloadReply in XML) for SV1 back to the NPAC SMS. One LSMS does not respond or sends an M-DELETE Error Response. 3. Upon the 1st successful response from an LSMS, the subscriptionModifiedTimeStamp and subscriptionDisconnectCompleteTimeStamp are set to the current date and time.
7.	NPAC	The NPAC SMS issues an M-SET Request for SV3 to itself to set the subscriptionVersionStatus to 'active' as well as set the subscriptionModifiedTimeStamp to the current date and time for SV3.	NPAC	NPAC SMS receives the M-SET Request for SV3 and issues an M-SET Response for SV3.
8.	NPAC	The NPAC SMS issues an M-SET Request for SV1 to itself to set the subscriptionVersionStatus to 'old' as well as set the subscriptionModifiedTimeStamp to the current date and time for SV1.	NPAC	NPAC SMS receives the M-SET Request for SV1 and issues an M-SET Response for SV1.
9.	NPAC	The NPAC SMS issues an M-SET Request for SV2 to itself to set the subscriptionVersionStatus to 'old' as well as set the subscriptionModifiedTimeStamp to the current date and time for SV2.	NPAC	NPAC SMS receives the M-SET Request for SV2 and issues an M-SET Response for SV2.
10.	NPAC	The NPAC SMS issues an M-EVENT-REPORT subscriptionVersionStatusAttributeValueChange in CMIP (or VATN - SvAttributeValueChangeNotification in XML) to the Old Service Provider SOA to set the subscriptionVersionStatus to 'old' for SV1.	SP	The Old Service Provider SOA issues an M-EVENT-REPORT Confirmation in CMIP (or NOTR – NotificationReply in XML) for SV1.
11.	NPAC	The NPAC SMS issues an M-EVENT-REPORT subscriptionVersionStatusAttributeValueChange in CMIP (or VATN - SvAttributeValueChangeNotification in XML) to the Old Service Provider SOA to set the subscriptionVersionStatus to 'old' for SV2.	SP	The Old Service Provider SOA issues an M-EVENT-REPORT Confirmation in CMIP (or NOTR – NotificationReply in XML) for SV2.
12.	NPAC	The NPAC SMS issues an M-EVENT-REPORT subscriptionVersionStatusAttribute	SP	The New Service Provider SOA issues an M-EVENT-REPORT Confirmation in CMIP (or NOTR – NotificationReply in XML) for SV2.

		ValueChange in CMIP (or VATN - SvAttributeValueChangeNotification in XML) to the New Service Provider (Block Holder) SOA to set the subscriptionVersionStatus to 'old' and update the subscriptionVersionFailedSP-List to 'empty' for SV2.		
13.	NPAC	NPAC Personnel perform a query for the Subscription Version (SV2).	NPAC	NPAC Personnel verify that the Subscription Version with LNP Type set to 'POOL' and status set to 'active' with an empty Failed SP List exists on the NPAC SMS.
14.	SP – Optional	Service Provider Personnel perform a local query for the Subscription Version (SV2).	SP	1. On the SOA, verify that SV2 exists with an empty Failed SP List. 2. On the LSMS, verify that SV2 does not exist, but that the respective Number Pool Block does exist.
15.	SP – Conditional	Service Provider Personnel perform an NPAC SMS query for the Subscription Version (SV2).	SP	Verify that SV2 exists with an LNP Type set to 'POOL', a status of 'active' and an empty Failed SP List on the NPAC SMS.
16.	NPAC	NPAC Personnel perform a full audit for the Subscription Version activated during this test case.	NPAC	Using the Audit Results Log verify that no updates were issued as a result of performing this audit. If any updates were sent the LSMS fails this test case.

A. TEST IDENTITY

Test Case Number:	**6.2.12**	**SUT Priority:**	**SOA LTI**	N/A
			SOA	C
			LSMS	N/A
Objective:	SOA - Service Provider Personnel submit an Activate request for a 'pending', Inter-Service Provider, Port-to-Original Subscription Version, one or more of the LSMSs that are accepting downloads for that NPA-NXX do not respond resulting in a partial failure – Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR5-68.1, RR5-68.2, RR5-68.3, RR5-68.4, RR5-69, RR5-70
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	3.1 Subscription Version Port-To-Original of a Ported Pool TN Activation by SOA 3.1.1 Port-To-Original Activation by SOA or a Pooled TN 3.3 Subscription Version Create Port-To-Original of a Pool TN: Partial Failure to One or More Local SMSs 3.3.1 Port-To-Original Activation Partial Failure Broadcast of a Pooled TN 3.3.2 Partial failure Broadcast Complete NPAC SMS Updates of a Port-To-Original

Test case procedures incorporated into test case 8.1.2.4.1.21 from Release 1.0.

A. TEST IDENTITY

Test Case Number:	**6.2.13**	**SUT Priority:**	**SOA LTI**	N/A
			SOA	O
			LSMS	R
Objective:	NPAC OP GUI - NPAC Personnel submit a resend for a 'failed' Port-to-Original Activate request and all LSMSs process the re-send – Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR5-80, RR5-82.1, RR5-82.2
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	3.4 Subscription Version Create Port-To-Original of a Pool TN: Resend Successful to Local SMS for a Pooled TN B.5.1.17.8 Port-To-Original NPAC SMS Initiates Successful Resend for a Pooled TN B.5.1.17.9 Successful Resend Broadcast of a Port-To-Original of a Pooled TN B.5.1.17.10 Updates to NPAC SMS after Successful Resend of Port-To-Original Request of a Pooled TN

C. PREREQUISITE

Prerequisite Test Cases:	8.1.2.4.1.21 Activate porting to original 'pending' port of a single TN. – Partial Failure
Prerequisite NPAC Setup:	1. Verify that a 'failed' Port-to-Original Activate request exists on the NPAC SMS. 2. Verify that the LSMS under test is on the failed SP list and is configured/connected to the NPAC SMS such that they should now successfully process the Activate request. 3. Configure any other necessary LSMS simulators to clear the failed scenario during this test case.
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 resend request for a 'failed' Port-to-Original Activate. The NPAC SMS issues an M-SET Request subscriptionVersionStatus to itself to set the subscriptionVersionStatus for SV2 to 'sending', and set the subscriptionBroadcastTimeStamp and the subscriptionModifiedTimeStamp to the current date and time.	NPAC	The NPAC SMS issues an M-SET Response for SV2 to itself.

2.	NPAC	1. The NPAC SMS determines which LSMS failed the request (in this case one is the LSMS under test and at least one simulator). 2. The NPAC SMS issues an M-SET Request subscriptionVersionStatus to itself to set the subscriptionVersionStatus to 'sending', and set the subscriptionBroadcastTimeStamp and subscriptionModifiedTimeStamp to the current date and time for SV1. 3. The NPAC SMS issues an M-SET Request subscriptionVersionStatus to itself to set the subscriptionVersionStatus to 'sending' and set the subscriptionBroadcastTimeStamp and subscriptionModifiedTimeStamp to the current date and time for SV3.	NPAC	The NPAC SMS receives the respective message(s) and issues respective M-SET Response(s) back to itself. (Steps 2.2 and 2.3 can occur in any order)
3.	NPAC	1. The NPAC SMS issues an M-DELETE Request subscriptionVersion for SV1 in CMIP (or SVDD – SvDeleteDownload in XML) to the LSMSs that failed the request.	SP	1. The LSMS under test, issues an M-DELETE Response for SV1 in CMIP (or DNLR – DownloadReply in XML) back to the NPAC SMS. 2. All previously failed LSMSs respond appropriately to the NPAC SMS. 3. Upon the 1st successful response from an LSMS, the NPAC SMS sets the subscriptionVersionDisconnectCompleteTimeStamp to the current date and time.
4.	NPAC	The NPAC SMS issues an M-SET Request to itself to update the subscriptionVersionStatus to 'active' and set the subscriptionModifiedTimeStamp to the current date and time for SV3.	NPAC	The NPAC SMS issues an M-SET Response for SV3 to itself.
5.	NPAC	The NPAC SMS issues an M-SET Request to itself to update the subscriptionVersionStatus to 'old' and set the subscriptionDisconnectCompleteTimeStamp upon the first successful response from an LSMS as well as set the subscriptionModifiedTimeStamp to the current date and time for SV1.	NPAC	The NPAC SMS issues an M-SET Response for SV1 to itself.

6.	NPAC	The NPAC SMS issues an M-SET Request to itself to update the subscriptionVersionStatus to 'old' and the subscriptionFailedSP-List to empty, as well as set the subscriptionModifiedTimeStamp to the current date and time for SV2.	NPAC	The NPAC SMS issues an M-SET Response for SV2 to itself.
7.	NPAC	The NPAC SMS issues an M-EVENT-REPORT subscriptionVersionStatusAttributeValueChange in CMIP (or VATN - SvAttributeValueChangeNotification in XML) to the Old Service Provider SOA and updates the subscriptionVersionStatus to 'old' for SV1.	SP	The Old Service Provider SOA issues an M-EVENT-REPORT Confirmation in CMIP (or NOTR – NotificationReply in XML) back to the NPAC SMS.
8.	NPAC	The NPAC SMS issues an M-EVENT-REPORT subscriptionVersionStatusAttributeValueChange in CMIP (or VATN - SvAttributeValueChangeNotification in XML) to the Old Service Provider SOA and updates the subscriptionVersionStatus to 'old' for SV2.	SP	The Old Service Provider SOA issues an M-EVENT-REPORT Confirmation in CMIP (or NOTR – NotificationReply in XML) back to the NPAC SMS.
9.	NPAC	The NPAC SMS issues an M-EVENT-REPORT subscriptionVersionStatusAttributeValueChange in CMIP (or VATN - SvAttributeValueChangeNotification in XML) to the New Service Provider (Block Holder) SOA and updates the subscriptionVersionStatus to 'old' for SV2.	SP	The New Service Provider (Block Holder) SOA issues an M-EVENT-REPORT Confirmation in CMIP (or NOTR – NotificationReply in XML) back to the NPAC SMS.
10.	NPAC	NPAC Personnel perform a query for the Subscription Version (SV2).	NPAC	NPAC Personnel verify that the Subscription Version with LNP Type set to 'POOL' and status set to 'active' exists on the NPAC SMS.
11.	SP – Optional	Service Provider Personnel perform a local query for the Subscription Version (SV2).	SP	1. On the SOA, verify that SV2 exists with an empty Failed SP List. 2. Verify that SV2 does not exist, but that the respective Number Pool Block does exist.
12.	SP – Conditional	Service Provider Personnel perform an NPAC SMS query for the Subscription Version (SV2).	SP	Verify that SV2 exists with an LNP Type set to 'POOL', a status of 'active' and an empty Failed SP List on the NPAC SMS.
13.	NPAC	NPAC Personnel perform a full audit for the Subscription Version resent during this test case.	NPAC	Using the Audit Results Log verify that no updates were issued as a result of performing this audit. If any updates were sent the LSMS fails this test case.

SV1 is the 'active' Subscription Version.
SV2 is the 'failed' Subscription Version with the Port-to-Original flag set to 'TRUE'.
SV3 is the pool reinstatement Subscription Version with LNP Type set to 'POOL' that reinstates default routing to the Block Holder.
After a tunable amount of days, the Subscription Versions SV1 and SV2 are purged by the NPAC SMS housekeeping process.

A. TEST IDENTITY

Test Case Number:	**6.2.15**	**SUT Priority:**	**SOA LTI**	N/A
			SOA	O
			LSMS	R
Objective:	NPAC OP GUI - NPAC Personnel create an Inter-Service Provider Subscription Version for the New Service Provider, where the currently active SV exists for another Service Provider, after the NPA-NXX-X Creation and prior to the NPA-NXX-X effective date – Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.5.1.2 Subscription Version Create by the Initial SOA (New Service Provider)

C. TIME ESTIMATE

Estimated Execution Time:	[15]	**Estimated Prerequisite Setup Time:**	[10]	**Estimated NPAC Setup Time:**	[10]	**Estimated SP Setup Time:**	[0]

D. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify that the NPA-NXX-X exists for the TN you are going to create a pending Inter-SP Subscription Version. 2. Verify that the effective date for the NPA-NXX-X is a future date. 3. Verify that there is a currently active subscription version that exists for the TN you are going to use in this test case. 4. 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 the service provider should indicate any Optional Data elements they support and SV Type data (if they support it) for the subscription version. 5. Verify the SOA Supports Medium Timer Indicator is set to the production value for the Service Provider under test.
Prerequisite SP Setup:	

E. 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 an Inter-SP New Create on behalf of the Code Holder for a TN that is within a 1K Block and has a currently active SV that belongs to another Service Provider, after the NPA-NXX-X Creation, but prior to NPA-NXX-X Effective Date. NPAC Personnel must specify the following attributes: • subscriptionTN	NPAC	NPAC SMS receives the SV Create Request and performs the following validations: 1. Verify that each attribute specified is valid according to system requirements. 2. Verify that the Old Service Provider ID is the same as the SPID of the currently active SV. 3. Verify that the current date is prior to the NPA-NXX-X effective date.

		• subscriptionNewCurrentSP • subscriptionOldSP • subscriptionNewSP-DueDate (seconds set to zeros) • subscriptionLNPType • subscriptionPortToOriginal-SPSwitch • subscriptionTimerType – if supported by the Service Provider SOA • subscriptionBusinessType – if supported by the Service Provider SOA • subscriptionNewSPMediumTimerIndicator – if supported by the Service Provider SOA • subscriptionLRN • subscriptionSVType – if supported by the Service Provider SOA • subscriptionCLASS-DPC • subscriptionCLASS-SSN • subscriptionLIDB-DPC • subscriptionLIDB-SSN • subscriptionCNAM-DPC • subscriptionCNAM-SSN • subscriptionISVM-DPC • subscriptionISVM-SSN • subscriptionWSMSC-DPC - if supported by the Service Provider SOA • subscriptionWSMSC-SSN - if supported by the Service Provider SOA • The following attributes are optional: subscriptionEndUserLocationValue • subscriptionEndUserLocationType • subscriptionBillingId • subscriptionOptionalData – all elements supported by the Service Provider SOA		
2.	NPAC	NPAC SMS issues an M-CREATE Request to itself to create the subscriptionVersionNPAC object (subscription version): • The subscription version status is set to 'pending'. • The subscriptionCreationTimeStamp, and	NPAC	NPAC SMS issues an M-CREATE Response to itself.

		subscriptionModifiedTimeStamp are set.		
3.	NPAC	NPAC SMS issues an M-EVENT-REPORT objectCreation in CMIP (or VOCN – SvObjectCreationNotification in XML) to the Old Service Provider SOA including the following information: • subscriptionTN • subscriptionOldSP • subscriptionNewCurrentSP • subscriptionNewSP-CreationTimeStamp • subscriptionNewSP-DueDate • subscriptionNewSPMediumTimerIndicator – if supported by the Service Provider SOA • subscriptionVersionStatus • indicating this subscription version has been created on the NPAC SMS.	SP	Old Service Provider SOA receives the objectCreation from the NPAC SMS.
4.	SP	Old Service Provider SOA sends an M-EVENT-REPORT Confirmation in CMIP (or NOTR – NotificationReply in XML) to the NPAC SMS.	NPAC	NPAC SMS receives the Confirmation from the Old Service Provider SOA.
5.	NPAC	NPAC SMS issues an M-EVENT-REPORT objectCreation in CMIP (or VOCN – SvObjectCreationNotification in XML) to the New Service Provider SOA including the following information: • subscriptionTN • subscriptionOldSP • subscriptionNewCurrentSP • subscriptionNewSP-CreationTimeStamp • subscriptionNewSP-DueDate • subscriptionNewSPMediumTimerIndicator – if supported by the Service Provider SOA • subscriptionVersionStatus • indicating this subscription version has been created on the NPAC SMS.	SP	New Service Provider SOA receives the objectCreation from the NPAC SMS.
6.	SP	New Service Provider SOA sends an M-EVENT-REPORT Confirmation in CMIP (or NOTR – NotificationReply in XML) to the NPAC SMS.	NPAC	NPAC SMS receives the Confirmation from the New Service Provider SOA.
7.	NPAC	NPAC Personnel perform a Subscription Version Query.	NPAC	NPAC Personnel verify that the Subscription Version exists on the NPAC SMS.

8.	SP – optional	Service Provider Personnel perform a local query for the Subscription Version.	SP	1. On the SOA, verify that the Subscription Version exists with an empty Failed SP List. 2. On the LSMS, verify that the Subscription Version exists with a status of 'active'.
9.	SP – conditional	Service Provider Personnel perform an NPAC query for the Subscription Version.	SP	Verify that the Subscription Version exists with a status of 'active' and an empty Failed SP List on the NPAC SMS.
10.	NPAC	NPAC Personnel perform a full audit for the Subscription Version activated during this test case.	NPAC	Using the Audit Results Log verify that no updates were issued as a result of performing this audit. If any updates were sent the LSMS fails this test case.

A. TEST IDENTITY

Test Case Number:	**6.2.16**	**SUT Priority:**	**SOA LTI**	N/A
			SOA	C
			LSMS	O
Objective:	SOA – Service Provider Personnel submit an Activate request for a 'pending', Inter-Service Provider, Port-to-Original Subscription Version, none of the LSMSs that are accepting downloads for that NPA-NXX respond resulting in a failure – Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR5-68.1, RR5-68.2, RR5-68.3, RR5-68.4, RR5-69, RR5-70
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.5.1.17.1 Subscription Version Port-To-Original of a Ported Pooled TN Activation by SOA B.5.1.17.4 Subscription Version Create Port-To-Original of a Pool TN: Failure to All Local SMSs B.5.1.17.5 Updates to NPAC SMS after Failure of Port-To-Original Broadcast for a Pooled TN

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. If the Service Provider under test is not certifying an LSMS also, use LSMS simulators to create the failure scenario in this test case.
Prerequisite SP Setup:	Verify that a 'pending' Port-to-Original Subscription Version exists for a Pooled, Ported TN that can be activated.

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	1. Using the SOA, the Block Holder Service Provider Personnel submit an Inter-Service Provider, Port-To-Original Activate request to the NPAC SMS for a pooled TN that has been subsequently ported away. 2. The Service Provider SOA submits an M-ACTION Request subscriptionVersionActivate in CMIP (or ACTQ – ActivateRequest in XML) to the NPAC SMS lnpSubscription object to activate the 'pending' Subscription Version by specifying the subscription version ID, and subscription version TN.	NPAC	The NPAC SMS receives the Request from the SOA.

2.	NPAC	The NPAC SMS issues an M-SET Request to itself to set the subscriptionVersionStatus for SV1 to 'sending' as well as set the subscriptionBroadcastTimeStamp and subscriptionModifiedTimeStamp to the current date and time. (SV1 is the currently 'active' subscription version for this TN that exists on the NPAC SMS).	NPAC	The NPAC SMS receives the M-SET Request for SV1 and issues an M-SET Response for SV1 to itself.
3.	NPAC	The NPAC SMS issues an M-SET Request to itself to set the subscriptionVersionStatus for SV2 to 'sending', as well as set the subscriptionBroadcastTimeStamp and subscriptionModifiedTimeStamp to the current date and time. (SV2 is the currently 'pending' subscription version for this TN that exists on the NPAC SMS).	NPAC	The NPAC SMS receives the M-SET Request for SV2 and issues an M-SET Response for SV2 to itself.
4.	NPAC	1. The NPAC SMS issues an M-CREATE Request to itself in order to create a Subscription Version with LNP Type set to 'POOL' for the NPA-NXX-X Service Provider. 2. The NPAC SMS sets the subscriptionVersionStatus to 'sending' for this Subscription Version. This Subscription Version is referred to as SV3. 3. The NPAC SMS also sets the subscriptionActivationTimeStamp, subscriptionCreationTimeStamp, subscriptionBroadcastTimeStamp and subscriptionModifiedTimeStamp to the current date and time for SV3. All routing information is populated from the respective numberPoolBlock that exists on the NPAC SMS.	NPAC	The NPAC SMS receives the M-CREATE Request for SV3 and issues an M-CREATE Response for SV3 to itself.
5.	NPAC	The NPAC SMS issues an M-ACTION Response subscriptionVersionActivate in CMIP (or ACTR – ActivateReply in XML) back to the Block Holder Service Provider (New Service Provider) SOA.	SP	The New Service Provider SOA receives the Response from the NPAC SMS.
6.	NPAC	1. The NPAC SMS issues an M-DELETE Request subscriptionVersion SV1 in CMIP (or SVDD – SvDeleteDownload in XML) to	SP	1. The NPAC SMS will wait for all responses for a tunable amount of time and will retry (with an appropriate message) within the tunable amount of time. 2. All LSMSs in the region that are accepting downloads for this NPA-NXX either do not respond or issue an M-

		all LSMSs in the region that are accepting downloads for this NPA-NXX.		DELETE Error Response (or DNLR - DownloadReply) subscriptionVersion for SV1 back to the NPAC SMS.
7.	NPAC	The NPAC SMS issues an M-SET Request for SV3 to itself to set the subscriptionVersionStatus to 'failed' as well as set the subscriptionModifiedTimeStamp to the current date and time for SV3.	NPAC	The NPAC SMS receives the M-SET Request for SV3 and issues an M-SET Response for SV3.
8.	NPAC	The NPAC SMS issues an M-SET Request for SV1 to itself to set the subscriptionVersionStatus to 'active' as well as set the subscriptionModifiedTimeStamp to the current date and time for SV1.	NPAC	The NPAC SMS receives the M-SET Request for SV1 and issues an M-SET Response for SV1.
9.	NPAC	The NPAC SMS issues an M-SET Request for SV2 to itself to set the subscriptionVersionStatus to 'failed' as well as update the subscriptionVersionFailedSP-List to contain all the LSMSs in the region that are accepting downloads for this NPA-NXX (all LSMSs that failed to successfully respond to the NPAC requests) and set the subscriptionModifiedTimeStamp to the current date and time for SV2.	NPAC	The NPAC SMS receives the M-SET Request for SV2 and issues an M-SET Response for SV2.
10.	NPAC	The NPAC SMS issues an M-EVENT-REPORT subscriptionVersionStatusAttributeValueChange in CMIP (or VATN - SvAttributeValueChangeNotification in XML) to the Old Service Provider SOA to set the subscriptionVersionStatus to 'active' for SV1.	SP	The Old Service Provider SOA issues an M-EVENT-REPORT Confirmation in CMIP (or NOTR – NotificationReply in XML) for SV1.
11.	NPAC	The NPAC SMS issues an M-EVENT-REPORT subscriptionVersionStatusAttributeValueChange in CMIP (or VATN - SvAttributeValueChangeNotification in XML) to the Old Service Provider SOA to set the subscriptionVersionStatus to 'failed' for SV2.	SP	The Old Service Provider SOA issues an M-EVENT-REPORT Confirmation in CMIP (or NOTR – NotificationReply in XML) for SV2.

12.	NPAC	The NPAC SMS issues an M-EVENT-REPORT subscriptionVersionStatusAttributeValueChange in CMIP (or VATN - SvAttributeValueChangeNotification in XML) to the New Service Provider (Block Holder) SOA to set the subscriptionVersionStatus to 'failed' and update the subscriptionVersionFailedSP-List to contain all the LSMSs in the region that are accepting downloads for this NPA-NXX for SV2.	SP	The New Service Provider (Block Holder) SOA issues an M-EVENT-REPORT Confirmation in CMIP (or NOTR – NotificationReply in XML) for SV2.
13.	NPAC	NPAC Personnel perform a query for the Subscription Version (SV2).	NPAC	NPAC Personnel verify that the Subscription Version with LNP Type set to 'POOL' and status set to 'failed' and a Failed SP List that contains all LSMSs in the region, exists on the NPAC SMS.
14.	SP – Optional	Service Provider Personnel perform a local query for the Subscription Version (SV2).	SP	On the SOA, verify that SV2 exists with a Failed SP List that reflects the Service Providers that did not successfully process the Activate request for this Test Case.
15.	SP – Conditional	Service Provider Personnel perform an NPAC SMS query for the Subscription Version (SV2).	SP	Verify that the Subscription Version with LNP Type set to 'POOL' has the status set to 'failed' on the NPAC SMS.

SV1 is the original 'active', pooled, ported Subscription Version.
SV2 is the 'pending' Subscription Version with the Port-to-Original flag set to 'TRUE'.
SV3 is the pool reinstatement Subscription Version with LNP Type set to 'POOL', that reinstates default routing to the Block Holder.

10.7 Subscription Version Modify Test Cases:

A. TEST IDENTITY

Test Case Number:	**6.3.1**	***SUT PRIORITY:***	**SOA LTI**	N/A
			SOA	C
			LSMS	O
Objective:	SOA - Service Provider Personnel submit a request to modify a Subscription Version with LNP Type set to 'POOL' – Error			

B. REFERENCES

NANC Change Order Revision Number:		***CHANGE ORDER NUMBER(S):***	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR5-84
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.5.2.1 Subscription Version Modify Active Version Using M-ACTION by a Service Provider SOA

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	Verify that an 'active' Subscription Version exist with LNP Type set to 'POOL'.
Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	1. Using the SOA, the Block Holder Service Provider Personnel submit a request to the NPAC SMS to modify an 'active' Subscription Version of LNP Type set to 'POOL'. The request must specify the TN and the version status or the version ID of the Subscription Version to be modified and the data to be modified. 2. The following attributes must be specified: • subscriptionLRN • subscriptionCLASS-DPC • subscriptionCLASS-SSN • subscriptionLIDB-DPC • subscriptionLIDB-SSC • subscriptionCNAM-DPC • subscriptionCNAM-SSN • subscriptionISVM-DPC • subscriptionISVM-SSN	NPAC	The NPAC SMS receives the Request and determines that the specified Subscription Version for modification is of LNP Type set to 'POOL'. **(This violates system requirements.)**

		• subscriptionWSMSC-DPC – if supported by the Service Provider SOA • subscriptionWSMSC-SSN – if supported by the Service Provider SOA 3. The Service Provider SOA submits an M-ACTION Request subscriptionVersionModify in CMIP (or MODQ – ModifyRequest in XML) to the NPAC SMS lnpSubscription object to update the 'active' version.		
2.	NPAC	The NPAC SMS issues an M-ACTION Failure Response in CMIP (or MODR – ModifyReply in XML) back to the Current Service Provider SOA indicating a request error.	SP	The Current Service Provider SOA receives the Failure Response from the NPAC SMS.
3.	NPAC	NPAC Personnel perform a query for the Subscription Version.	NPAC	NPAC Personnel verify that the Subscription Version was not modified on the NPAC SMS.
4.	SP – Optional	Service Provider Personnel perform a local query for the Subscription Version.	SP	1. From the SOA, verify that the Subscription Version was not modified on the NPAC SMS. 2. From the LSMS, verify that the Subscription Version was not modified on the NPAC SMS.
5.	SP – Conditional	Service Provider Personnel perform an NPAC SMS query for the Subscription Version.	SP	1. From the SOA, verify that the Subscription Version was not modified on the NPAC SMS. 2. From the LSMS, verify that the Subscription Version was not modified on the NPAC SMS.

10.8 Subscription Version Delete Test Cases:

A. TEST IDENTITY

Test Case Number:	**6.4.1**	***SUT PRIORITY:***	**SOA LTI**	N/A
			SOA	C
			LSMS	O
Objective:	SOA - Service Provider Personnel attempt to delete (submit a disconnect request) a Subscription Version with LNP Type set to 'POOL' - Error			

B. REFERENCES

NANC Change Order Revision Number:		***CHANGE ORDER NUMBER(S):***	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR5-84
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.5.4.1 Subscription Version Immediate Disconnect

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	Verify that an 'active' Subscription Version of LNP Type set to 'POOL' exists, Service Provider Personnel should attempt to delete this Subscription Version.
Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	1. Using the SOA, Block Holder Service Provider Personnel submit an Immediate Disconnect Request to the NPAC SMS for a Subscription Versions of LNP Type set to 'POOL'. The request must specify the Subscription Version ID, or Subscription Version TN and also has future dated the subscriptionEffectiveReleaseDate and the subscriptionCustomerDisconnectDate. 2. The Current Service Provider SOA system issues an M-ACTION Request subscriptionVersionDisconnect in CMIP (or DISQ – DisconnectRequest in XML) to the NPAC SMS.	NPAC	The NPAC SMS receives the Request from the Current Service Provider SOA and determines this request is for a Subscription Version of LNP Type set to 'POOL'. **(This violates system requirements.)**
2.	NPAC	The NPAC SMS issues an M-ACTION Failure Response in CMIP (or DISR – DisconnectReply in XML) to the Current Service Provider SOA indicating a request error.	SP	The Block Holder Service Provider SOA receives the Failure Response from the NPAC SMS.

3.	NPAC	NPAC Personnel perform a query for the Subscription Version.	NPAC	NPAC Personnel verify that the Subscription Version was not deleted on the NPAC SMS.
4.	SP – Optional	Service Provider Personnel perform a local query for the Subscription Version.	SP	1. On the Block Holder SOA, verify that the Subscription Version was not deleted. 2. On the LSMS, verify that the Subscription Version is part exists as part of the 1K Block.
5.	SP – Conditional	Service Provider Personnel perform an NPAC SMS query for the Subscription Version.	SP	1. From the Block Holder SOA, verify that the Subscription Version with LNP Type set to 'POOL' exists on the NPAC SMS. 2. From the LSMS, verify that the Subscription Version is part exists as part of the 1K Block, with LNP Type set to 'POOL' on the NPAC SMS.

10.9 Subscription Version Disconnect Test Cases:

A. TEST IDENTITY

Test Case Number:	**6.5.1**	**SUT Priority:**	**SOA LTI**	N/A
			SOA	C
			LSMS	R
Objective:	SOA - Service Provider Personnel submit a Subscription Version Immediate Disconnect request for a TN that is part of a 1K Block, where the Subscription Version LNP Type is set to 'LISP', after the Block existence – Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-183, RR3-184, RR5-63, RR5-64, RR5-65, RR5-66, RR5-67.1, RR5-67.2, RR5-67.3
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.5.4.7.1 SOA Initiates Successful Disconnect Request of Ported Pooled TN B.5.4.7.2 Successful Broadcast of Disconnect for a Ported Pooled TN After Block Activation

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	
Prerequisite SP Setup:	Verify that the TN to be used to disconnect is part of a 1K Block (a pooled TN) and currently has is an 'active' Subscription Version with LNP Type is set to 'LISP'.

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	1. Using the SOA, the Current Service Provider Personnel submit a Subscription Version Immediate Disconnect Request to the NPAC SMS. The request specifies either the Subscription Version ID, or Subscription Version TN. 2. The Current Service Provider SOA issues an M-ACTION Request subscriptionVersionDisconnect in CMIP (or DISQ – DisconnectRequest in XML) for SV1 to the NPAC SMS. (SV1 is the currently 'active' Subscription Version that will be disconnected.)	NPAC	The NPAC SMS receives the Request for SV1.

2.	NPAC	The NPAC SMS issues an M-SET Request for SV1 to itself to set the subscriptionCustomerDisconnectDate according to the disconnect action for SV1. The NPAC SMS sets the subscriptionVersionStatus for SV1 to 'sending' and updates the subscriptionModifiedTimeStamp and the subscriptionBroadcastTimeStamp to the current date and time.	NPAC	The NPAC SMS receives the M-SET Request for SV1 and issues an M-SET Response for SV1 back to itself.
3.	NPAC	The NPAC SMS issues an M-CREATE Request for SV2 to itself and populates the default routing information from the numberPoolBlock object. The subscriptionVersionStatus for SV2 is set to 'sending'.	NPAC	The NPAC SMS receives the M-CREATE for SV2 and issues an M-CREATE Response for SV2 to itself.
4.	NPAC	The NPAC SMS issues an M-ACTION Response in CMIP (or DISR – DisconnectReply in XML) to the Current Service Provider SOA.	SP	The Current Service Provider SOA receives the Response for SV1 from the NPAC SMS.
5.	NPAC	The NPAC SMS issues an M-EVENT-REPORT subscriptionVersionDonorSP-CustomerDisconnectDate in CMIP (or VCDN – SvCustomerDisconnectDateNotification in XML) on SV1 to the Block Holder SOA.	SP	The Block Holder SOA issues an M-EVENT-REPORT Confirmation CustomerDisconnectDate in CMIP (or NOTR – NotificationReply in XML) for SV1 back to the NPAC SMS.
6.	NPAC	1. The NPAC SMS issues an M-DELETE Request in CMIP (or SVDD – SvDeleteDownload in XML) for SV1 to all LSMSs in the region that are accepting downloads for this NPA-NXX.	SP	All LSMSs that are accepting downloads for this NPA-NXX issue an M-DELETE Response in CMIP (or DNLR – DownloadReply in XML) for SV1 back to the NPAC SMS. These LSMSs will then proceed to process the delete for this Subscription Version and reinstate the default routing information contained in the respective numberPoolBlock object.
7.	NPAC	The NPAC SMS issues an M-SET Request for SV2 to itself to set the subscriptionVersionStatus to 'active' for SV2 and set the subscriptionModifiedTimeStamp and subscriptionActivateBroadcastSuccessTimeStamp (on the first successful LSMS response) to the current date and time.	NPAC	The NPAC SMS receives the M-SET Request for SV2 and issues an M-SET Response for SV2 to itself.
8.	NPAC	The NPAC SMS issues an M-SET Request for SV1 to itself to set the subscriptionVersionStatus to 'old' for SV1 and set the subscriptionModifiedTimeStamp and	NPAC	The NPAC SMS receives the M-SET Request for SV1 and issues an M-SET Response for SV1 to itself.

		subscriptionDisconnectCompleteTimeStamp to the current date and time.		
9.	NPAC	The NPAC SMS issues an M-EVENT-REPORT subscriptionVersionStatusAttributeValueChange in CMIP (or VATN – SvAttributeValueChangeNotification in XML) to the Current Service Provider SOA to update the subscriptionVersionStatus for SV1 to 'old'.	SP	The Current Service Provider SOA issues an M-EVENT-REPORT Confirmation in CMIP (or NOTR – NotificationReply in XML) back to the NPAC SMS.
10.	NPAC	NPAC Personnel perform a query for the Subscription Version.	NPAC	NPAC Personnel verify that an 'active' Subscription Version with LNP Type set to 'POOL' and an empty Failed SP List exists on the NPAC SMS.
11.	SP – Optional	Service Provider Personnel perform a local query for the Subscription Version.	SP	1. On the Block Holder SOA, verify that a Subscription Version with LNP Type 'POOL' exists with an empty Failed SP List. 2. On the LSMS, verify that the Subscription Version exists as part of the 1K Block.
12.	SP – Conditional	Service Provider Personnel perform an NPAC SMS query for the Subscription Version.	SP	1. From the Block Holder SOA, verify that a Subscription Version with LNP Type 'POOL' exists with an empty Failed SP List on the NPAC SMS. 2. From the LSMS, verify that the Subscription Version exists as part of the 1K Block on the NPAC SMS.
13.	NPAC	NPAC Personnel perform a full audit for the Subscription Version disconnected during this test case.	NPAC	Using the Audit Results Log verify that no updates were issued as a result of performing this audit. If any updates were sent the LSMS fails this test case.

A. TEST IDENTITY

Test Case Number:	**6.5.2**	**SUT Priority:**	**SOA LTI**	N/A
			SOA	C
			LSMS	O
Objective:	SOA - Service Provider Personnel submit a Subscription Version Deferred Disconnect request for a TN that is part of a 1K Block, where the Subscription Version LNP Type is set to 'LSPP', after the Block existence, and the NPAC SMS disconnects upon scheduled date and time - Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-183, RR3-184, RR5-63, RR5-64, RR5-65, RR5-66, RR5-67.1, RR5-67.2, RR5-67.3
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.5.4.2 Subscription Version Disconnect With Effective Release Date B.5.4.7.2 Successful Broadcast of Disconnect for a Ported Pooled TN After Block Activation

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	Use LSMS simulators when the Service Provider under test does not also have an LSMS to certify.
Prerequisite SP Setup:	Verify that the TN to be used to disconnect is part of a 1K Block (a pooled TN) and currently has an 'active' Subscription Version with LNP Type is set to 'LSPP'.

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	1. Using the SOA, current Service Provider Personnel submit a Subscription Version Deferred Disconnect Request (a disconnect request with an Effective Release Date specified) to the NPAC SMS. The request specifies either the Subscription Version ID, or the Subscription Version TN and also has future dated the subscriptionEffectiveReleaseDate and the subscriptionCustomerDisconnectDate. 2. The Current Service Provider SOA issues an M-ACTION Request subscriptionVersionDisconnect in CMIP (or DISQ – DisconnectRequest in XML) on	NPAC	The NPAC SMS receives the Request from the Current Service Provider SOA and determines the request is valid.

		SV1 to the NPAC SMS. SV1 is the currently 'active' Subscription Version that will be disconnected.		
2.	NPAC	1. The NPAC SMS issues an M-SET Request for SV1 to itself to set the subscriptionVersionStatus to 'disconnect-pending', update the subscription EffectiveReleaseDate and subscriptionCustomerDisconnectDate as specified by the request. 2. The NPAC SMS sets the subscriptionModifiedTimeStamp for SV1 to the current date and time.	NPAC	The NPAC SMS issues an M-SET Response to itself.
3.	NPAC	The NPAC SMS issues an M-ACTION Response in CMIP (or DISR – DisconnectReply in XML) to the Current Service Provider SOA.	SP	The Current Service Provider SOA receives the Response from the NPAC SMS.
4.	NPAC	The NPAC SMS issues an M-EVENT-REPORT subscriptionVersionStatusAttributeValueChange in CMIP (or VATN – SvAttributeValueChangeNotification in XML) to the Current Service Provider SOA for SV1 to set the subscriptionVersionStatus to 'disconnect-pending' for SV1.	SP	The Current Service Provider SOA issues an M-EVENT-REPORT Confirmation in CMIP (or NOTR – NotificationReply in XML) back to the NPAC SMS.
5.	NPAC	The NPAC SMS issues an M-EVENT-REPORT DonorDisconnectDate in CMIP (or VCDN – SvCustomerDisconnectDateNotification in XML) back to the Block Holder SOA.	SP	The Block Holder SOA issues an M-EVENT-REPORT Confirmation in CMIP (or NOTR – NotificationReply in XML) back to the NPAC SMS.
6.	NPAC	When the subscriptionEffectiveReleaseDate arrives, the NPAC SMS issues an M-DELETE Request in CMIP (or SVDD – SvDeleteDownload in XML) for SV1 to all LSMSs in the region that are accepting downloads for this NPA-NXX.	SP	All LSMSs in the region that are accepting downloads for this NPA-NXX, issue an M-DELETE Response in CMIP (or DNLR – DownloadReply in XML) back to the NPAC SMS. The LSMSs then process the delete request on the local system.
7.	NPAC	The NPAC SMS issues an M-SET Request for SV2 to itself to set the subscriptionVersionStatus to 'active' and set the subscriptionVersionModifiedTimeStamp to the current date and time and the	NPAC	The NPAC SMS issues an M-SET Response for SV2 to itself.

		subscriptionActivateBroadcastSuccessTimeStamp (on the first successful LSMS response).		
8.	NPAC	The NPAC SMS issues an M-SET Request for SV1 to itself and updates the subscriptionVersionStatus to 'old' and set the subscriptionVersionModifiedTimeStamp and subscriptionDisconnectCompleteTimeStamp to the current date and time.	NPAC	The NPAC SMS issues an M-SET Response for SV1 to itself.
9.	NPAC	The NPAC SMS issues an M-EVENT-REPORT subscriptionVersionStatusAttributeValueChange in CMIP (or VATN – SvAttributeValueChangeNotification in XML) for SV1 to the Current Service Provider SOA to set the Subscription Version Status to 'old'.	SP	The Current Service Provider SOA issues an M-EVENT-REPORT Confirmation in CMIP (or NOTR – NotificationReply in XML) for SV1 back to the NPAC SMS.
10.	NPAC	NPAC Personnel perform a query for the Subscription Version.	NPAC	NPAC Personnel verify that an 'active' Subscription Version with LNP Type set to 'POOL' and an empty Failed SP List exists on the NPAC SMS.
11.	SP – Optional	Service Provider Personnel perform a local query for the Subscription Version.	SP	1. On the Block Holder SOA, verify that a Subscription Version with LNP Type 'POOL' exists with an empty Failed SP List. 2. On the (under test) LSMS, verify that the Subscription Version exists as part of the 1K Block.
12.	SP – Conditional	Service Provider Personnel perform an NPAC SMS query for the Subscription Version.	SP	1. From the Block Holder SOA, verify that a Subscription Version with LNP Type 'POOL' exists with an empty Failed SP List on the NPAC SMS. 2. From the (under test) LSMS, verify that the Subscription Version exists as part of the 1K Block on the NPAC SMS.
13.	NPAC	NPAC Personnel perform a full audit for the Subscription Version disconnected during this test case.	NPAC	Using the Audit Results Log verify that no updates were issued as a result of performing this audit. If any updates were sent the LSMS fails this test case.

NOTE: If a Service Provider LSMS is not under test during this test case, the LSMS verification steps for steps 11 and 12 do not need to be completed.

A. TEST IDENTITY

Test Case Number:	**6.5.3**	**SUT Priority:**	**SOA LTI**	N/A
			SOA	C
			LSMS	O
Objective:	SOA - Service Provider Personnel submit a Subscription Version Deferred Disconnect request for a TN that is part of a 1K Block, one or more of the LSMSs that are accepting downloads for that NPA-NXX do not respond resulting in a partial failure – Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR5-69
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.5.4.2 Subscription Version Disconnect with Effective Release DateB.5.4.7.6 Subscription Version Disconnect of a Ported Pooled TN: Partial Failure to Local SMS B.5.4.7.7 Subscription Version Disconnect of a Ported Pooled TN Partial Failure Broadcast NPAC SMS Updates

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Use simulators to create the partial failure scenario unless you are setting up an LSMS under test for 6.5.4 or 6.5.5.
Prerequisite SP Setup:	Verify that a ported, pooled Subscription Version exists that can be disconnected.

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	1. Using the SOA, Service Provider Personnel submit a Subscription Version Deferred Disconnect request on behalf of the Current Service Provider to the NPAC SMS. 2. The SOA issues an M-ACTION Request subscriptionVersionDisconnect in CMIP (or DISQ – DisconnectRequest in XML) for SV1 to the NPAC SMS.	NPAC	The NPAC SMS receives the Subscription Version Deferred Disconnect M-ACTION Request from the Current Service Provider SOA.

2.	NPAC	The NPAC SMS issues an M-SET Request for SV1 to itself to set the subscriptionCustomerDisconnectDate according to the disconnect action. The NPAC SMS also sets the subscriptionVersionStatus for SV1 to 'sending' and updates the subscriptionModifiedTimeStamp and the subscriptionEffectiveReleaseTimeStamp accordingly.	NPAC	The NPAC SMS issues an M-SET Response for SV1 to itself.
3.	NPAC	The NPAC SMS issues an M-ACTION Response subscriptionVersionDisconnect in CMIP (or DISR – DisconnectReply in XML) for SV1 to the Current Service Provider SOA.	SP	The Current Service Provider SOA receives the Subscription Version Deferred Disconnect M-ACTION Response from the NPAC SMS.
4.	NPAC	The NPAC SMS issues an M-EVENT-REPORT subscriptionVersionStatusAttributeValueChange in CMIP (or VATN – SvAttributeValueChangeNotification in XML) to the Current Service Provider SOA to set the subscriptionVersionStatus to 'disconnect-pending'.	SP	The Current Service Provider SOA receives the M-EVENT-REPORT from the NPAC SMS and issues an M-EVENT-REPORT Confirmation in CMIP (or NOTR – NotificationReply in XML) back to the NPAC SMS.
5.	NPAC	The NPAC SMS issues an M-EVENT-REPORT DonorDisconnectDate in CMIP (or VCDN – SvCustomerDisconnectDateNotification in XML) back to the Block Holder SOA.	SP	The Block Holder SOA issues an M-EVENT-REPORT Confirmation in CMIP (or NOTR – NotificationReply in XML) back to the NPAC SMS.
6.	NPAC	When the subscriptionEffectiveReleaseDate arrives, the NPAC SMS issues an M-DELETE Request in CMIP (or SVDD – SvDeleteDownload in XML) for SV1 to all LSMSs in the region that are accepting downloads for this NPA-NXX.	SP/NPAC	1. All LSMSs in the region that are accepting downloads for this NPA-NXX receives the Subscription Version Delete Request (M-DELETE Request) for SV1. 2. The NPAC SMS waits for response from all LSMSs accepting downloads for this NPA-NXX. 3. At least one of the LSMSs issues a Subscription Version Delete Response (M-DELETE Response) in CMIP (or DNLR – DownloadReply in XML) for SV1 back to the NPAC SMS. 4. The NPAC SMS retries any LSMS (SV1 to LSMSs) if they have not responded within a tunable amount of time. 5. At least one of the LSMSs in the region DO NOT respond with a successful message (all LSMSs have failed the requests).
7.	NPAC	The NPAC SMS issues an M-SET Request to itself for SV2 to set the subscriptionVersionStatus to 'partial failure', and set the subscriptionModifiedTimeStamp to the current date and time (upon first successful LSMS Response).	NPAC	The NPAC SMS receives the M-SET Request and issues an M-SET Response to itself for SV2.

8.	NPAC	The NPAC SMS issues an M-SET Request to itself for SV1 to set the subscriptionVersionStatus to 'old', and update the subscriptionVersionFailedSP-List with the SPID and name of the LSMSs that failed the requests and set the subscriptionModifiedTimeStamp and subscriptionDisconnectCompleteTimeStamp to the current date and time. (The Service Provider LSMSs listed in the FailedSP-List should those that failed SV1 and SV2.)	NPAC	The NPAC SMS issues an M-SET Response to itself for SV1.
9.	NPAC	The NPAC SMS issues an M-EVENT-REPORT subscriptionVersionStatusAttributeValueChange in CMIP (or VATN – SvAttributeValueChangeNotification in XML) to the Current Service Provider SOA or SOA LTI to set the subscriptionVersionStatus to 'old' along with the failedSP-List for SV1.	SP	The Current Service Provider SOA or SOA LTI issues an M-EVENT-REPORT Confirmation in CMIP (or NOTR – NotificationReply in XML) back to the NPAC SMS.
10.	NPAC	NPAC Personnel perform a query for the Subscription Version.	NPAC	NPAC Personnel verify that a Subscription Version with a status of 'partial failure' and a Failed SP List that reflects all Service Provider LSMSs that did not successfully respond to the request exists on the NPAC SMS.
11.	SP – Optional	Service Provider Personnel perform a local query for the Subscription Version.	SP	On the Block Holder SOA, verify that a Subscription Version with a status of 'partial failure' exists with a Failed SP List that reflects all Service Providers that did not successfully respond to the request.
12.	SP – Conditional	Service Provider Personnel perform an NPAC SMS query for the Subscription Version.	SP	From the Block Holder SOA, verify that SV1 exists with a Failed SP List that reflects all Service Providers that did not successfully respond to the request on the NPAC SMS and the status of the Subscription Version is 'old.'

A. TEST IDENTITY

Test Case Number:	**6.5.4**	***SUT PRIORITY:***	**SOA LTI**	N/A
			SOA	O
			LSMS	R
Objective:	NPAC OP GUI - NPAC Personnel resend a 'failed' disconnect request – Success			

B. REFERENCES

NANC Change Order Revision Number:		***CHANGE ORDER NUMBER(S):***	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR5-80, RR5-81.1, RR5-81.2
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.5.4.7.8 Subscription Version Disconnect of a Ported Pooled TN NPAC SMS Broadcast Successful Resend B.5.4.7.9 Subscription Version Disconnect of a Ported Pooled TN Resend Successful NPAC SMS Updates B.5.4.5 Subscription Version Disconnect: Resend Successful to Local SMS

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify that a failed Disconnect request for a ported pooled TN exists. 2. Verify that the system under test is the system that caused the failure before, is configured/connected to the NPAC SMS in order to successfully process the resend request.
Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	NPAC	1. Using the NPAC OP GUI, NPAC Personnel resend a failed disconnect for a ported, pooled Subscription Version. 2. The NPAC SMS issues an M-SET Request subscriptionVersionNPAC to itself to set the Subscription Version status for SV1 to 'sending' and update the subscriptionModifiedTimeStamp to the current date and time.	NPAC	The NPAC SMS issues an M-SET Response back to itself.
2.	NPAC	The NPAC SMS issues an M-SET Request subscriptionVersionNPAC to itself to set the Subscription Version status for SV2 to 'sending' and update the	NPAC	The NPAC SMS issues an M-SET Response back to itself.

		subscriptionModifiedTimeStamp to the current date and time.		
3.	NPAC	The NPAC SMS issues an M-DELETE Request in CMIP (or SVDD – SvDeleteDownload in XML) for SV1 to the LSMSs that is in the FailedSP-List (previously failed the disconnect request).	SP/ NPAC	1. The LSMS receives the Subscription Version Delete Request for SV1. 2. The NPAC SMS waits for response from the LSMS. 3. The NPAC SMS retries the LSMS (SV1 to LSMSs) if they have not responded within a tunable amount of time. 4. The LSMS responds with a successful message in CMIP (or DNLR –DownloadReply in XML).
4.	NPAC	The NPAC SMS issues an M-SET Request to itself to update the status of SV2 to 'active' and set the subscriptionModifiedTimeStamp to the current date and time.	NPAC	The NPAC SMS issues an M-SET Response back to itself.
5.	NPAC	The NPAC SMS issues an M-SET Request to itself to update the status of SV1 to 'old' and set the failedSP-List to be empty, as well as set the subscriptionModifiedTimeStamp to the current date and time.	NPAC	The NPAC SMS issues an M-SET Response back to itself.
6.	NPAC	The NPAC SMS issues an M-EVENT-REPORT subscriptionVersionStatusAttributeValueChange in CMIP (or VATN – SvAttributeValueChangeNotification in XML) to the Current Service Provider SOA to set the status of SV1 to 'old' with an empty FailedSP-List.	SP	The Current Service Provider SOA issues an M-EVENT-REPORT Confirmation in CMIP (or NOTR – NotificationReply in XML) back to the NPAC SMS.
7.	NPAC	NPAC Personnel perform a query for the Subscription Version.	NPAC	NPAC Personnel verify that an 'active' Subscription Version with LNP Type set to 'POOL' exists on the NPAC SMS.
8.	SP – Optional	Service Provider Personnel perform a local query for the Subscription Version.	SP	1. On the Block Holder SOA, verify that a Subscription Version exists. 2. For the LSMS under test, verify that the Subscription Version exists as part of the 1K Block.
9.	SP – Conditional	Service Provider Personnel perform an NPAC SMS query for the Subscription Version.	SP	1. From the Block Holder SOA, verify that a Subscription Version exists. 2. For the LSMS under test, verify that the Subscription Version exists as part of the 1K Block on the NPAC SMS.
10.	NPAC	NPAC Personnel perform a full audit for the Subscription Version resent during this test case.	NPAC	Using the Audit Results Log verify that there were no updates issues as a result of performing this audit. If updates were made, the LSMS fails this test case.

A. TEST IDENTITY

Test Case Number:	**6.5.5**	**SUT Priority:**	**SOA LTI**	N/A
			SOA	O
			LSMS	R
Objective:	NPAC OP GUI - NPAC Personnel resend a 'partial failure' disconnect request and all LSMSs respond – Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR5-80, RR5-81.1, RR5-81.2
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.5.4.7.12 Subscription Version Disconnect of a Ported Pooled TN: Resend Partial Failure to Local SMS 4.7.1 NPAC SMS Initiates Resend of a Partial failure Disconnect of a Ported Pooled TN B.5.4.4 SubscriptionVersion Disconnect: Partial Failure to Local SMS

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify that a ported, pooled Subscription Version that partially failed a disconnect request exists. 2. Verify that at least 4 LSMSs are connected to the NPAC SMS (1 LSMS should be the one listed in the Failed SP List for this Subscription Version). 3. Configure the one discrepant LSMS in order to receive downloads for this NPA-NXX.
Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	NPAC	1. Using the NPAC OP GUI, NPAC Personnel resend a partial failure disconnect for a ported, pooled Subscription Version. 2. The NPAC SMS issues an M-SET Request subscriptionVersionNPAC to itself to set the Subscription Version status for SV1 to 'sending' and update the subscriptionModifiedTimeStamp to the current date and time.	NPAC	The NPAC SMS issues an M-SET Response back to itself.

2.	NPAC	The NPAC SMS issues an M-SET Request subscriptionVersionNPAC to itself to set the Subscription Version status for SV2 to 'sending' and update the subscriptionModifiedTimeStamp to the current date and time.	NPAC	The NPAC SMS issues an M-SET Response back to itself.
3.	NPAC	The NPAC SMS issues an M-DELETE Request in CMIP (or SVDD – SvDeleteDownload in XML) for SV1 to the one LSMS that was in the FailedSP-List (previously failed the disconnect request).	SP	1. The one discrepant LSMS in the region that is accepting downloads for this NPA-NXX receives the Subscription Version Delete Request for SV1. 2. The one discrepant LSMS in the region responds with a successful message in CMIP (or DNLR – DownloadReply in XML).
4.	NPAC	The NPAC SMS issues an M-SET Request to itself to update the status of SV2 to 'active' and set the subscriptionModifiedTimeStamp to the current date and time.	NPAC	The NPAC SMS issues an M-SET Response back to itself.
5.	NPAC	The NPAC SMS issues an M-SET Request to itself to update the status of SV1 to 'old' and set the subscriptionModifiedTimeStamp to the current date and time.	NPAC	The NPAC SMS issues an M-SET Response back to itself.
6.	NPAC	The NPAC SMS issues an M-EVENT-REPORT subscriptionVersionStatusAttributeValueChange in CMIP (or VATN – SvAttributeValueChangeNotification in XML) to the Current Service Provider SOA to set the status of SV1 to 'old'.	SP	The Current Service Provider SOA issues an M-EVENT-REPORT Confirmation in CMIP (or NOTR – NotificationReply in XML) back to the NPAC SMS.
7.	NPAC	NPAC Personnel perform a query for the Subscription Version.	NPAC	NPAC Personnel verify that an 'active' Subscription Version with LNP Type set to 'POOL' exists on the NPAC SMS.
8.	SP – Optional	Service Provider Personnel perform a local query for the Subscription Version.	SP	1. On the Block Holder SOA, verify that a Subscription Version exists with an empty Failed SP List. 2. On the LSMS, verify that the Subscription Version exists as part of the 1K Block.
9.	SP – Conditional	Service Provider Personnel perform an NPAC SMS query for the Subscription Version.	SP	1. From the Block Holder SOA, verify that a Subscription Version exists with an empty Failed SP List on the NPAC SMS. 2. From the LSMS, verify that the Subscription Version exists as part of the 1K Block on the NPAC SMS.
10.	NPAC	NPAC Personnel perform a full audit for the Subscription Version resent during this test case.	NPAC	Using the Audit Results Log verify that no updates were issued as a result of performing this audit. If any updates were sent the LSMS fails this test case.

A. TEST IDENTITY

Test Case Number:	**6.5.6**	**SUT Priority:**	**SOA LTI**	N/A
			SOA	C
			LSMS	O
Objective:	SOA - Service Provider Personnel submit a Subscription Version Immediate Disconnect request for a TN that is part of a 1K Block, after the Block Activation Date, none of the LSMSs that are accepting downloads for that NPA-NXX respond resulting in a failure – Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR5-69
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	4.1 Subscription Version Immediate Disconnect After the Activation of the Number Pool Block B.5.4.7.1 SOA Initiates Successful Disconnect Request of Ported Pooled TN 4.3 Subscription Version Disconnect After Block Activation: Failure to Local SMS B.5.4.7.4 Subscription Version Disconnect of a Ported Pooled TN After Block Activation: Failure to Local SMS B.5.4.7.5 Subscription Version Disconnect for a Ported Pooled TN Broadcast Failure NPAC SMS Updates

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	Use LSMS simulators to create the failure scenario for this test case.
Prerequisite SP Setup:	Verify that a ported, pooled Subscription Version exists that can be disconnected.

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	1. Using the SOA, Service Provider Personnel submit a Subscription Version Immediate Disconnect request on behalf of the Current Service Provider to the NPAC SMS. 2. The SOA issues an M-ACTION Request subscriptionVersionDisconnect in CMIP (or DISQ – DisconnectRequest in XML) for SV1 to the NPAC SMS.	NPAC	The NPAC SMS receives the Subscription Version Immediate Disconnect Request from the Current Service Provider SOA.

2.	NPAC	The NPAC SMS issues an M-SET Request for SV1 to itself to set the subscriptionCustomerDisconnectDate according to the disconnect action. The NPAC SMS also sets the subscriptionVersionStatus for SV1 to 'sending' and updates the subscriptionModifiedTimeStamp and the subscriptionBroadcastTimeStamp accordingly.	NPAC	The NPAC SMS issues an M-SET Response for SV1 to itself.
3.	NPAC	The NPAC SMS issues an M-CREATE Request for SV2 to itself and populates the default routing information from the numberPoolBlock object. The subscriptionVersionStatus for SV2 is set to 'sending'.	NPAC	The NPAC SMS receives the M-CREATE for SV2 and issues an M-CREATE Response for SV2 to itself.
4.	NPAC	The NPAC SMS issues an M-ACTION Response in CMIP (or DISR – DisconnectReply in XML)for SV1 to the Current Service Provider SOA.	SP	The Current Service Provider SOA receives the Subscription Version Immediate Disconnect Response from the NPAC SMS.
5.	NPAC	The NPAC SMS issues an M-EVENT-REPORT subscriptionVersionDonorSP-CustomerDisconnectDate in CMIP (or VCDN – SvCustomerDisconnectDateNotification in XML) on SV1 to the Block Holder SOA.	SP	The Block Holder SOA issues an M-EVENT-REPORT Confirmation CustomerDisconnectDate in CMIP (or NOTR – NotificationReply in XML) for SV1 back to the NPAC SMS.
6.	NPAC	The NPAC SMS issues an M-DELETE Request in CMIP (or SVDD – SvDeleteDownload in XML) for SV1 to all LSMSs in the region that are accepting downloads for this NPA-NXX.	SP	1. All LSMSs that are accepting downloads for this NPA-NXX receive the Subscription Version Delete Request for SV1. 2. The NPAC SMS waits for a response from all LSMSs accepting downloads for this NPA-NXX. 3. The NPAC SMS retries any LSMS (SV1 to LSMSs) if they have not responded within a tunable amount of time. 4. None of the LSMSs in the region respond with a successful message (all LSMSs have failed the requests).
7.	NPAC	The NPAC SMS issues an M-SET Request to itself for SV2 to set the subscriptionVersionStatus to 'failed', and set the subscriptionModifiedTimeStamp to the current date and time.	NPAC	The NPAC SMS receives the M-SET Request and issues an M-SET Response to itself for SV2.
8.	NPAC	The NPAC SMS issues an M-SET Request to itself for SV1 to set the subscriptionVersionStatus to 'active', and update the subscriptionVersionFailedSP-List with the SPID and name of all the LSMSs that failed the requests and set the	NPAC	The NPAC SMS receives the M-SET Request and issues an M-SET Response to itself for SV1.

		subscriptionModifiedTimeStamp to the current date and time.		
9.	NPAC	The NPAC SMS issues an M-EVENT-REPORT subscriptionVersionStatusAttributeValueChange in CMIP (or VATN – SvAttributeValueChangeNotification in XML) to the Current Service Provider SOA to set the subscriptionVersionStatus to 'active' for SV1, along with the failedSP-List for SV1.	SP	The Current Service Provider SOA receives the M-EVENT-REPORT from the NPAC SMS and issues an M-EVENT-REPORT Confirmation in CMIP (or VATN – SvAttributeValueChangeNotification in XML) back to the NPAC SMS.
10.	NPAC	NPAC Personnel perform a query for the Subscription Version.	NPAC	NPAC Personnel verify that a Subscription Version with a status of 'failed' and a Failed SP List that reflects all Service Providers that reflects all Service Providers that did not successfully respond to the request exists on the NPAC SMS.
11.	SP – Optional	Service Provider Personnel perform a local query for the Subscription Version.	SP	On the Block Holder SOA, verify that a Subscription Version with a status of 'partial failure' exists with a Failed SP List that reflects all Service Providers that did not successfully respond to the request.
12.	SP – Conditional	Service Provider Personnel perform an NPAC SMS query for the Subscription Version.	SP	From the Block Holder SOA, verify that a Subscription Version with LNP Type 'POOL' exists a Failed SP List that reflects all Service Providers that did not successfully respond to the request on the NPAC SMS.

10.10NPA Splits with Number Pooling

A. TEST IDENTITY

Test Case Number:	**7.1**	**SUT Priority:**	**SOA LTI**	N/A
			SOA	C
			LSMS	C
Objective:	NPAC OP GUI - NPAC Personnel schedule a future-dated NPA Split specifying the Old NPA-NXX as one that is part of an 'active' Number Pool Block - Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 109, NANC 244
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-31, RR3-33, RR3-34, RR3-39, RR3-40, RR3-41, RR3-51.1, RR3-51.2, RR3-219
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	7 – NPA Split

Test case procedures incorporated into test case 8.5.1 from Release 1.0.

A. TEST IDENTITY

Test Case Number:	**7.3**	***SUT PRIORITY:***	**SOA LTI**	N/A
			SOA	C
			LSMS	C
Objective:	NPAC OP GUI – NPAC Personnel remove an NPA-NXX from an NPA Split prior to the Permissive Dial Period (PDP) Start Date – Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-35, RR3-39
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	7 – NPA-NXX Split

NPAC Only functionality.

A. TEST IDENTITY

Test Case Number:	**7.4**	***SUT PRIORITY:***	**SOA LTI**	N/A
			SOA	C
			LSMS	C
Objective:	NPAC OP GUI - NPAC Personnel remove an NPA-NXX from an NPA Split during the Permissive Dial Period (PDP), which has a respective 'active' Number Pool Block - Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-35, RR3-39, RR3-42
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	

NPAC Only functionality.

A. TEST IDENTITY

Test Case Number:	**7.5**	**SUT Priority:**	**SOA LTI**	N/A
			SOA	C
			LSMS	C
Objective:	NPAC OP GUI - NPAC Personnel create an NPA-NXX-X specifying the Old NPA-NXX that is scheduled for an NPA Split, prior to the Permissive Dial Period (PDP) Start Date resulting in an auto-generated NPA-NXX-X with the Effective Date set to PDP Start Date-Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-87, RR3-36.1
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	1.1 Service Provider NPA-NXX-X Create by NPAC SMS

Test case procedures incorporated into test case 8.5.1 from Release 1.0.

A. TEST IDENTITY

Test Case Number:	**7.6**	**SUT Priority:**	**SOA LTI**	N/A
			SOA	C
			LSMS	C
Objective:	NPAC OP GUI - NPAC Personnel create an NPA-NXX-X specifying the Old NPA-NXX that is scheduled for an NPA Split, prior to the Permissive Dial Period (PDP) Start Date resulting in an auto-generated NPA-NXX-X with the Effective Date set to the Old NPA-NXX-X Effective Date- Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-87, RR3-36.1
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	1.1 Service Provider NPA-NXX-X Create by NPAC SMS

Test case procedures incorporated into test case 8.5.1 from Release 1.0.

A. TEST IDENTITY

Test Case Number:	**7.8**	**SUT Priority:**	**SOA LTI**	N/A
			SOA	C
			LSMS	C
Objective:	NPAC OP GUI – NPAC Personnel create an NPA-NXX-X specifying the Old NPA-NXX that is involved in an NPA Split, during Permissive Dial Period (PDP) - Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-87, RR3-36.3
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	1.1 Service Provider NPA-NXX-X Create by NPAC SMS

Test case procedures incorporated into test case 8.5.1 from Release 1.0.

A. TEST IDENTITY

Test Case Number:	**7.9**	**SUT Priority:**	**SOA LTI**	N/A
			SOA	C
			LSMS	C
Objective:	NPAC OP GUI - NPAC Personnel create an NPA-NXX-X specifying the New NPA-NXX, that is involved in an NPA Split, during Permissive Dial Period (PDP) – Success			

B. REFERENCES

NANC Change Order Revision Number:		Change Order Number(s):	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-87, RR3-36.3
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	1.1 Service Provider NPA-NXX-X Create by NPAC SMS

Test case procedures incorporated into test case 8.5.1 from Release 1.0.

A. TEST IDENTITY

Test Case Number:	**7.10**	***SUT PRIORITY:***	**SOA LTI**	N/A
			SOA	C
			LSMS	C
Objective:	NPAC OP GUI – NPAC Personnel modify an NPA-NXX-X specifying the Old NPA-NXX, that is scheduled for an NPA Split, prior to Permissive Dial Period (PDP) Start Date – Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-37.1
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	1.2 Service Provider NPA-NXX-X Modification by NPAC SMS

Test case procedures incorporated into test case 8.5.1 from Release 1.0.

A. TEST IDENTITY

Test Case Number:	**7.12**	**SUT Priority:**	**SOA LTI**	N/A
			SOA	C
			LSMS	C
Objective:	NPAC OP GUI – NPAC Personnel modify an NPA-NXX-X specifying the Old NPA-NXX, that is involved in an NPA Split, during Permissive Dial Period (PDP) – Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-37.3
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	1.2 Service Provider NPA-NXX-X Modification by NPAC SMS

Test case procedures incorporated into test case 8.5.1 from Release 1.0.

A. TEST IDENTITY

Test Case Number:	**7.13**	**SUT Priority:**	**SOA LTI**	N/A
			SOA	C
			LSMS	C
Objective:	NPAC OP GUI – NPAC Personnel modify an NPA-NXX-X specifying the New NPA-NXX, that is involved in an NPA Split, during Permissive Dial Period (PDP) – Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-37.3
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	

Test case procedures incorporated into test case 8.5.1 from Release 1.0.

A. TEST IDENTITY

Test Case Number:	**7.14**	**SUT Priority:**	**SOA LTI**	N/A
			SOA	O
			LSMS	R
Objective:	NPAC OP GUI - NPAC Personnel create a Number Pool Block using the Old NPA-NXX-X that is part of an NPA Split, during Permissive Dial Period (PDP) - Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-87, RR3-43, RR3-44, RR3-45, RR3-218
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	2.2 Number Pool Block Create by NPAC SMS 2.3 Number Pool Block Create Broadcast: Successful 2.3.1 Number Pool Block Create Broadcast Successful to Local SMS 2.3.2 Number Pool Block Create: Successful Broadcast

Test case procedures incorporated into test case 8.5.1 from Release 1.0.

A. TEST IDENTITY

Test Case Number:	**7.15**	**SUT Priority:**	**SOA LTI**	N/A
			SOA	C
			LSMS	R
Objective:	SOA – Service Provider Personnel create a Number Pool Block using the Old NPA-NXX-X that is part of an NPA Split, during Permissive Dial Period (PDP) - Success			

B. REFERENCES

NANC Change Order Revision Number:		***CHANGE ORDER NUMBER(S):***	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-87, RR3-43, RR3-44, RR3-45, RR3-218
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	2.1 Number Pool Block Create by SOA 2.3 Number Pool Block Create Broadcast: Successful 2.3.1 Number Pool Block Create Broadcast to Local SMS 2.3.2 Number Pool Block Create: Successful Broadcast

Test case procedures incorporated into test case 8.5.1 from Release 1.0.

A. TEST IDENTITY

Test Case Number:	**7.17**	**SUT Priority:**	**SOA LTI**	N/A
			SOA	O
			LSMS	R
Objective:	NPAC OP GUI -NPAC Personnel create a Number Pool Block using the New NPA-NXX-X involved in an NPA Split, during Permissive Dial Period (PDP) – Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-44, RR3-45
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	2.2 Number Pool Block Create by NPAC SMS 2.3 Number Pool Block Create Broadcast: Successful 2.3.2 Number Pool Block Create: Successful Broadcast

Test case procedures incorporated into test case 8.5.1 from Release 1.0.

A. TEST IDENTITY

Test Case Number:	**7.18**	**SUT Priority:**	**SOA LTI**	N/A
			SOA	C
			LSMS	R
Objective:	SOA – Service Provider Personnel create a Number Pool Block using the New NPA-NXX-X involved in an NPA Split, during Permissive Dial Period (PDP) - Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-87, RR3-44, RR3-45
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	2.1 Number Pool Block Create by SOA 2.3 Number Pool Block Create Broadcast: Successful 2.3.1 Number Pool Block Create Broadcast to Local SMS 2.3.2 Number Pool Block Create: Successful Broadcast

Test case procedures incorporated into test case 8.5.1 from Release 1.0.

A. TEST IDENTITY

Test Case Number:	**7.20**	**SUT Priority:**	**SOA LTI**	N/A
			SOA	C
			LSMS	R
Objective:	NPAC OP GUI - NPAC Personnel modify a Number Pool Block using the Old NPA-NXX-X that is part of an NPA Split, during Permissive Dial Period (PDP) – Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-46, RR3-47, RR3-218
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	2.10 Number Pool Block Modify by NPAC SMS 2.12.1 Number Pool Block Modify Successful Broadcast to Local SMS 2.12.2 Number Pool Block Modify Successful Broadcast NPAC SMS Updates

Test case procedures incorporated into test case 8.5.1 from Release 1.0.

A. TEST IDENTITY

Test Case Number:	**7.21**	**SUT Priority:**	**SOA LTI**	N/A
			SOA	C
			LSMS	R
Objective:	SOA – Service Provider Personnel modify a Number Pool Block using the Old NPA-NXX-X that is part of an NPA Split, during Permissive Dial Period (PDP) - Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-46, RR3-47, RR3-218
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	2.11 Number Pool Block Modify by Block Holder SOA 2.12 Number Pool Block Modify Broadcast to Local SMS Success 2.12.1 Number Pool Block Modify Successful Broadcast to Local SMS 2.12.2 Number Pool Block Modify Successful Broadcast NPAC SMS Updates

Test case procedures incorporated into test case 8.5.1 from Release 1.0.

A. TEST IDENTITY

Test Case Number:	**7.23**	**SUT Priority:**	**SOA LTI**	N/A
			SOA	C
			LSMS	R
Objective:	SOA – Service Provider Personnel modify a Number Pool Block using the New NPA-NXX-X that is part of an NPA Split, during Permissive Dial Period (PDP) - Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-46, RR3-47
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	2.11 Number Pool Block Modify by Block Holder SOA 2.12.1 Number Pool Block Modify Successful Broadcast to Local SMS 2.12.2 Number Pool Block Modify Successful Broadcast NPAC SMS Updates

Test case procedures incorporated into test case 8.5.1 from Release 1.0.

A. TEST IDENTITY

Test Case Number:	**7.25**	**SUT Priority:**	**SOA LTI**	N/A
			SOA	O
			LSMS	R
Objective:	NPAC OP GUI – NPAC Personnel de-pool an NPA-NXX-X specifying the Old NPA-NXX-X that that has an 'active' Number Pool Block associated with it and is scheduled for an NPA Split, prior to Permissive Dial Period (PDP) Start Date – Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-38.1
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	2.19Number Pool Block De-Pool by NPAC SMS 2.20.1 Number Pool Block De-Pool Successful Broadcast of Subscription Version and Number Pool Block Deletes 2.20.2 Number Pool Block De-Pool Broadcast Successful NPA-NXX-X Updates

Test case procedures incorporated into test case 8.5.1 from Release 1.0.

A. TEST IDENTITY

Test Case Number:	**7.27**	**SUT Priority:**	**SOA LTI**	N/A
			SOA	C
			LSMS	R
Objective:	NPAC OP GUI - NPAC Personnel de-pool an NPA-NXX-X specifying the Old NPA-NXX-X that has an 'active' Number Pool Block associated with it and is involved in an NPA Split, during Permissive Dial Period (PDP) – Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-38.3, RR3-48, RR3-218
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	2.19Number Pool Block De-Pool by NPAC SMS 2.20.1 Number Pool Block De-Pool Successful Broadcast of Subscription Version and Number Pool Block Deletes 2.20.2 Number Pool Block De-Pool Broadcast Successful NPA-NXX-X Updates

Test case procedures incorporated into test case 8.5.1 from Release 1.0.

A. TEST IDENTITY

Test Case Number:	**7.28**	**SUT Priority:**	**SOA LTI**	N/A
			SOA	C
			LSMS	R
Objective:	NPAC OP GUI – NPAC Personnel de-pool an NPA-NXX-X specifying the New NPA-NXX-X that is involved in an NPA Split, during Permissive Dial Period (PDP) – Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-38.3, RR3-48, RR3-218
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	2.19Number Pool Block De-Pool by NPAC SMS 2.20.1 Number Pool Block De-Pool Successful Broadcast of Subscription Version and Number Pool Block Deletes 2.20.2 Number Pool Block De-Pool Broadcast Successful NPA-NXX-X Updates

Test case procedures incorporated into test case 8.5.1 from Release 1.0.

10.11Resynchronization

A. TEST IDENTITY

Test Case Number:	**8.1**	**SUT Priority:**	**SOA LTI**	N/A
			SOA	N/A
			LSMS	C
Objective:	LSMS - Service Provider Personnel for an LSMS submit a resynchronization request for Network Data, Block Data, SV Data and Notification Data by time range, over the LSMS to NPAC SMS Interface, with the Service Provider's NPAC Customer LSMS NPA-NXX-X Indicator set to the value that they support. – Success **Note:** Per IIS3_4_1aPart2 scenario B.7.1 and 7.2, this flow is not available over the XML interface.			

B. REFERENCES

NANC Change Order Revision Number:		***CHANGE ORDER NUMBER(S):***	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR6-29, RR6-30, RR6-31, RR6-32, RR6-34, RR6-78, RR6-77, RR6-75, RR6-74, RR6-73, RR6-45, RR6-46, RR6-47, RR6-48, RR6-49, RR3-120, RR6-64, RR6-65, RR6-68, RR6-69, RR6-71, RR6-72
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	5.1 Sequencing of Events on Initialization/Resynchronization of EDR Local SMS 7.1.1 Sequencing of Events on Initialization/Resynchronization of Non-EDR Local SMS

Test case procedures incorporated into test case 187-1 from Release 3.2.

A. TEST IDENTITY

Test Case Number:	**8.2**	**SUT Priority:**	**SOA LTI**	N/A
			SOA	N/A
			LSMS	C
Objective:	LSMS - Service Provider Personnel for an LSMS submit a resynchronization request for Network Data, Block Data, SV Data and Notification Data by time range, over the LSMS to NPAC SMS Interface, with the Service Provider's NPAC Customer LSMS NPA-NXX-X Indicator set to TRUE. – Success **Note:** Per IIS3_4_1aPart2 scenario B.7.1 and 7.2, this flow is not available over the XML interface.			

B. REFERENCES

NANC Change Order Revision Number:		***CHANGE ORDER NUMBER(S):***	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR6-78, RR6-77, RR6-76, RR6-74, RR6-45, RR6-46, RR6-47, RR6-48, RR6-49, RR3-121, RR6-68, RR6-69
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	5.2 Sequencing of Events on Initialization/Resynchronization of Non-EDR Local SMS

Test case procedures incorporated into test case 8.1 for release 3.0. Test Case 8.1 has been superseded/incorporated into test case 187-1 from Release 3.2.

A. TEST IDENTITY

Test Case Number:	**8.3**	**SUT Priority:**	**SOA LTI**	N/A
			SOA	C
			LSMS	N/A
Objective:	SOA - Service Provider Personnel submit a resynchronization request for Network Data and Notification Data by time range, over the SOA to NPAC SMS Interface, with the Service Provider's NPAC Customer SOA NPA-NXX-X Indicator set to the value they support. - Success **Note:** Per IIS3_4_1aPart2 scenario B.7.1 and 7.2, this flow is not available over the XML interface.			

B. REFERENCES

NANC Change Order Revision Number:		***CHANGE ORDER NUMBER(S):***	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR6-29, RR6-30, RR6-31, RR6-32, RR6-33, RR6-50, RR6-51, RR6-52, RR6-53, RR6-54
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	5.3 Sequencing of Events on Initialization/Resynchronization of SOA

Test case procedures incorporated into test case 187-4 from Release 3.2.

A. TEST IDENTITY

Test Case Number:	**8.4**	**SUT Priority:**	**SOA LTI**	N/A
			SOA	N/A
			LSMS	C
Objective:	LSMS - Service Provider Personnel submit a resynchronization request for network data, Number Pool Block Data, subscription version data, and notifications by time range (time range exceeds 'Maximum Download Duration' tunable), over the LSMS to NPAC SMS Interface. – Error **Note:** Per IIS3_4_1aPart2 scenario B.7.1 and 7.2, this flow is not available over the XML interface.			

B. REFERENCES

NANC Change Order Revision Number:		***CHANGE ORDER NUMBER(S):***	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR6-31, RR6-65, RR6-66, RR6-67
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.7.1 Sequencing of Events on Initialization/Resynchronization of non-EDR Local SMS - B.7.2 Sequencing of Events on Initialization/Resynchronization of EDR Local SMS

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Filter the data so that the LSMS under test and one other associated LSMS will accept messages from NPAC. 2. Verify the 'Maximum Download Duration' tunable is set to a value less than what the LSMS expects. 3. While the LSMS is disconnected from the NPAC SMS, NPAC Personnel should perform the following functions: • Create an NPA-NXX. • Add at least 1 Block for different Service Providers and let the retry timer expire before the Service Provider associates their LSMS. • Delete at least 1 NPA-NXX-X for different Service Providers and let the retry timer expire before the Service Provider associates their LSMS. • Modify at least 1 Block for different Service Providers and let the retry timer expire before the Service Provider associates their LSMS. • Issue the first create for an Inter-Service Provider Subscription Version using an NPA-NXX that has never been ported before. • Issue a Scheduled Downtime Notification. • Issue an immediate disconnect for a subscription version and let the retry timer expire before the Service Provider associates their LSMS. • Issue an activate request for an Inter-Service Provider Subscription Version and let the retry timer expire before the Service Provider associates their LSMS.
Prerequisite SP Setup:	The service provider LSMS should be 'disassociated' from the NPAC SMS while NPAC Personnel are performing the setup specified above.

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result

1.	SP	The LSMS Service Provider establishes an association to the NPAC SMS with the resynchronization flag set to TRUE.	NPAC	The NPAC SMS receives the association bind request from the LSMS. Once the association is established, the NPAC SMS queues all current updates.
2.	SP	The LSMS issues an M-ACTION Request for recovery to the NPAC SMS and specifies a time range.	NPAC	The NPAC SMS receives the M-ACTION Request from the LSMS, verifies the duration exceeds the 'Maximum Download Duration' **(this violates system requirements)** and issues an M-ACTION Error Response indicating '**time-range-invalid**'.
3.	NPAC	NPAC Personnel query the NPAC SMS for the following information which NPAC Personnel manipulated in the prerequisites for this test case: 1. The NPA-NXX that was created. 2. The Number Pool Block that was created. 3. The Number Pool Block that was modified. 4. The Number Pool Block that was de-pooled. 5. The NPA-NXX-X that was deleted. 6. The First Port Notification that was created. 7. The Scheduled Downtime Notification that was created. 8. The Subscription Version that was deleted. 9. The Subscription Version that was activated.	NPAC	NPAC Personnel verify the following information: 1. The NPA-NXX that was created exists. 2. The Number Pool Block that was created exists with a status of 'partial failure' and with a Failed SP List populated appropriately. 3. The Number Pool Block that was modified exists with a status of 'active', the appropriate attributes were modified, and the Failed SP List is populated appropriately. 4. The Number Pool Block that was de-pooled exists with a status of 'old' and the Failed SP List is populated appropriately. 5. The NPA-NXX-X still exists on the NPAC because a Failed SP List is not empty for the associated Number Pool Block. 6. The First Port Notification failed to the respective Service Provider in this test case. 7. The Scheduled Downtime Notification failed to the respective Service Provider in this test case. 8. The Subscription Version that was deleted exists with a status of 'old' and the Failed SP List is populated appropriately. 9. The Subscription Version that was activated exists with a status of 'partial failure' and the Failed SP List is populated appropriately.
4.	SP - Optional	Service Provider Personnel, attempt to locate the First Port and NPAC Scheduled Downtime notifications on their LSMS.	SP - Optional	Service Provider Personnel verify that neither notification was received from the NPAC SMS.
5.	SP - Optional	Service Provider Personnel, using the LSMS, perform a local query for the following data that NPAC Personnel manipulated in the prerequisites of this test case: 1. The NPA-NXX that was created. 2. The Number Pool Block that was created. 3. The Number Pool Block that was modified. 4. The Number Pool Block that was de-pooled. 5. The NPA-NXX-X that was deleted – if supported by the Service Provider LSMS.	SP	Service Provider Personnel verify the following: 1. The NPA-NXX does not exist on their LSMS. 2. The Number Pool Block that was created does not exist on their LSMS. 3. The Number Pool Block that was modified exists on their LSMS, but the attributes which NPAC Personnel modified do not reflect their changes. 4. The Number Pool Block that was de-pooled still exists on their LSMS. 5. The NPA-NXX-X that was deleted still exists on their LSMS – if supported by the Service Provider LSMS. 6. The Subscription Version that was deleted still exists on their LSMS. 7. The Subscription Version that was activated does not exist on their LSMS.

		6. The Subscription Version that was deleted. 7. The Subscription Version that was activated.		
6.	SP - Conditional	Service Provider Personnel perform an NPAC SMS query for the following information manipulated by NPAC Personnel in the prerequisites of this test case: 1. The NPA-NXX that was created. 2. The Number Pool Block that was created. 3. The Number Pool Block that was modified. 4. The Number Pool Block that was de-pooled. 5. The NPA-NXX-X that was deleted. 6. The First Port Notification that was created. 7. The Scheduled Downtime Notification that was created. 8. The Subscription Version that was deleted. 9. The Subscription Version that was activated.	SP	Service Provider Personnel verify the following information on the NPAC SMS: 1. The NPA-NXX that was created exists. 2. The Number Pool Block that was created exists with a status of 'partial failure' and with a Failed SP List populated appropriately. 3. The Number Pool Block that was modified exists with a status of 'active', the appropriate attributes were modified, and the Failed SP List is populated appropriately. 4. The Number Pool Block that was de-pooled exists with a status of 'old' and the Failed SP List is populated appropriately. 5. The NPA-NXX-X still exists on the NPAC because a Failed SP List is not empty for the associated Number Pool Block. 6. The First Port Notification failed to the respective Service Provider in this test case. 7. The Scheduled Downtime Notification failed to the respective Service Provider in this test case. 8. The Subscription Version that was deleted exists with a status of 'old' and the Failed SP List is populated appropriately. 9. The Subscription Version that was activated exists with a status of 'partial failure' and the Failed SP List is populated appropriately.

A. TEST IDENTITY

Test Case Number:	**8.5**	**SUT Priority:**	**SOA LTI**	N/A
			SOA	N/A
			LSMS	C
Objective:	LSMS - Service Provider Personnel submit a resynchronization request for a range of Number Pool Blocks (Number of Blocks exceeds the 'Maximum Number of Download Records' tunable), over the LSMS to NPAC SMS Interface. – Error **Note:** Per IIS3_4_1aPart2 scenario B.7.1 and 7.2, this flow is not available over the XML interface.			

B. REFERENCES

NANC Change Order Revision Number:		***CHANGE ORDER NUMBER(S):***	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR6-65, RR6-66, RR6-67
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	5.1 Sequencing of Events on Initialization/Resynchronization of EDR Local SMS

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. No filters are applied to the data being tested. 2. Verify the 'Maximum Number of Download Records' tunable is set to a value less than what the LSMS expects. 3. While the LSMS is disconnected from the NPAC SMS, NPAC Personnel should perform the following functions: • Add at least 2 Blocks for different Service Providers inside and outside of the requested Block range. • Delete at least 2 Blocks for different Service Providers inside and outside of the requested Block range. • Modify at least 2 Blocks for different Service Providers inside and outside of the requested Block range.
Prerequisite SP Setup:	

Test case procedures incorporated into test case 187-3 from Release 3.2.

A. TEST IDENTITY

Test Case Number:	**8.6**	**SUT Priority:**	**SOA LTI**	N/A
			SOA	N/A
			LSMS	C
Objective:	LSMS - Service Provider Personnel submit a resynchronization request for a range of Number Pool Blocks over the LSMS to NPAC SMS Interface. (Blocks exist inside and outside of the requested Number Pool Block range.) – Success **Note:** Per IIS3_4_1aPart2 scenario B.7.2, this flow is not available over the XML interface.			

B. REFERENCES

NANC Change Order Revision Number:		***CHANGE ORDER NUMBER(S):***	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR3-120, RR6-64, RR6-65, RR6-70, RR6-71, RR6-72
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.7.2 Sequencing of Events on Initialization/Resynchronization of EDR Local SMS

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. An NPA-NXX filter applies to the data being tested. 2. While the LSMS is disconnected from the NPAC SMS, NPAC Personnel should perform the following functions: • Add at least 2 Blocks for different Service Providers inside and outside of the requested Block range. • Delete at least 2 Blocks for different Service Providers inside and outside of the requested Block range. • Modify at least 2 Blocks for different Service Providers inside and outside of the requested Block range. 3. If the region and the SP under test support PLRN, you may create some Blocks that use a PLRN value. In this case, verify that the SUT is included in the "PLRN Accepted SPID List" in their service provider profile so that they will receive a PLRN Blocks in their resynchronization data. If a SPID is not included on the "PLRN Accepted SPID List" the NPAC will not receive any PLRN information.
Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	The LSMS Service Provider establishes an association to the NPAC SMS with the resynchronization flag set to TRUE.	NPAC	The NPAC SMS receives the association bind request from the LSMS. Once the association is established, the NPAC SMS queues all current updates.
2.	SP	The LSMS issues an M-ACTION Request lnpDownload (Number Pool Block data) to the NPAC	NPAC	The NPAC SMS receives the M-ACTION Request from the LSMS and issues an M-ACTION Response lnpDownload with the no data to the LSMS (the

		SMS and specifies a range of NPA-NXX-X values.		applicable blocks are not sent because of the NPA-NXX filter).
3.	NPAC	NPAC Personnel query the Number Pool Block data that was not sent to the LSMS.	NPAC	Verify that the Number Pool Block data was updated appropriately.
4.	SP - Optional	Service Provider Personnel, using the LSMS, perform a local query for the Number Pool Block data updated in this test case.	SP	Verify that the following updates were not sent: • 1 Number Pool Block create • 1 Number Pool Block modify • 1 Number Pool Block delete
5.	SP - Conditional	Service Provider Personnel, perform an NPAC SMS query for the updated Number Pool Block data.	SP	Verify that the following updates were made: • 1 Number Pool Block create • 1 Number Pool Block modify • 1 Number Pool Block delete
6.	NPAC	NPAC Personnel perform a full audit for the Number Pool Blocks that were manipulated during this test case.	NPAC	Using the Audit Results log verify that no updates were made. . If any updates were made as a result of running this audit, this test case fails.

10.12Audit Test Cases:

A. TEST IDENTITY

Test Case Number:	**9.1**	**SUT Priority:**	**SOA LTI**	N/A
			SOA	C
			LSMS	N/A
Objective:	SOA - Service Provider Personnel initiate a full audit for a single TN, with LNP Type = POOL, for all Service Providers, no discrepancies exist. - Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR8-6, RR8-11, RR8-12, RR8-14
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.2.7.1 SOA Creates and NPAC SMS Starts Audit B.2.7.2 NPAC Performs Audit Comparisons for a SOA initiated Audit including a Number Pool Block B.2.7.3 NPAC SMS Reports Audit Results

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Use LSMS simulators to emulate these test results. 2. Verify that there are not any discrepancies between the NPAC SMS and the simulated LSMSs for the TN being audited. 3. Verify that the TN being audited is part of a Number Pool Block and is of LNP Type 'POOL'.
Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	1. Using their SOA system, Service Provider Personnel submit a full Audit request (specifying all Subscription Version attributes for audit) for a single TN of LNP Type 'POOL' to the NPAC SMS for all Service Providers in the region. 2. The SOA issues an M-CREATE Request subscriptionAudit in CMIP (or ACRQ – AuditCreateRequest in XML) to the NPAC SMS specifying the following attributes: • subscriptionAuditName - the English Audit Name	NPAC	The NPAC SMS receives the Request subscriptionAudit from the Service Provider SOA and determines the request is valid.

		• subscriptionAuditRequestingSP - the service provider requesting the audit • subscriptionAuditServiceProvIDRange - specifying all service providers for audit • subscriptionAuditAttributeList - specifying all Subscription Version attributes to be audited (CMIP only)		
2.	NPAC	The NPAC SMS creates the audit request object on the local database and issues an M-CREATE Response in CMIP (or ACRR – AuditCreateReply in XML) back to the Service Provider SOA that originated the audit request.	SP	The Service Provider SOA receives the Response subscriptionAudit from the NPAC SMS.
3.	NPAC	The NPAC SMS issues an M-EVENT-REPORT objectCreation (not available over the XML interface) to the Service Provider SOA that originated the Audit Request indicating the subscriptionAudit creation.	SP	The Service Provider SOA issues an M-EVENT-REPORT confirmation (not available over the XML interface) back to the NPAC SMS.
5.	NPAC	1. The NPAC SMS determines that this TN is within a 1K Block and begins the Audit to all Service Providers for the specified TN. 2. The NPAC SMS issues an M-GET Request numberPoolBlock in CMIP (or QLPQ – QueryLsmsNpbRequest in XML) to all accepting LSMSs in the region to retrieve respective block information for audit processing.	SP	The accepting LSMSs in the region receive the M-GET Request numberPoolBlock from the NPAC SMS and return the specified Number Pool Block object in an M-GET Response numberPoolBlock in CMIP (or QLPR – QueryLsmsNpbReply in XML) to the NPAC SMS.
6.	NPAC	The NPAC SMS issues an M-GET Request (scoped and filtered) subscriptionVersion in CMIP (or QLVQ – QueryLsmsSvRequest in XML) to all accepting LSMSs in the region to retrieve subscription data for audit processing.	SP	The accepting LSMSs in the region receive the M-GET Request subscriptionVersion from the NPAC SMS. The LSMSs do not locate a respective Subscription Version with LNP Type of 'POOL' and issue an M-GET Response in CMIP (or QLVR – QueryLsmsSvReply in XML) subscriptionVersion message back to the NPAC SMS specifying an empty set (no TNs).
7.	NPAC	The NPAC SMS performs object comparisons.	NPAC	The NPAC SMS completes the comparisons and no discrepancies are found.
8.	NPAC	The NPAC SMS issues an M-EVENT-REPORT subscriptionAuditResults in CMIP (or ARSN – AuditResultsNotification in XML) to the Service Provider SOA that originated the Audit Request.	SP	The Service Provider SOA receives the M-EVENT-REPORT from the NPAC SMS and issues an M-EVENT-REPORT Confirmation in CMIP (or NOTR – NotificationReply in XML) back to the NPAC SMS.

9.	NPAC	The NPAC SMS issues an M-EVENT-REPORT objectDeletion (not available over the XML interface) for the subscriptionAuditObject to the Service Provider SOA that originated the Audit Request.	SP	The Service Provider SOA receives the M-EVENT-REPORT from the NPAC SMS and issues an M-EVENT-REPORT Confirmation (not available over the XML interface) back to the NPAC SMS.
10.	NPAC	The NPAC SMS issues an M-DELETE Request for the subscriptionAudit object to itself.	NPAC	The NPAC SMS deletes the audit object from its local database and issues an M-DELETE Response to itself indicating the audit object was successfully deleted.

A. TEST IDENTITY

Test Case Number:	**9.2**	***SUT PRIORITY:***	**SOA LTI**	N/A
			SOA	N/A
			non-EDR LSMS	R
Objective:	NPAC OP GUI - NPAC Personnel initiate a full audit for a single TN, with LNP Type = POOL, for all Service Providers, discrepancies exist. - Success			

B. REFERENCES

NANC Change Order Revision Number:		***CHANGE ORDER NUMBER(S):***	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR8-6, RR8-7, RR8-8, RR8-9, RR8-10, RR8-11, RR8-13, RR8-14, RR8-15, RR8-16
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.2.7.1 SOA Creates and NPAC SMS Starts Audit B.2.7.2 NPAC Performs Audit Comparisons for a SOA initiated Audit including a Number Pool Block B.2.7.3 NPAC SMS Reports Audit Results

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify that there are systems accepting downloads for the NPA-NXX of the TN being audited. 2. Verify that the TN being audited is part of a Number Pool Block and is of LNP Type 'POOL'. 3. 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 the service provider should indicate any Optional Data elements they support and SV Type data (if they support it) for the number pool block. 4. Create the following discrepancies for the TN being audited: • Verify the respective Number Pool Block does not exist in its database. This Number Pool Block should have the SOA Origination set to 'TRUE' and should have a status of 'partial failure' with a Failed SP List entry. 5. If the Region and the LSMS under test support PLRN, create at least one discrepancy for a PLRN record and verify that the SUT is included in their "PLRN Accepted SPID List" in their service provider profile so that they will receive PLRN information.
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 full Audit request (specifying all Subscription Version attributes for audit) for a single TN of LNP Type 'POOL' to the NPAC SMS for all Service Providers in the region.	NPAC	The NPAC SMS receives the Audit Request from the NPAC Personnel, and determines the request is valid.

2.	NPAC	1. The NPAC SMS determines that this TN is within a 1K Block and begins the Audit to all Service Providers for the specified TN. 2. The NPAC SMS issues an M-GET Request numberPoolBlock in CMIP (or QLPQ – QueryLsmsNpbRequest in XML) to the LSMS to retrieve respective Number Pool Block information for audit processing. 3. The NPAC SMS issues an M-GET Request (scoped and filtered) subscriptionVersion in CMIP (or QLVQ – QueryLsmsSvRequest in XML) to the LSMS to retrieve subscription data for audit processing.	SP	1. An LSMS under test returns an M-GET Response numberPoolBlock in CMIP (or QLPR – QueryLsmsNpbReply in XML) to the NPAC SMS. 2. An LSMS under test does not locate a respective Subscription Version with LNP Type of 'POOL' and issues an M-GET Response subscriptionVersion in CMIP (or QLVR – QueryLsmsSvReply in XML)message back to the NPAC SMS specifying an empty set (no TNs).
3.	NPAC	The NPAC SMS performs object comparisons.		The NPAC SMS completes the comparisons and finds the discrepancy that this LSMS does not have the respective Number Pool Block in its database.
5.4.	NPAC	The NPAC SMS issues an M-CREATE Request numberPoolBlock in CMIP (or PBCD – NpbCreateDownload in XML) to the discrepant LSMS system.	SP	The discrepant LSMS receives the Request from the NPAC SMS, and creates the respective Number Pool Block appropriately and issues an M-CREATE Response in CMIP (or DNLR – DownloadReply in XML) back to the NPAC SMS.
7.5.	NPAC	The NPAC SMS issues an M-DELETE Request (not available over the XML interface) for the subscriptionAudit object to itself.	SP	The Block Holder SOA receives the M-EVENT-REPORT for the Number Pool Block, from the NPAC SMS and issues an M-EVENT-REPORT Confirmation (not available over the XML interface) back to the NPAC SMS.
8.6.	NPAC	NPAC Personnel perform a query for the audit discrepancy report.	NPAC	Verify the audit discrepancy report exists.

A. TEST IDENTITY

Test Case Number:	**9.3**	**SUT Priority:**	**SOA LTI**	N/A
			SOA	C
			LSMS	R
Objective:	SOA - Service Provider Personnel initiate a full audit for a range of TNs with LNP Type = POOL, LISP and LSPP for all Service Providers, no discrepancies exist. - Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR8-6, RR8-11, RR8-12, RR8-14
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.2.7.1 SOA Creates and NPAC SMS Starts Audit b.2.7.2 NPAC SMS Performs Audit Comparisons for a SOA initiated Audit including a Number Pool Block B.2.7.3 NPAC SMS Reports Audit Results

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify that there are systems accepting downloads for the NPA-NXX of the TNs being audited. 2. Verify that the range of TNs to be audited have LNP Types of 'POOL' (part of a Number Pool Block) and 'LISP' and/or 'LSPP' (outside of a Number Pool Block). 3. Verify that there are not any discrepancies between the NPAC SMS and the LSMSs for the TNs being audited.
Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	1. Using their SOA system, Service Provider Personnel submit a full Audit request (specifying all Subscription Version attributes for audit) for a range of TNs with LNP Types of 'POOL', 'LISP' and/or 'LSPP' to the NPAC SMS for all Service Providers in the region. The TN Range specified should include TNs that are included in a Number Pool Block, as well as TNs that are not part of a Number Pool Block. 2. The SOA issues an M-CREATE Request subscriptionAudit in CMIP (or ACRQ – AuditCreateRequest in XML) to	NPAC	The NPAC SMS receives the Request subscriptionAudit from the Service Provider SOA and determines the request is valid.

		the NPAC SMS specifying the following attributes: • subscriptionAuditName - the English Audit Name • subscriptionAuditRequestingSP - the service provider requesting the audit • subscriptionAuditServiceProvIDRange - specifying all service providers for audit • subscriptionAuditAttributeList - specifying all Subscription Version attributes to be audited (CMIP only)		
2.	NPAC	The NPAC SMS creates the audit request object on the local database, and issues an M-CREATE Response in CMIP (or ACRR – AuditCreateReply in XML) back to the Service Provider SOA that originated the audit request.	SP	The Service Provider SOA receives the Response from the NPAC SMS.
3.	NPAC	The NPAC SMS issues an M-EVENT-REPORT objectCreation (not available over the XML interface) to the Service Provider SOA that originated the Audit Request indicating the subscriptionAudit creation.	SP	The Service Provider SOA issues an M-EVENT-REPORT confirmation (not available over the XML interface) back to the NPAC SMS.
4.	NPAC	1. The NPAC SMS determines that some of these TNs are within a 1K Block and begins the Audit to all Service Providers for the specified TNs. 2. The NPAC SMS issues an M-GET Request numberPoolBlock in CMIP (or QLPQ – QueryLsmsNpbRequest in XML) to all LSMSs in the region to retrieve the respective Number Pool Block for audit processing. This request will specify only the Number Pool Blocks that intersect with the TN range specified in the Audit request. 3. The NPAC SMS issues an M-GET Request (scoped and filtered) subscriptionVersion in CMIP (or QLVQ – QueryLsmsSvRequest in XML) for all TNs in the range specified by the Audit Request to all LSMSs in the region to retrieve	SP	1. The LSMSs in the region return the specified Number Pool Block object in an M-GET Response numberPoolBlock in CMIP (or QLPR – QueryLsmsNpbReply in XML) to the NPAC SMS. 2. The LSMSs in the region return the specified Subscription Version objects in an M-GET Response subscriptionVersion in CMIP (or QLVR – QueryLsmsSvReply in XML) message back to the NPAC SMS. The LSMSs do not locate Subscription Version objects for Subscription Versions with LNP Type equal to 'POOL'.

		subscription data for audit processing.		
5.	NPAC	The NPAC SMS performs object comparisons.	NPAC	The NPAC SMS completes the comparisons and no discrepancies are found.
6.	NPAC	The NPAC SMS issues an M-EVENT-REPORT subscriptionAuditResults in CMIP (or ARSN – AuditResults Notification in XML) to the Service Provider SOA that originated the Audit Request.	SP	The Service Provider SOA issues an M-EVENT-REPORT Confirmation in CMIP (or NOTR – NotificationReply in XML) back to the NPAC SMS.
7.	NPAC	The NPAC SMS issues an M-EVENT-REPORT objectDeletion (not available over the XML interface) for the subscriptionAuditObject to the Service Provider SOA that originated the Audit Request.	SP	The Service Provider SOA issues an M-EVENT-REPORT Confirmation (not available over the XML interface) back to the NPAC SMS.
8.	NPAC	The NPAC SMS issues an M-DELETE Request for the subscriptionAudit object to itself.	NPAC	The NPAC SMS deletes the audit object from its local database and issues an M-DELETE Response to itself indicating the audit object was successfully deleted.

A. TEST IDENTITY

Test Case Number:	**9.4**	**SUT Priority:**	**SOA LTI**	N/A
			SOA	C
			LSMS	R
Objective:	SOA – Service Provider Personnel initiate a full audit for a range TNs, with LNP Type = POOL, LISP, and LSPP, for all Service Providers, discrepancies exist. - Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR8-6, RR8-7, RR8-8, RR8-9, RR8-10, RR8-11, RR8-13, RR8-14, RR8-15, RR8-16, RR8-17
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.2.7.1 SOA Creates and NPAC SMS Starts Audit B.2.7.2 NPAC SMS Performs Audit Comparisons for a SOA initiated Audit including a Number Pool Block B.2.8 NPAC SMS Audit Create for Subscription Versions Within a Number Pool Block B.2.8.1 NPAC SMS Creates and Starts Audit

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify that there are systems accepting downloads for the NPA-NXX of the TNs being audited. 2. Verify that within the range of TNs being audited some are part of a Number Pool Block and some are outside of a Number Pool Block. 3. 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 the service provider should indicate any Optional Data elements they support and SV Type data (if they support it) for the number pool block. 4. Create the following discrepancies: • A discrepancy for some of the GTT data and, if supported by the service provider LSMS – a discrepancy for SV Type and/or Optional Data elements information between a Subscription Version of LNP Type, 'LSPP' and one of the LSMSs. • A discrepancy where one of the LSMSs does not have the respective Number Pool Block in their database. This Number Pool Block has the SOA ORIGINATION set to 'FALSE' and the status currently is 'partial failure' with a Failed SP-List. • A discrepancy where one of the LSMSs has a Block that has been de-pooled.
Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	1. Using their SOA system, Service Provider Personnel submit a full Audit request (specifying all	NPAC	The NPAC SMS receives the Request from the Service Provider SOA and determines the request is valid.

		Subscription Version attributes for audit) for a range of TNs (some with LNP Type equal to 'POOL', some with LNP Type of either 'LISP' or 'LSPP'. Specify the smallest TN Range possible to include the 3 LNP Types. DO NOT specify the entire TN Range for the Number Pool Block. 2. The SOA issues an M-CREATE Request subscriptionAudit in CMIP (or ACRQ – AuditCreateRequest in XML) to the NPAC SMS specifying the following attributes: • subscriptionAuditName - the English Audit Name • subscriptionAuditRequestingSP - the service provider requesting the audit • subscriptionAuditServiceProvIDRange - specifying all service providers for audit • subscriptionAuditAttributeList - specifying all Subscription Version attributes to be audited (CMIP only)		
2.	NPAC	The NPAC SMS creates the audit request object on the local database, and issues an M-CREATE Response in CMIP (or ACRR – AuditCreateReply in XML) back to the Service Provider SOA that originated the audit request.	SP	The Service Provider SOA receives the Response from the NPAC SMS.
3.	NPAC	1. The NPAC SMS determines that some of these TNs are within a 1K Block and begins the Audit to all Service Providers for the specified TNs. 2. The NPAC SMS issues an M-GET Request numberPoolBlock in CMIP (or QLPQ – QueryLsmsNpbRequest in XML) to all LSMSs in the region to retrieve the respective Number Pool Block for audit processing. This request will specify only the Number Pool Blocks that intersect with the TN range specified in the Audit request. 3. The NPAC SMS issues an M-GET Request (scoped and	SP	1. The LSMSs in the region return the specified Number Pool Block object in an M-GET Response numberPoolBlock in CMIP (or QLPR – QueryLsmsNpbReply in XML) to the NPAC SMS. 2. The LSMSs in the region return the specified Subscription Version objects in an M-GET Response subscriptionVersion message in CMIP (or QLVR – QueryLsmsSvReply in XML) back to the NPAC SMS. The LSMSs do not locate Subscription Version objects for Subscription Versions with LNP Type equal to 'POOL'.

		filtered) subscriptionVersion in CMIP (or QLVQ – QueryLsmsSvRequest in XML) for all TNs in the range specified by the Audit Request to all LSMSs in the region to retrieve subscription data for audit processing.		
4.	NPAC	The NPAC SMS performs object comparisons.	NPAC	The NPAC SMS finds the following discrepancies: • A discrepancy for some of the GTT and, if supported by the service provider's LSMS – SV Type and/or Optional Data elements information between a Subscription Version of LNP Type, 'LSPP' and one of the LSMSs. • A discrepancy where one of the LSMSs does not have the respective Number Pool Block in their database. This Number Pool Block has the SOA ORIGINATION set to 'FALSE'. •
5.	NPAC	The NPAC SMS issues an M-EVENT-REPORT subscriptionAuditDiscrepancyRpt (not available over the XML interface) to the Service Provider SOA that originated the Audit Request for each discrepancy found.	SP	The Service Provider SOA issues an M-EVENT-REPORT Confirmations (not available over the XML interface) back to the NPAC SMS.
6.	NPAC	The NPAC SMS issues an M-SET Request subscriptionVersion in CMIP (or SVMD – SvModifyDownload in XML) to update the GTT and, if supported by the service provider's LSMS, SV Type and/or Optional Data elements information to equal the values on the NPAC SMS version of the Subscription Version to the discrepant LSMS system.	SP	The discrepant LSMS updates the Subscription Version appropriately and issues an M-SET Response in CMIP (or DNLR – DownloadReply in XML) back to the NPAC SMS.
7.	NPAC	The NPAC SMS issues an M-CREATE Request numberPoolBlock in CMIP (or PBCD – NpbCreateDownload in XML) to the discrepant LSMS system.	SP	The discrepant LSMS creates the respective Number Pool Block appropriately and issues an M-CREATE Response in CMIP (or DNLR – DownloadReply in XML) back to the NPAC SMS.
8.	NPAC	The NPAC SMS issues an M-SET Request numberPoolBlock in CMIP (or PBMD – NpbModifyDownload in XML) to the discrepant LSMS system.	SP	The discrepant LSMS updates the Number Pool Block appropriately and issues an M-SET Response in CMIP (or DNLR – DownloadReply in XML) back to the NPAC SMS.
9.	NPAC	The NPAC SMS issues an M-EVENT-REPORT subscriptionVersionStatusAttributeValueChange in CMIP (or VATN – SvAttributeValueChangeNotification in XML) to the Service Provider who owns the Subscription Version referred to in step 7 to set the subscriptionVersionStatus to 'active'	SP	The Current Service Provider SOA for the Subscription Version referred to in step 7 issues an M-EVENT-REPORT Confirmation in CMIP (or NOTR – NotificationReply in XML) back to the NPAC SMS.

		and update the subscriptionFailedSP-List.		
10.	NPAC	The NPAC SMS issues an M-EVENT-REPORT subscriptionVersionAttributeValueChange in CMIP (or VATN – SvAttributeValueChangeNotification in XML) to the Service Provider who owns the Subscription Version referred to in step 7 above to set the subscriptionVersionStatus to 'active' and update the subscriptionFailedSP-List.	SP	The Current Service Provider SOA for the Subscription Version referred to in step 7, issues an M-EVENT-REPORT Confirmation in CMIP (or NOTR – NotificationReply in XML) back to the NPAC SMS.
11.	NPAC	The NPAC SMS issues an M-EVENT-REPORT numberPoolBlockStatusAttributeValueChange in CMIP (or PATN – NpbAttributeValueChangeNotification in XML) to the Block Holder SOA for the Number Pool Block referred to in step 8 and updates the Number Pool Block status to 'active' and updates the subscriptionFailedSP-List.	SP	The Block Holder SOA for the Number Pool Block referred to in step 8 issues an M-EVENT-REPORT Confirmation in CMIP (or NOTR – NotificationReply in XML) back to the NPAC SMS.
12.	NPAC	The NPAC SMS issues an M-DELETE Request for the subscriptionAudit object to itself.	NPAC	The NPAC SMS deletes the audit object from its local database and issues an M-DELETE Response to itself indicating the audit object was successfully deleted.
13.	NPAC	NPAC Personnel perform a query for the audit discrepancy report.	NPAC	Verify the audit discrepancy report exists.

A. TEST IDENTITY

Test Case Number:	**9.5**	**SUT Priority:**	**SOA LTI**	N/A
			SOA	C
			LSMS	R
Objective:	SOA - Service Provider Personnel initiate a full audit based on TN range for all Service Providers, (a Number Pool Block indicated by the TN Range entry has a status of 'sending') - no discrepancies exist -- Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 109
NANC FRS Version Number:	3.0.0	**Relevant Requirement(s):**	RR8-18
NANC IIS Version Number:	3.0.0	**Relevant Flow(s):**	B.2.7.1 SOA Creates and NPAC SMS Starts Audit B.2.7.3 NPAC SMS Reports Audit Results

D. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Just prior to the SOA initiating this audit, create a block in a 'sending' status. The Audit should be performed on the same TN range as this Number Pool Block create. 2. Verify that there are systems accepting downloads for the NPA-NXX of the TN being audited. 3. Verify that the range of TNs being audited is part of a Number Pool Block and contains Subscription Versions of LNP Type 'POOL'. 4. Verify that there are not any discrepancies between the NPAC SMS and the LSMSs for the TNs being audited.
Prerequisite SP Setup:	

E. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	1. Using their SOA system, Service Provider Personnel submit an Audit request (specifying at least one Subscription Version attribute for audit) for a range of TNs and an Activation Timestamp to the NPAC SMS for all Service Providers in the region. 2. The SOA issues an M-CREATE Request subscriptionAudit in CMIP (or ACRQ – AuditCreateRequest in XML) to the NPAC SMS specifying the following attributes: • subscriptionAuditName - the English Audit Name	NPAC	The NPAC SMS receives the M-CREATE Request subscriptionAudit from the Service Provider SOA and determines the request is valid.

		• subscriptionAuditRequestingSP - the service provider requesting the audit • subscriptionAuditServiceProvIDRange - specifying all service providers for audit • subscriptionAuditAttributeList - specifying all Subscription Version attributes to be audited (CMIP only)		
2.	NPAC	The NPAC SMS creates the audit request object on the local database, and issues an M-CREATE Response in CMIP (or ACRR – AuditCreateReply in XML) back to the Service Provider SOA that originated the audit request.	SP	The Service Provider SOA receives the Response from the NPAC SMS.
3.	NPAC	The NPAC SMS issues an M-EVENT-REPORT objectCreation (not available over the XML interface) to the Service Provider SOA that originated the Audit Request indicating the subscriptionAudit creation.	SP	The Service Provider SOA issues an M-EVENT-REPORT confirmation in CMIP (not available over the XML interface) back to the NPAC SMS.
4.	NPAC	1. The NPAC SMS determines that the TN Range is for a 1K Block and that this block has a status of 'sending'. 2. The NPAC SMS issues an M-EVENT-REPORT subscriptionAuditResults in CMIP (or ARSN – AuditResultsNotification in XML) to the Service Provider SOA that initiated the Audit Request, indicating no discrepancies were found.	SP	The Service Provider SOA issues an M-EVENT-REPORT Confirmation in CMIP (or NOTR – NotificationReply in XML) back to the NPAC.
5.	NPAC	The NPAC SMS issues an M-EVENT-REPORT objectDeletion (not available over the XML interface) to the Service Provider SOA that initiated the Audit Request.	SP	The Service Provider SOA issues an M-EVENT-REPORT Confirmation in CMIP (not available over the XML interface) back to the NPAC.
6.	NPAC	The NPAC SMS issues an M-DELETE Request subscriptionAudit to itself to delete the subscriptionAudit object from the local database.	NPAC	The NPAC SMS issues an M-DELETE Response to itself.

End of Chapter