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 ~~3.3.4.1b~~3.4.0a

Chapter 12

~~July 30, 2010~~ January 14, 2011
Release ~~3.3.4.1b~~3.4.0a

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12. Individual Turn Up Test Scenarios related to NPAC Release 3.2.

Section 12 contains all test cases written for individual Service Provider Turn Up testing of Release 3.2.x of the NPAC software.

12.1 NANC 169 – Delta Download File Creation by Time Range for SVs

NOTE: When executing the NANC 169 Test Case, verify the NPAC Customer Allowable Functions, LSMS Queries/Audits – is set to TRUE.

A. TEST IDENTITY

Test Case Number:	**NANC 169-1**	**SUT Priority:**	**SOA**	N/A
			LSMS	Optional
Objective:	NPAC OP GUI – NPAC Personnel initiate a Bulk Data Download of Subscription Data – Specifying *Active/Disconnect Pending/Partial Failure Subscription Versions Only* and NOT specifying a TN range. Verification steps are performed to ensure the BDD file was processed successfully by the Service Provider system - Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 169
NANC FRS Version Number:	3.2.0a	**Relevant Requirement(s):**	RR3-320, RR3-312, RR3-313, RR3-314, RR3-319, RR3-323
NANC IIS Version Number:	3.2.0a	**Relevant Flow(s):**	N/A

C. PREREQUISITE

Prerequisite Test Cases:	

Prerequisite NPAC Setup:	While the LSMS is 'dis-associated' from the NPAC SMS, NPAC personnel perform the following functions: NOTE: If the service provider under test supports WSMSC, SV Type and/or Optional Data elements, include these attributes (based on support thereof) in the following subscription version and/or number pool block activities. a) Modify a (unique) range of 500, 'Active' Subscription Versions where the Service Provider under test is the Current Service Provider. Use simulators that are not associated with the NPAC and are receiving downloads for this NPA-NXX. Verify these Subscription Versions exist with a status of 'Active' and a Failed SP List. (SV group a_____) b) Create a filter for the NPA-NXX for which you created 500, 'Pending' Subscription Versions in 1a) above. • Activate these 500, 'Pending' Subscription Versions. Use simulators that are associated with the NPAC and are receiving downloads for this NPA-NXX. Verify that the status for all 500 is 'Active' on the NPAC SMS. (SV group b_____) • Disconnect 250 of these now, 'Active' Subscription Versions specifying Effective Release and Customer Disconnect dates in the future. Use simulators that are associated with the NPAC and are receiving downloads for this NPA-NXX. Verify that the status of these 250 Subscription Versions is 'Disconnect-Pending'. (SV group b[1]_____) • Remove the filter for this NPA-NXX for the Service Provider under test so that this range of Subscription Versions will be included in the Bulk Data Download File. c) Create and Activate 100 Intra-Service Provider Subscription Versions using an NPA-NXX that is open for porting and for which the Service Provider under test is accepting downloads for this NPA-NXX. This Service Provider is neither the Old nor New Service Provider for these Subscription Versions. Use simulators that are associated with the NPAC and are receiving downloads for this NPA-NXX. Verify that the Subscription Versions have a status of 'Partial-Fail'. (SV group c _____) d) Activate 50 Subscription Versions with a status of 'Pending'. The Service Provider under test is the New Service Provider for these Subscription Versions. Use simulators that are associated with the NPAC and are receiving downloads for this NPA-NXX. Verify that these Subscription Versions have a status of 'Partial-Fail'. (SV group d_____) e) Activate a Number Pool Block for an NPA-NXX for which this Service Provider under test is accepting downloads, but it is another Service Provider's Number Pool Block. Use simulators that are associated with the NPAC and are receiving downloads for this NPA-NXX. Verify that the Pooled Subscription Versions have a status of 'Partial-Fail'. (SV group e_____) (NPB e_____) f) Create and concur to a range of 100, 'Pending' Subscription Versions where the Service Provider under test is the New Service Provider. (SV group f_____) g) Put simulated SPID LSMS in recovery. Use at least one simulator that is associated with the NPAC and is accepting downloads for this NPA-NXX. Verify that the Service Provider under test is accepting downloads for this NPA-NXX. Activate 50 'pending' SVs in group f above. Verify that these subscription versions have a status of 'sending'. (SV group g_____) During the test case retry timers will exhaust, and then the status of the SVs should be 'Partial-Fail'.
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 request a Bulk Data Download for Subscription Data, specifying *Active/Disconnect Pending/Partial Failure Subscription Versions Only* and NOT specifying a TN range, for the Service Provider under test.	NPAC	The NPAC SMS performs the request, generates the appropriate Bulk Data Download File(s) and automatically "FTP's" the file(s) to the Service Provider's directory on the NPAC SMS.
2.	SP	Service Provider Personnel receive the Bulk Data Download File(s) and load the file into their LSMS.	SP	The LSMS successfully processes the Bulk Data Download file(s) and reflects the updates described in the prerequisites above. The systems are still 'dis-associated' from the NPAC SMS.
3.	SP	Service Provider Personnel, using their LSMS, perform a local query for the Subscription Data to verify that the Subscription Version data was loaded. • SV group a • SV group b • SV group b[1] • SV group c • SV group d • For non EDR LSMS, SV group e • For EDR LSMS, SV group e was not loaded • SV group g	SP	Using the LSMS system, verify: • SV group a exists on the LSMS. Verify that all of them reflect the 'modified' SV values from the prerequisites above. • SV group b exists on the LSMS. • SV group b[1] exists on the LSMS. • SV group c exists on the LSMS. • SV group d exists on the LSMS. • For non EDR LSMS, SV group e exists on the LSMS. • For EDR LSMS, SV group e DOES NOT exist on the LSMS. • SV group g exists on the LSMS.
4.	SP	After all NPAC 'retry timers' for the Subscription Versions specified in the prerequisites above have expired, Service Provider personnel perform appropriate steps to 'associate' with the NPAC SMS such that they will not recover additional information.	SP	The LSMS successfully re-associates without recovering additional information.
5.	NPAC	NPAC Personnel bring the simulated SPID LSMS that was in recovery in Prerequisite step g above, out of recovery.	NPAC	Verify that the simulated SPID that was in recovery during step g of the prerequisites is now out of recovery. Verify that the 50 subscription versions that were activated while this SPID was in recovery now have a status of 'Partial Fail'.
6.	NPAC	NPAC Personnel perform multiple, Full audits for each NPA-NXX included in the range of TNs specified in the prerequisites above for the Service Provider's LSMS to verify that all the appropriate updates were processed from the Bulk Data Download File by the LSMS.	NPAC	Using the Audit Results Log, verify that there were no updates made. If any updates were made as a result of running this audit, this test case fails. Verify that: • SV group a exists on the LSMS. Verify that all of them reflect the 'modified' SV values from the prerequisites above. • SV group b exists on the LSMS. • SV group b[1] exists on the LSMS. • SV group c exists on the LSMS. • SV group d exists on the LSMS. • For non-EDR LSMS, SV group e exists on the LSMS. • For EDR LSMS, SV group e DOES NOT exists on the

				LSMS. • SV group g exists on the LSMS.
7.	NPAC	NPAC Personnel 're-send' the following to the Service Provider under test: • SV group a that exists on the NPAC SMS with a status of 'Active with a Failed SP List. • SV group c that exists on the NPAC SMS with a status of 'Partial-Fail'. • SV group d that exists on the NPAC SMS with a status of 'Partial-Fail'. • If the Service Provider's EDR Indicator is set to FALSE, SV group e that exists on the NPAC SMS with a status of 'Partial-Fail'. • SV group g that exists on the NPAC SMS with a status of 'Partial-Fail'. . NPAC SMS issues the appropriate messages to the LSMS in order to update the LSMS for these SVs.	SP	LSMS receives the resend requests from the NPAC SMS and issues a 'duplicate object' response to the NPAC SMS for: • SV group a • SV group c • SV group d • If the Service Provider's EDR Indicator is set to FALSE, SV group e • SV group g
8.	NPAC	NPAC Personnel perform multiple Full audits for each NPA-NXX of the following SVs, to verify that all the appropriate updates were processed from the NPAC 're-send' for the 'Partial-Fail' objects: • SV group a • SV group c • SV group d • SV group 2e • SV group g	NPAC	Using the Audit Results Log, verify that there were no updates made. If any updates were made as a result of running this audit, this test case fails. Verify that: • SV group a exists on the LSMS. • SV group c exists on the LSMS. • SV group d exists on the LSMS. • SV group e exists on the non-EDR LSMS. • SV group e DOES NOT exist on the EDR LSMS. • SV group g exists on the LSMS.

E. Pass/Fail Analysis, NANC 169-1

Pass	Fail	NPAC Personnel performed the test case as written.
Pass	Fail	Service Provider Personnel performed the test case as written.
Pass	Fail	Service Provider Personnel were able to successfully process the Bulk Data Download file updates with their local databases in a timely fashion.
Pass	Fail	Service Provider LSMS was able to successfully process the 're-send' request from the NPAC SMS for the 'Partial-Fail' objects.

Note: Since the Bulk Data Download file selection criteria does not include a TN Range in this test case, the file may contain additional Subscription Versions. Testers can verify appropriate behavior for any additional data that may be in the file as is stated in the Test Steps above.

A. TEST IDENTITY

Test Case Number:	**NANC 169-2**	**SUT Priority:**	**SOA**	N/A
			LSMS	Optional
Objective:	NPAC OP GUI – NPAC Personnel initiate a Bulk Data Download of Subscription Data – Specifying *Active/Disconnect Pending/Partial Failure Subscription Versions Only* and specifying a TN range that is a subset of the prerequisite test data. Verification steps are performed to ensure the BDD file was processed successfully by the Service Provider system - Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 169
NANC FRS Version Number:	3.2.0a	**Relevant Requirement(s):**	RR3-318, RR3-319, RR3-320, RR3-323
NANC IIS Version Number:	3.2.0a	**Relevant Flow(s):**	N/A

C. PREREQUISITE

Prerequisite Test Cases:	

Prerequisite NPAC Setup:	While the LSMS is 'dis-associated' with the NPAC SMS, NPAC personnel perform the following functions: NOTE: If the service provider under test supports WSMSC, SV Type and/or Optional Data elements, include these attributes (based on support thereof) in the following subscription version and/or number pool block activities. a) Modify a (unique) range of 500, 'Active' Subscription Versions where the Service Provider under test is the Current Service Provider. . Use simulators that are not associated with the NPAC and are receiving downloads for this NPA-NXX. Verify these Subscription Versions exist with a status of 'Active' and a Failed SP List. (SV group a_____) b) Create and Activate 100 Intra-Service Provider Subscription Versions using an NPA-NXX that is open for porting and for which an NPA-NXX filter exists for the Service Provider under test. This Service Provider is neither the Old nor New Service Provider for these Subscription Versions. Use simulators that are associated with the NPAC and are receiving downloads for this NPA-NXX. Verify that the Subscription Versions have a status of 'Active'. (SV group b _____) Remove the filter for this NPA-NXX. c) Submit a Deferred Disconnect request for 50 of the Intra-Service Provider Subscription Versions that were created and activated in 2b) above. Use simulators that are associated with the NPAC and are receiving downloads for this NPA-NXX. Verify that these Subscription Versions have a status of 'Disconnect-Pending'. (SV group c _____). d) Activate 50 Subscription Versions with a status of 'Pending'. The Service Provider under test is the New Service Provider for these Subscription Versions. Use simulators that are associated with the NPAC and are receiving downloads for this NPA-NXX. Verify that these Subscription Versions have a status of 'Partial-Fail'. (SV group d_____) e) Activate a Number Pool Block for an NPA-NXX for which this Service Provider under test is accepting downloads, but it is another Service Provider's Number Pool Block. Use simulators that are associated with the NPAC and are receiving downloads for this NPA-NXX. Verify that the Pooled Subscription Versions have a status of 'Partial-Fail'. (SV group e_____) (NPB e_____) f) Put simulated SPID LSMS in recovery. Use at least one simulator that is associated with the NPAC and is accepting downloads for this NPA-NXX. Verify that the Service Provider under test is accepting downloads for this NPA-NXX. Activate an uncontaminated Number Pool Block on behalf of another Service Provider. Verify that the Pooled SVs and NPB have a status of 'Sending'. (SV group f_____), (NPB f_____) During the test case retry timers will exhaust, and then the status of the Pooled SVs and NPB should be 'Partial-Fail'. The TN Range specified in the Bulk Data Download Selection Criteria should be a 'subset' of the total of the TN Range used in the prerequisite steps. TN Range _____
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 request a Bulk Data Download for Subscription Data, specifying *Active/Disconnect*	NPAC	The NPAC SMS performs the request, generates the appropriate Bulk Data Download File(s) and automatically "FTP's" the file(s) to the Service Provider's directory on the NPAC SMS.

		Pending/Partial Failure Subscription Versions Only and specifying the TN Range identified in the prerequisites above, for the Service Provider participating in the test case. By specifying this TN range, the content of the BDD will actually be a subset of the prerequisite data.		
2.	SP	Service Provider Personnel receive the Bulk Data Download File(s) and load the file(s) into their LSMS systems.	SP	The LSMS successfully processes the Bulk Data Download file(s) and reflect the updates described in the prerequisites above. The systems are still 'dis-associated' from the NPAC SMS.
3.	SP	Service Provider Personnel, using their LSMS, perform a local query for the Subscription Data to verify that the data was loaded. **NOTE: The BDD request was a subset of the total TNs manipulated in the Prerequisite Setup above. Verify the subset of data.** • SV group a • SV group b • SV group c • SV group d • If the Service Provider's EDR Indicator is set to FALSE, SV group e • If the Service Provider's EDR Indicator is set to TRUE, SV group e DOES NOT exist on the LSMS. • If the Service Provider's EDR Indicator is set to FALSE, SV group f • If the Service Provider's EDR Indicator is set to TRUE, SV group f DOES NOT exists on the LSMS.	SP	Using the LSMS system, verify: **NOTE: The BDD request was a subset of the total TNs manipulated in the Prerequisite Setup above. Verify the subset of data.** • SV group a exists on the LSMS. • SV group b exists on the LSMS. • SV group c exists on the LSMS. • SV group d exists on the LSMS. • If the Service Provider's EDR Indicator is set to FALSE, SV group e exists on the LSMS. • If the Service Provider's EDR Indicator is set to TRUE, SV group e DOES NOT exist on the LSMS. • If the Service Provider's EDR Indicator is set to FALSE, SV group f exists on the LSMS. • If the Service Provider's EDR Indicator is set to TRUE, SV group f DOES NOT exist on the LSMS.
4.	SP	After all NPAC 'retry timers' for the Subscription Versions specified in the prerequisites above have expired, Service Provider personnel perform appropriate steps to 'associate' with the NPAC SMS such that they will not recover additional information.	SP	The LSMS successfully re-associates with the NPAC SMS without recovering additional information.
5.	NPAC	NPAC Personnel bring the simulated SPID LSMS that was in recovery in Prerequisite step f above, out of recovery.	NPAC	Verify that the simulated SPID that was in recovery during step f of the prerequisites is now out of recovery. Verify that the number pool block and respective pooled subscription versions that were activated while this SPID was in recovery now have a status of 'Partial Fail'.
6.	NPAC	NPAC Personnel perform multiple, Full audits for each NPA-NXX	NPAC	Using the Audit Results Log, verify that there were no updates made. If any updates were made as a result of running this

		included in the range of TNs specified in the prerequisites above for the Service Provider's LSMS to verify that all the appropriate updates were processed from the Bulk Data Download File by the LSMS.		audit, this test case fails. Verify that: • • SV group a exists on the LSMS. • SV group b exists on the LSMS. • SV group c exists on the LSMS. • SV group d exists on the LSMS. • If the Service Provider's EDR Indicator is set to FALSE, SV group e exists on the LSMS. • If the Service Provider's EDR Indicator is set to TRUE, SV group e DOES NOT exist on the LSMS. • If the Service Provider's EDR Indicator is set to FALSE, SV group f exists on the LSMS. • If the Service Provider's EDR Indicator is set to TRUE, SV group f DOES NOT exist on the LSMS.
7.	NPAC	NPAC Personnel 're-send' the following to the Service Provider under test: **NOTE: The BDD request was a subset of the total TNs manipulated in the Prerequisite Setup above. Resend the respective subset of data.** • SV group a that exists on the NPAC SMS with a status of 'Partial-Fail'. • SV group d that exists on the NPAC SMS with a status of 'Partial-Fail'. • If the Service Provider's EDR Indicator is set to FALSE, SV group e that exists on the NPAC SMS with a status of 'Partial-Fail'. • If the Service Provider's EDR Indicator is set to FALSE, SV group f that exists on the NPAC SMS with a status of 'Partial-Fail'. NPAC SMS issues the appropriate messages to the LSMS in order to update the LSMS for these SVs.	LSMS	LSMS receives the resend requests from the NPAC SMS and issues a 'duplicate object' response to the NPAC SMS for: **NOTE: The BDD request was a subset of the total TNs manipulated in the Prerequisite Setup above. Verify the subset of data.** • SV group a • SV group d • If the Service Provider's EDR Indicator is set to FALSE, SV group e • If the Service Provider's EDR Indicator is set to FALSE SV group f
8.	NPAC	NPAC Personnel perform multiple Full audits for each NPA-NXX of the following SVs to verify that all the appropriate updates were processed from the NPAC 're-send' for the 'Partial-Fail' objects: • SV group 2a • SV group 2d • If the Service Provider's EDR Indicator is set to FALSE, SV	NPAC	Using the Audit Results Log, verify that there were no updates made. If any updates were made as a result of running this audit, this test case fails. Verify that: • SV group 2a • SV group 2d • If the Service Provider's EDR Indicator is set to FALSE, SV group 2e • If the Service Provider's EDR Indicator is set to FALSE, SV group 2f

		group 2e • If the Service Provider's EDR Indicator is set to FALSE SV group 2f		

E. Pass/Fail Analysis, NANC 169-2

Pass	Fail	NPAC Personnel performed the test case as written.
Pass	Fail	Service Provider Personnel performed the test case as written.
Pass	Fail	Service Provider Personnel were able to successfully process the Bulk Data Download file updates with their local databases in a timely fashion.
Pass	Fail	Service Provider LSMS was able to successfully process the 're-send' request from the NPAC SMS for the 'Partial-Fail' objects.

Note: Since the TN Range specified in the Bulk Data Download selection criteria is a subset of the test data created in the prerequisites, the Bulk Data Download file will not contain the full set of TNs. Testers should verify this 'subset' of TN in the verification steps.

A. TEST IDENTITY

Test Case Number:	**NANC 169-3**	*SUT Priority:*	**SOA**	N/A
			LSMS	Optional
Objective:	NPAC OP GUI – NPAC Personnel initiate a Bulk Data Download of Subscription Data – Specifying *Latest View of Subscription Version Activity* a valid Time Range, and NOT specifying a TN range. Verification steps are performed to ensure the BDD file was processed successfully by the Service Provider system - Success			

B. REFERENCES

NANC Change Order Revision Number:		*Change Order Number(s):*	NANC 169
NANC FRS Version Number:	3.2.0a	**Relevant Requirement(s):**	RR3-315, RR3-316, RR3-317, RR3-319
NANC IIS Version Number:	3.2.0a	**Relevant Flow(s):**	N/A

C. PREREQUISITE

Prerequisite Test Cases:	

Prerequisite NPAC Setup:	While the LSMS is 'dis-associated' with the NPAC SMS, NPAC personnel perform the following functions: a) Modify a range of 250, 'Active' Subscription Versions where the Service Provider under test is the Current Service Provider. Use simulators that are not associated with the NPAC and are receiving downloads for this NPA-NXX. Use a subset of SV group 1a above, and verify that these Subscription Versions exist with a status of 'Active' and a Failed SP List. (SV group 2a_____) b) Activate 50 Subscription Versions with a status of 'Pending', for which a filter for this NPA-NXX exists for the Service Provider under test. The Service Provider under test is the New Service Provider for these Subscription Versions. Use simulators that are associated with the NPAC and are receiving downloads for this NPA-NXX. Verify that these Subscription Versions have a status of 'Active'. Remove the filter for this NPA-NXX so that these Subscription Versions will be included in the BDD for the service provider under test. (SV group 2b_____) c) Disconnect a subset of the 250, 'Active' Subscription Versions (in step 2b) specifying Effective Release and Customer Disconnect dates in the future. Use simulators that are associated with the NPAC and are receiving downloads for this NPA-NXX. Verify that the status of these Subscription Versions is 'Disconnect-Pending'. (SV group 2c_____) d) Activate a Number Pool Block for an NPA-NXX for which this Service Provider under test is accepting downloads, but it is another Service Provider's Number Pool Block. Use simulators that are associated with the NPAC and accepting downloads for this NPA-NXX. Verify that the Pooled Subscription Versions have a status of 'Partial-Fail'. (SV group 2d_____) (NPB 2d_____) e) Activate a range of 100, 'Pending' Subscription Versions on behalf of another Service Provider. Use simulators that are associated with the NPAC and are receiving downloads for this NPA-NXX. Set a filter for this NPA-NXX on behalf of the Service Provider under test. Verify that the Subscription Versions have a status of 'Active' with an empty Failed SP List. Remove filter for this NPA-NXX for the service provider under test before performing following steps. (SV group e_____) f) Put simulated SPID LSMS in recovery. Use at least one simulator that is associated with the NPAC and is accepting downloads for this NPA-NXX. Verify that the Service Provider under test is accepting downloads for this NPA-NXX. Modify 50 of the TNs that were activated in step e above. Verify that the Subscription Versions have a status of 'Sending'. (SV group f_____). During the test case retry timers will exhaust, and then the status of the SVs should be 'Partial-Fail'.
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 request a Bulk Data Download for Subscription Data, specifying *Latest View of Subscription Version Activity* a valid Time Range and not specifying a TN range, for the Service Provider participating in the test case.	NPAC	The NPAC SMS performs the request, generates the appropriate Bulk Data Download File(s) and automatically "FTP's" the file(s) to the Service Provider's directory on the NPAC SMS.
2.	SP	Service Provider Personnel receive the Bulk Data Download File(s) and	SP	The LSMS successfully processes the Bulk Data Download file(s) and reflects the updates described in the prerequisites

		load the file(s) into their LSMS systems.		above. The system is still 'dis-associated' from the NPAC SMS.
3.	SP	Service Provider Personnel, using their LSMS, perform a local query for the Subscription Data to verify that the Subscription Version data was loaded. • SV group a • SV group b • SV group c • If the Service Provider's EDR Indicator is set to FALSE, SV group d • If the Service Provider's EDR Indicator is set to TRUE, SV group d is not included • SV group f	SP	Using the LSMS system, verify: • • SV group a exists on the LSMS. • SV group b exists on the LSMS. • SV group c exists on the LSMS. • If the Service Provider's EDR Indicator is set to FALSE, SV group d exists on the LSMS. • If the Service Provider's EDR Indicator is set to TRUE, SV group d DOES NOT exist on the LSMS. • SV group f exists on the LSMS.
4.	SP	After all NPAC 'retry timers' for the Subscription Versions specified in the prerequisites above have expired, Service Provider personnel perform appropriate steps to 'associate' with the NPAC SMS such that they will not recover additional information.	SP	The LSMS successfully re-associates with the NPAC SMS without recovering additional information.
5.	NPAC	NPAC Personnel bring the simulated SPID LSMS that was in recovery in Prerequisite step f above, out of recovery.	NPAC	Verify that the simulated SPID that was in recovery during step f of the prerequisites is now out of recovery. Verify that the 50 subscription versions that were modified while this SPID was in recovery now have a status of 'Active' with a Failed SP List – including the service provider under test.
6.	NPAC	NPAC Personnel perform multiple Full audits for each NPA-NXX included in the range of TNs specified in the prerequisites above for the Service Provider's LSMS to verify that all the appropriate updates were processed from the Bulk Data Download File by the LSMS.	NPAC	Using the Audit Results Log, verify that there were no updates made. If any updates were made as a result of running this audit, this test case fails. Verify that: • SV group a exists on the LSMS. • SV group b exists on the LSMS. • SV group c exists on the LSMS. • If the Service Provider's EDR Indicator is set to FALSE, SV group d exists on the LSMS. • If the Service Provider's EDR Indicator is set to TRUE, SV group d DOES NOT exist on the LSMS. • SV group f exists on the LSMS.
7.	NPAC	NPAC Personnel 're-send' the following to the Service Provider under test: • SV group a that exists on the NPAC SMS with a status of 'Partial-Fail'. • If the Service Provider's EDR Indicator is set to FALSE, SV group d that exists on the NPAC SMS with a status of	SP	LSMS receives the resend requests from the NPAC SMS and issues a 'duplicate object' response to the NPAC SMS for: • SV group a • If the Service Provider's EDR Indicator is set to FALSE, SV group d • SV group f

		'Partial-Fail'. • SV group f that exists with a status of 'Active' and a Failed SP List including the service provider under test. NPAC SMS issues the appropriate messages to the LSMS in order to update the LSMS for these SVs.		
8.	NPAC	NPAC Personnel perform multiple, Full audits for each NPA-NXX of the following SVs to verify that all the appropriate updates were processed from the NPAC 're-send' for the 'Partial-Fail' objects: • SV group a • If the Service Provider's EDR Indicator is set to FALSE, SV group d • SV group f	NPAC	Using the Audit Results Log, verify that there were no updates made. If any updates were made as a result of running this audit, this test case fails. Verify that: • SV group a • If the Service Provider's EDR Indicator is set to FALSE, SV group d • SV group f

E. Pass/Fail Analysis, NANC 169-3

Pass	Fail	NPAC Personnel performed the test case as written.
Pass	Fail	Service Provider Personnel performed the test case as written.
Pass	Fail	Service Provider Personnel were able to successfully process the Bulk Data Download file updates with their local databases in a timely fashion.
Pass	Fail	Service Provider LSMS was able to successfully process the 're-send' request from the NPAC SMS for the 'Partial-Fail' objects.

Note: Since the Bulk Data Download file selection criteria does not include a TN Range in this test case, the file may contain additional Subscription Versions. Testers can verify appropriate behavior for any additional data that may be in the file as is stated in the Test Steps above.

A. TEST IDENTITY

Test Case Number:	**NANC 169-4**	*SUT Priority:*	**SOA**	N/A
			LSMS	Optional
Objective:	NPAC OP GUI – NPAC Personnel initiate a Bulk Data Download of Subscription Data – Specifying *Latest View of Subscription Version Activity* a valid Time Range, and a TN range that is a subset of the prerequisite test data. Verification steps are performed to ensure the BDD file was processed successfully by the Service Provider system - Success			

B. REFERENCES

NANC Change Order Revision Number:		*Change Order Number(s):*	NANC 169
NANC FRS Version Number:	3.2.0a	**Relevant Requirement(s):**	RR3-319, RR3-320, RR3-321, RR3-322
NANC IIS Version Number:	3.2.0a	**Relevant Flow(s):**	N/A

C. PREREQUISITE

Prerequisite Test Cases:	

Prerequisite NPAC Setup:	While the LSMS is 'dis-associated' from the NPAC SMS, NPAC personnel perform the following functions: a) Activate range of 500, 'Pending' Subscription Versions where the Service Provider under test is the Current Service Provider. Use simulators that are associated with the NPAC and are receiving downloads for this NPA-NXX. Verify these Subscription Versions exist with a status of 'Partial Fail'. (SV group 2a_____) b) Activate 500, unique, 'Pending' Subscription Versions for which a filter for this NPA-NXX exists for the Service Provider under test. Use simulators that are associated with the NPAC and are receiving downloads for this NPA-NXX. Verify that the status of these 500 Subscription Versions is 'Active'. (SV group 2b_____) Remove the filter for this NPA-NXX. c) Submit a Deferred Disconnect request for 50, unique, 'Active' Subscription Versions. The Service Provider under test is the Current Service Provider for these Subscription Versions. Use simulators that are associated with the NPAC and are receiving downloads for this NPA-NXX. Verify that these Subscription Versions have a status of 'Disconnect-Pending'. (SV group 2c_____) d) Activate a Number Pool Block for an NPA-NXX for which this Service Provider under test is accepting downloads, but it is another Service Provider's Number Pool Block. Use simulators that are associated with the NPAC and are receiving downloads for this NPA-NXX. Verify that the Pooled Subscription Versions have a status of 'Partial-Fail'. (SV group 2d_____) (NPB 2d_____) e) Activate an uncontaminated Number Pool Block on behalf of another Service Provider. Use simulators that are associated with the NPAC and are receiving downloads for this NPA-NXX. Set a filter for this NPA-NXX on behalf of the Service Provider under test. Verify that the Number Pool Block has a status of 'Active' with an empty Failed SP List. Remove the filter for this NPA-NXX for the Service Provider under test prior before performing following steps. (SV group e _____), (NPB group e_____) f) Put simulated SPID LSMS in recovery. Use at least one simulator that is associated with the NPAC and is accepting downloads for this NPA-NXX. Verify that the Service Provider under test is accepting downloads for this NPA-NXX. Modify the Number Pool Block that was activated in step e above. Verify that the Number Pool Block has a status of 'Sending'. (SV group f_____), (NPB group f_____) During the test case retry timers will exhaust, and then the status of the SVs and NPB should be 'Partial-Fail'. The TN Range specified in the Bulk Data Download Selection Criteria should be a 'subset' of the total of the TN Range used in the prerequisite steps. TN Range _____
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 request a Bulk Data Download for Subscription Data, specifying *Latest View of Subscription Version Activity* a valid Time Range and specifying the TN range identified in the prerequisites above, for the Service Provider	NPAC	The NPAC SMS performs the request, generates the appropriate Bulk Data Download File(s) and automatically "FTP's" the file(s) to the Service Provider's directory on the NPAC SMS.

		participating in the test case. By specifying this TN range, the content of the BDD will actually be a subset of the prerequisite data.		
2.	SP	Service Provider Personnel receive the Bulk Data Download File(s) and load the file(s) into their LSMS systems.	SP	The LSMS successfully processes the Bulk Data Download file(s) and reflects the updates described in the prerequisites above. The system is still 'dis-associated' from the NPAC SMS.
3.	SP	Service Provider Personnel, using their LSMS, perform a local query for the Subscription Data to verify that the Subscription Version data that matched the BDD criteria was loaded. **NOTE: The BDD request was a subset of the total TNs manipulated in the Prerequisite Setup above. Verify the subset of data.** • SV group a • SV group b • SV group c • If the Service Provider's EDR Indicator is set to FALSE, SV group d • If the Service Provider's EDR Indicator is set to TRUE, SV group d DOES NOT exist • If the Service Provider's EDR Indicator is set to FALSE, SV group f • If the Service Provider's EDR Indicator is set to TRUE, SV group f DOES NOT exist	SP	Using the LSMS system, verify: **NOTE: The BDD request was a subset of the total TNs manipulated in the Prerequisite Setup above. Verify the subset of data.** • SV group a exists on the LSMS. • SV group b exists on the LSMS. • SV group c exists on the LSMS. • If the Service Provider's EDR Indicator is set to FALSE, SV group d exists on the LSMS. • If the Service Provider's EDR Indicator is set to TRUE, SV group d DOES NOT exist on the LSMS. • If the Service Provider's EDR Indicator is set to FALSE, SV group f exists on the LSMS. • If the Service Provider's EDR Indicator is set to TRUE, SV group f DOES NOT exist on the LSMS.
4.	SP	After all NPAC 'retry timers' for the Subscription Versions specified in the prerequisites above have expired, Service Provider personnel perform appropriate steps to 'associate' with the NPAC SMS such that they will not recover additional information.	SP	The LSMS successfully re-associates with the NPAC SMS without recovering additional information. .
5.	NPAC	NPAC Personnel bring the simulated SPID LSMS that was in recovery in Prerequisite step f above, out of recovery.	NPAC	Verify that the simulated SPID that was in recovery during step f of the prerequisites is now out of recovery. Verify that the number pool block and respective pooled subscription versions that were modified while this SPID was in recovery now have a status of 'Active' with a Failed SP List that includes the service provider under test.
6.	NPAC	NPAC Personnel perform multiple Full audits for each NPA-NXX in the range of TNs specified in the prerequisites above for the Service Provider's LSMS to verify that all the appropriate updates were	NPAC	Using the Audit Results Log, verify that there were no updates made. If any updates were made as a result of running this audit, this test case fails. Verify that: • SV group a exists on the LSMS. • SV group b exists on the LSMS.

		processed from the Bulk Data Download File by the LSMS.		• SV group c exists on the LSMS. • If the Service Provider's EDR Indicator is set to FALSE, SV group d exists on the LSMS. • If the Service Provider's EDR Indicator is set to TRUE, SV group d DOES NOT exist on the LSMS. • If the Service Provider's EDR Indicator is set to FALSE, SV group f exists on the LSMS. • If the Service Provider's EDR Indicator is set to TRUE, SV group f DOES NOT exist on the LSMS.
7.	NPAC	NPAC Personnel 're-send' the following to the Service Provider under test: **NOTE: The BDD request was a subset of the total TNs manipulated in the Prerequisite Setup above. Resend the respective subset of data.** • SV group a that exists on the NPAC SMS with a status of 'Partial-Fail'. • If the Service Provider's EDR Indicator is set to FALSE, SV group d that exists on the NPAC SMS with a status of 'Partial-Fail'. • If the Service Provider's EDR Indicator is set to FALSE, pooled SV group f that exists on the NPAC SMS with a status of 'Active' with a Failed SP List that includes the service provider under test. NPAC SMS issues the appropriate messages to the LSMS in order to update the LSMS for these SVs.	SP	LSMS receives the resend requests from the NPAC SMS and issues a 'duplicate object' response to the NPAC SMS for: **NOTE: The BDD request was a subset of the total TNs manipulated in the Prerequisite Setup above. Verify the subset of data.** • SV group a • If the Service Provider's EDR Indicator is set to FALSE, SV group d • If the Service Provider's EDR Indicator is set to FALSE, pooled SV group f
8.	NPAC	NPAC Personnel perform multiple Full audits for each NPA-NXX in the following SVs to verify that all the appropriate updates were processed from the NPAC 're-send' for the 'Partial-Fail' objects: • SV group a • If the Service Provider's EDR Indicator is set to FALSE, SV group d • If the Service Provider's EDR Indicator is set to FALSE, SV group f	NPAC	Using the Audit Results Log, verify that there were no updates made. If any updates were made as a result of running this audit, this test case fails. Verify that: • SV group a • If the Service Provider's EDR Indicator is set to FALSE, SV group d • If the Service Provider's EDR Indicator is set to FALSE, SV group f

E. Pass/Fail Analysis, NANC 169-4

Pass	Fail	NPAC Personnel performed the test case as written.

Pass	Fail	Service Provider Personnel performed the test case as written.
Pass	Fail	Service Provider Personnel were able to successfully process the Bulk Data Download file updates with their local databases in a timely fashion.
Pass	Fail	Service Provider LSMS was able to successfully process the 're-send' request from the NPAC SMS for the 'Partial-Fail' objects.

Note: Since the TN Range specified in the Bulk Data Download selection criteria is a subset of the test data created in the prerequisites, the Bulk Data Download file will not contain the full set of TNs. Testers should verify this 'subset' of TN in the verification steps.

12.2 NANC 187 – Linked Action Replies

NOTE: Service Provider's Local SMS Linked Replies Indicator, Service Provider's SOA Linked Replies Indicator, NPAC Customer LSMS NPA-NXX-X Indicator, and NPAC Customer SOA NPA-NXX-X Indicator should be set to production values for testing NANC 187 functionality.

The Service Provider and Network Data, Block Data, Subscription Version Data and Notification Data Linked Replies Blocking Factors and Maximum Linked Recovered Objects should be set to predetermined values identified by the test team. These parameters may not be set to 'production or default' values so as to be able to complete testing in an expeditious manner.

The test data identified in the prerequisites for these test cases are recommendations to achieve the test case objectives. Many permutations of prerequisite data may create the appropriate test scenario and thus meet the test objective. Test Engineers should consider each Service Provider's capabilities and tailor the test data as is appropriate to meet the test objective and execute the test case expeditiously. For example, consider whether the Service Provider supports NPA-NXX-X's, Ranged Notifications and Linked Action Replies. Based on this information, you may need to perform more or less activity to meet the test case objective.

If the Region and the Service Provider under test support PLRN, in the prerequisite set up include some PLRN SVs and NPBs consistent with the existing prerequisite data (if a prerequisite does not already call for NPA-NXX-Xs/NPBs don't add PLRN NPBs to the prerequisites). Verify that the SUT is included in the "PLRN Accepted SPID List" in their service provider profile so that they will receive PLRN information including respective downloads and notifications. Verify this information as appropriate in the test results.

This is a recovery test case written to cover both Service Provider systems that DO and DO NOT support Linked Replies, thus, this test case will supersede Test Case 8.1 from the NPAC SMS/Service Provider Certification & Regression Test Plan.

NANC 187 Test Cases are written to test *regular* recovery. Please refer to NANC 351 Test Cases to explicitly test *SWIM* recovery.

A. TEST IDENTITY

Test Case Number:	**NANC 187-1**	**SUT Priority:**	**SOA**	N/A
			LSMS	Required
Objective:	LSMS – Service Provider Personnel for either an EDR or non-EDR LSMS submit a resynchronization request for Service Provider Data, Network Data, Block Data, Subscription Version Data and Notification Data by time range, over the LSMS to NPAC SMS Interface, with the Service Provider's Local SMS Linked Replies Indicator set to their production setting. The recovery response includes a number of Service Provider Data objects, Network Data objects, Number Pool Block objects, Notifications and Subscription Versions less than or equal to their respective Linked Replies Blocking Factors. - Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 187 and NANC 297
NANC FRS Version Number:	3.2.0	**Relevant Requirement(s):**	RR6-85, RR6-93, RR6-97, RR6-98, RR6-99, RR6-100, RR6-101, RR6-102, RR6-103, RR6-90, RR6-105
NANC IIS Version Number:	3.2.0	**Relevant Flow(s):**	B.7.1.1, B.7.1.2

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	Prerequisite data may be set up different depending on if this test case is being run during Individual testing versus Group Testing. For example, during Individual Testing, if the service provider under test does not support NPA-NXX-X's, don't perform any of the related tasks or verify related data. During Group testing, need to create prerequisite data such that you meet the test case objective. If service providers under test don't support Ranged Notifications for example, you will either need to not perform the number pool block activities, or you may filter the NPA-NXX of the number pool block data for the service provider(s) that doesn't support Range Notifications. 1. While the EDR/non-EDR LSMS is disconnected from the NPAC SMS, NPAC Personnel should perform the following functions: • Create at least one Service Provider. • Create an LRN. • Delete an LRN for a different Service Provider. • Create an NPA-NXX. • Delete an NPA-NXX for a different Service Provider. • Activate a new Number Pool Block. • DePool an existing Number Pool Block. • Create NPA-NXX-X Information for different Service Providers. • Modify NPA-NXX-X Information for different Service Providers. • Delete NPA-NXX-X Information for different Service Providers. • Create an Inter-SP Subscription Version for a Pooled TN. • Disconnect a Pooled Ported TN. • Create an Inter-SP, Port-To-Original Subscription Version for a Pooled Ported TN. • Create a Subscription Version with the NPA-NXX created above. • Issue an activate request for an Inter-Service Provider Subscription Version. • Issue an Activate request for a range of two Inter-Service Provider Subscription Versions, where the broadcast to the LSMSs goes to a 'partial failure' state. • Using an NPANXX with filters set for the LSMS under test, and using a simulator Activate 2 'pending' SVs. Verify that these subscription versions have a status of 'Sending'. • Put simulated SPID LSMS in recovery. Use at least one simulator that is associated with the NPAC and is accepting downloads for this NPA-NXX. Verify that the Service Provider under test is accepting downloads for this NPA-NXX. Activate an uncontaminated Number Pool Block on behalf of another Service Provider. Verify that the Pooled SVs and NPB have a status of 'Sending'. 2. While the EDR/non-EDR LSMS is in recovery, NPAC personnel should perform the following functions: • Create an NPA-NXX. • Activate a Subscription Version. NOTE: If the Service Provider LSMS under test supports WSMSC, Optional Data elements and/or SV Type include these attributes in the subscription version and number pool block processing above.
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 Service Provider establishes an	NPAC	The NPAC SMS receives the association bind request from the

		association from their LSMS to the NPAC SMS with the resynchronization flag set to TRUE.		LSMS. Once the association is established, the NPAC SMS queues all current updates.
2.	SP	The LSMS issues an M-ACTION Request lnpDownload (service provider data) to the NPAC SMS and specifies the time range for the resync request.	NPAC	The NPAC SMS receives the M-ACTION. 1) If the Service Provider's Local SMS Linked Replies Indicator is set to FALSE, NPAC issues a single, normal M-ACTION Response lnpDownload message back to the LSMS with the Service Provider Data. 2) If the Service Provider's Local SMS Linked Replies Indicator is set to TRUE, NPAC issues a single, normal M-ACTION Response lnpDownload message back to the LSMS with the Service Provider Data updates. The data does not exceed the Service Provider and Network Data Linked Replies Blocking factor, so there shall be only 1 normal message sent in this instance. NOTE: If the Service Provider Type LSMS Indicator is set to TRUE, the SP Type will be included in the download information.
3.	SP	The LSMS issues an M-ACTION Request lnpDownload (network data) to the NPAC SMS and specifies the time range for the resync request.	NPAC	The NPAC SMS receives the M-ACTION. 1) If the Service Provider's Local SMS Linked Replies Indicator is set to FALSE, NPAC issues a single, normal M-ACTION Response lnpDownload message back to the LSMS with the Network Data. 2) If the Service Provider's Local SMS Linked Replies Indicator is set to TRUE, NPAC issues a single, normal M-ACTION Response lnpDownload message back to the LSMS with the Network Data updates. The data does not exceed the Service Provider and Network Data Linked Replies Blocking factor, so there shall be only 1 normal message sent in this instance.
4.	NPAC	As soon as the M-ACTION Request is received, NPAC Personnel issue an activate for an Intra or Inter Service Provider Subscription Version AND create a new NPA-NXX, belonging to any Service Provider.	NPAC	The NPAC SMS receives the M-ACTION Requests for the activate and NPA-NXX create. It then sends an M-ACTION response to itself for the NPA-NXX create.
5.	NPAC	NPAC SMS issues an M-SET Request to itself to set the subscriptionVersionNPAC object (subscription version).	NPAC	NPAC SMS issues an M-SET Response to itself. The subscription version status is set to 'sending.' The subscriptionVersionActivationTimeStamp and subscriptionVersionModifiedTimeStamp are set.
6.	NPAC	The NPAC SMS checks to see if the M-CREATE subscriptionVersion can be sent to the Service Provider LSMS	NPAC	The NPAC SMS does NOT send the M-CREATE subscriptionVersion to the Service Provider LSMS, since the LSMS is still in recovery mode.
7.	NPAC	The NPAC SMS checks to see if the M-CREATE serviceProvNPA-NXX can be sent to the Service Provider LSMS	NPAC	The NPAC SMS does NOT send the M-CREATE serviceProvNPA-NXX to the Service Provider LSMS, since the LSMS is still in recovery mode.
8.	SP	The LSMS Service Provider issues an M-ACTION Request lnpDownload (subscription data) to the NPAC SMS and specifies the	NPAC	The NPAC SMS receives the M-ACTION Request from the LSMS. 1) If the Service Provider's Local SMS Linked Replies Indicator is set to FALSE, NPAC issues a single, normal M-

		start time for the resync request.		ACTION Response lnpDownload message back to the LSMS with the Subscription Version Data. 2) If the Service Provider's Local SMS Linked Replies Indicator is set to TRUE, NPAC issues a single, normal M-ACTION Response lnpDownload message back to the LSMS with the Subscription Version data. The data does not exceed the Subscription Version Data Blocking factor, so there shall be only 1 normal message sent in this instance. NOTE: If the Service Provider LSMS supports WSMSC, Optional Data elements and/or SV Type, these attributes will be included in the downloads as appropriate.
9. conditional	SP	The EDR LSMS Service Provider issues an M-ACTION Request lnpDownload (number pool block data) to the NPAC SMS and specifies the resync start time.	NPAC	The NPAC SMS receives the M-ACTION Request from the EDR LSMS. 1) If the Service Provider's Local SMS Linked Replies Indicator is set to FALSE, NPAC issues single, normal M-ACTION Response lnpDownload message back to the LSMS with the number pool block updates. 2) If the Service Provider's Local SMS Linked Replies Indicator is set to TRUE, NPAC issues a single, normal M-ACTION Response lnpDownload message back to the LSMS with the number pool block updates. The data does not exceed the Number Pool Block Data Blocking factor, so there shall be only 1 normal message sent in this instance. NOTE: If the Service Provider LSMS supports WSMSC, Optional Data elements and/or SV Type, these attributes will be included in the downloads as appropriate.
10.	SP	The LSMS Service Provider issues an M-ACTION Request lnpNotificationRecovery (notification data) to the NPAC SMS and specifies a time range.	NPAC	The NPAC SMS receives the M-ACTION Request from the LSMS: 1) If the Service Provider's Local SMS Linked Replies Indicator is set to FALSE, NPAC issues single, normal M-ACTION Response lnpDownload message back to the LSMS with the notification updates. 2) If the Service Provider's Local SMS Linked Replies Indicator is set to TRUE, NPAC issues a single, normal M-ACTION Response lnpDownload message back to the LSMS with the notification updates.
11.	NPAC	The NPAC SMS sends the M-EVENT-REPORT(s) to the Block Holder SOA for a number pool block with the SOA-Origination flag set to TRUE whose subscriptionFailedSP-List was just updated due to the number pool block download. The status attribute value change contains the current status and the subscriptionFailedSP-List of the number pool block object.	SP	Block Holder SOA, to which the NPAC SMS issued an M-EVENT-REPORT, issue an M-EVENT-REPORT Confirmation back to the NPAC SMS.
12.	SP	The LSMS Service Provider issues an M-ACTION Request lnpRecoveryComplete to the NPAC SMS to set the resynchronization flag to FALSE.	NPAC	The NPAC SMS receives the M-ACTION Request from the LSMS and sets the resynchronization flag to 'off'.
13.	NPAC	NPAC SMS issues the following messages to the LSMS for the	SP	The service provider's LSMS receives the requests from the NPAC SMS for the requests that occurred during recovery and

		requests made while the LSMS was in recovery: • M-CREATE Request serviceProvNPA-NXX for the NPA-NXX that was created during recovery. • M-CREATE Request subscriptionVersion for the subscription version that was activated during recovery.		issues the following responses: • M-CREATE Response serviceProvNPA-NXX for the NPA-NXX that was created during recovery, indicating the LSMS successfully received/processed the request. • M-CREATE Response subscriptionVersion for the subscription version that was activated during recovery, indicating the LSMS successfully received/processed the request.
14.	SP	Service Provider Personnel, using the LSMS, perform a local query for the data updated in this test case.	SP	Verify that the following updates were sent: • Service Provider create(s) based on prerequisite data; If the Service Provider Type LSMS Indicator is set to TRUE, the SP Type is included. • 1 LRN create. • 1 LRN delete. • 1 NPA-NXX create. • 1 NPA-NXX delete. • 1 Number Pool Block activate. • 1 Number Pool Block depool. • 1 NPA-NXX-X create – if supported by the Service Provider LSMS. • 1 NPA-NXX-X modify – if supported by the Service Provider LSMS. • 1 NPA-NXX-X delete – if supported by the Service Provider LSMS. • 1 Pooled Ported TN disconnect. • 1 First port of NPA-NXX notification. • 1 Single subscription version activate. • 2 subscription versions that were activated. • 1 Number Pool Block activate. • 1 NPA-NXX create after recovery is complete • 1 Subscription Version activate after recovery is complete • Verify that the WSMSC, Optional Data elements and/or SV Type attributes are present if the Service Provider under test supports these attributes on their LSMS and based on how they were specified in the prerequisite subscription version and number pool block data.
15.	NPAC	NPAC Personnel perform a Full audit for the Subscription Versions that were activated during this test case.	NPAC	Using the Audit Results Log, verify that there were no updates made. If any updates were made as a result of running this audit, this test case fails.

E. Pass/Fail Analysis, NANC 187-1

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

A. TEST IDENTITY

Test Case Number:	**NANC 187-2**	**SUT Priority:**	**SOA**	N/A
			LSMS	Required
Objective:	LSMS – Service Provider Personnel for either an EDR or non-EDR LSMS submit a resynchronization request for Network Data, and Subscription Version Data by time range, over the LSMS to NPAC SMS Interface, with the Service Provider's Local SMS Linked Replies Indicator set to their production setting. The recovery response includes a number of Network Data objects greater than the Service Provider and Network Data Linked Replies Blocking Factor and less than the Service Provider and Network Data Maximum Linked Recovered Objects as well as a number of Subscription Version objects greater than the Subscription Data Linked Replies Blocking Factor and less than the Subscription Data Maximum Linked Recovered Objects. - Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 187
NANC FRS Version Number:	3.2.0	**Relevant Requirement(s):**	RR6-87, RR6-88, RR6-93, RR6-103, RR6-90, RR6-95, RR6-104, RR6-96
NANC IIS Version Number:	3.2.0	**Relevant Flow(s):**	B.7.1.1, B.7.1.2

C. PREREQUISITE

Prerequisite Test Cases:	

Prerequisite NPAC Setup:	1. While the EDR/non-EDR LSMS is disconnected from the NPAC SMS, NPAC Personnel should perform the following functions: a) Create 10 LRNs. (LRN group a) b) Delete 10 LRNs for a different Service Provider. (LRN group b) c) Create 20 NPA-NXXs. (NPA-NXX group c) d) Delete 10 NPA-NXXs for a different Service Provider. (NPA-NXX group d) e) Activate 40 new Blocks. (NPB group e) f) DePool 20 existing Blocks. (NPB group f) g) Create 2 NPA-NXX-Xs for different Service Provider. (Dash X group g) h) Modify an NPA-NXX-X for different Service Provider. (Dash X group h) i) Delete an NPA-NXX-X for a different Service Provider. (Dash X group i) j) Activate 20 Inter-SP Subscription Version for a Pooled TN. (SV group j) k) Disconnect 25 Pooled Ported TN. (SV group k) l) Activate 20 Inter-SP, Port-To-Original Subscription Version for a Pooled Ported TN. (SV group l) m) Create 50 Subscription Version with the NPA-NXX created above. (SV group m) n) Issue an activate request for 20 Inter-Service Provider Subscription Version. (SV group n) o) Issue an Activate request for a range of 10 Inter-Service Provider Subscription Versions. (SV group o) p) Modify the NPA-NXX Effective Date for an NPA-NXX where the current date is less than the existing Effective Date and no pending-like SVs, NPA-NXX-Xs or NPBs exist for the respective NPA-NXX. (NPA-NXX group p) 2. While the EDR/non-EDR LSMS is in recovery, NPAC personnel should perform the following functions: • Create an NPA-NXX. • Activate a Subscription Version. NOTE: If the Service Provider LSMS under test supports WSMSC, Optional Data elements and/or SV Type include these attributes in the subscription version and number pool block processing above. NOTE: If the Region and the Service Provider under test support PLRN, establish (some) respective prerequisite data (PLRN SVs and NPB's). Verify that the SUT is included in the "PLRN Accepted SPID List" in their service provider profile so that they will receive respective PLRN information during resynchronization including notifications and downloads as appropriate for the test case. If the SUT is not included in the "PLRN Accepted SPID List" they will not receive this information during resynchronization.
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 Service Provider establishes an association from their LSMS 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 (network data) to the NPAC SMS and specifies the time range for the resync request.	NPAC	The NPAC SMS receives the M-ACTION. 1) If the Service Provider's Local SMS Linked Replies Indicator is set to FALSE, NPAC issues a single M-ACTION Response lnpDownload message back to the LSMS with the Network Data updates for • LRN group a • LRN group b • NPA-NXX group c

				• NPA-NXX group d • Dash X group g, if supported by the Service Provider under test • Dash X group h, if supported by the Service Provider under test • Dash X group i, if supported by the Service Provider under test • Modified NPA-NXX (NPA-NXX group p) 2) If the Service Provider's Local SMS Linked Replies Indicator is set to TRUE, NPAC issues multiple, linked M-ACTION replies, lnpDownload, followed by a non-linked, empty, normal response (indicating the end of the linked reply data) back to the LSMS with the Network Data updates. These messages shall be linked for groups of (50) objects – there should be 2 linked replies.
3.	NPAC	As soon as the M-ACTION Request is received, NPAC Personnel issue an activate for an Intra or Inter Service Provider Subscription Version (SV 3) AND create a new NPA-NXX, belonging to any Service Provider.	NPAC	The NPAC SMS receives the M-ACTION Requests for the activate and NPA-NXX create. It then sends an M-ACTION response to itself for the NPA-NXX create.
4.	NPAC	NPAC SMS issues an M-SET Request to itself to set the subscriptionVersionNPAC object (subscription version).	NPAC	NPAC SMS issues an M-SET Response to itself. The subscription version status is set to 'sending.' The subscriptionVersionActivationTimeStamp and subscriptionVersionModifiedTimeStamp are set.
5.	NPAC	The NPAC SMS checks to see if the M-CREATE subscriptionVersion can be sent to the Service Provider LSMS	NPAC	The NPAC SMS does NOT send the M-CREATE subscriptionVersion to the Service Provider LSMS, since the LSMS is still in recovery mode.
6.	NPAC	The NPAC SMS checks to see if the M-CREATE serviceProvNPA-NXX can be sent to the Service Provider LSMS	NPAC	The NPAC SMS does NOT send the M-CREATE serviceProvNPA-NXX to the Service Provider LSMS, since the LSMS is still in recovery mode.
7.	SP	The EDR and/or non-EDR LSMS Service Provider issues an M-ACTION Request lnpDownload (subscription data) to the NPAC SMS and specifies the start time for the resync request.	NPAC	The NPAC SMS receives the M-ACTION Request from the LSMS Service Provider. 1) If the Service Provider's Local SMS Linked Replies Indicator is set to FALSE, NPAC issues a single M-ACTION Response lnpDownload messages back to the LSMS with the Subscription Version Data updates for: • If non-EDR LSMS, Pooled Subscription Versions associated with NPB group e • If non-EDR LSMS, Pooled Subscription Versions associated with NPB group f • SV group j • SV group k • SV group l • SV group n • SV group o 2) If the Service Provider's Local SMS Linked Replies Indicator is set to TRUE, NPAC issues multiple, linked M-ACTION replies, lnpDownload, followed by a non-linked, empty, normal response (indicating the end of the linked reply data) back to the LSMS (with the 'non-pooled' Subscription Version Data updates to the EDR LSMS and

				pooled and non-pooled Subscription Version Data updates to the EDR LSMS). This message shall be linked for groups of (50) objects – there should be at least 3 linked replies, if the Service Provider under test is non-EDR and does not support Ranged Notifications, there will be at least 43 linked replies. If the service provider under test supports Ranged Notifications, there may be fewer than 43 linked replies based on the parameter setting. NOTE: If the Service Provider LSMS supports WSMSC, Optional Data elements and/or SV Type, these attributes will be included in the downloads as appropriate.
8. conditional	SP	The EDR LSMS Service Provider issues an M-ACTION Request lnpDownload (number pool block data) to the NPAC SMS and specifies a time range.	NPAC	The NPAC SMS receives the M-ACTION Request from the EDR LSMS: If the Service Provider's Local SMS Linked Replies Indicator is set to FALSE, NPAC issues single, normal M-ACTION Response lnpDownload message back to the with the number pool block updates for: • NPB group e • NPB group f 2) If the Service Provider's Local SMS Linked Replies Indicator is set to TRUE, NPAC issues multiple, linked M-ACTION replies, lnpDownload, followed by a non-linked, empty, normal response (indicating the end of the linked reply data) back to the EDR LSMS with the number pool block updates. These messages shall be linked for groups of (50) objects – there should be 2 linked replies. NOTE: If the Service Provider LSMS supports WSMSC, Optional Data elements and/or SV Type, these attributes will be included in the downloads as appropriate.
9. conditional	SP	The LSMS Service Provider issues an M-ACTION Request lnpNotificationRecovery (notification data) to the NPAC SMS and specifies a time range.	NPAC	The NPAC SMS receives the M-ACTION Request from the LSMS: 1) If the Service Provider's Local SMS Linked Replies Indicator is set to FALSE, NPAC issues single, normal M-ACTION Response lnpDownload message back to the LSMS with the notification updates. 2) If the Service Provider's Local SMS Linked Replies Indicator is set to TRUE, NPAC issues a single, normal M-ACTION Response lnpDownload message back to the LSMS with the notification updates.
10.	SP	The LSMS Service Provider issues an M-ACTION Request lnpRecoveryComplete to the NPAC SMS to set the resynchronization flag to FALSE.	NPAC	The NPAC SMS receives the M-ACTION Request from the LSMS and sets the resynchronization flag to 'off'.
11.	NPAC	NPAC SMS issues the following messages to the LSMS for the request made while the LSMS was in recovery: • M-CREATE Request serviceProvNPA-NXX for the NPA-NXX that was created during recovery. • M-CREATE Request subscriptionVersion for the subscription version that was	SP	The service provider's LSMS receives the requests from the NPAC SMS for the requests that occurred during recovery and issues the following responses: • M-CREATE Response serviceProvNPA-NXX for the NPA-NXX that was created during recovery, indicating the LSMS successfully received/processed the request. • M-CREATE Response subscriptionVersion for the subscription version that was activated during recovery, indicating the LSMS successfully received/processed the request.

		activated during recovery.		
12.	SP	Service Provider Personnel, using the LSMS, perform a local query for the data updated in this test case.	SP	Verify that the following updates were sent: • LRN group a was created. • LRN group b was deleted. • NPA-NXX group c was activated. • NPA-NXX group d was depooled. • On non-EDR LSMSs, Pooled Subscription Versions associated with NPB e were created. • On non-EDR LSMSs, Pooled Subscription Versions associated with NPB f were deleted. • NPA-NXX-X (Dash X group g) was created – if supported by the Service Provider LSMS. • NPA-NXX-X (Dash X group h) was modified – if supported by the Service Provider LSMS. • NPA-NXX-X (Dash X group i) was deleted – if supported by the Service Provider LSMS. • SV group j was created/activated. • SV group k was disconnected. • SV group l was created/activated. • First port of NPA-NXX notification associated with SV group m was sent. • SV group n was activated. • SV group o was activated. • 1 NPA-NXX create after recovery is complete • SV3 was activated after recovery is complete. • Verify that the WSMSC, Optional Data elements and/or SV Type attributes are present if the Service Provider under test supports these attributes on their LSMS and based on how they were specified in the prerequisite subscription version and number pool block data. • NPA-NXX group p, to verify the Effective Date was modified as indicated in the prerequisite data.
13.	NPAC	NPAC Personnel perform a Full audit for the Subscription Versions that were activated during this test case.	NPAC	Using the Audit Results Log, verify that there were no updates made. If any updates were made as a result of running this audit, this test case fails.

E. Pass/Fail Analysis, NANC 187-2

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

A. TEST IDENTITY

Test Case Number:	**NANC 187-3**	**SUT Priority:**	**SOA**	N/A
			LSMS	Required
Objective:	LSMS – Service Provider Personnel for either an EDR or non-EDR LSMS submit a resynchronization request for Network Data, Number Pool Block data and Subscription Version Data by time range, over the LSMS to NPAC SMS Interface, with the Service Provider's Local SMS Linked Replies Indicator set to their production setting. The recovery response includes a number of Network Data objects, Number Pool Block objects and Subscription Version objects greater than the respective Maximum Linked Recovered Objects and Maximum Number Download Records parameters. - Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 187
NANC FRS Version Number:	3.2.0	**Relevant Requirement(s):**	RR6-95, RR6-104, RR6-106
NANC IIS Version Number:	3.2.0	**Relevant Flow(s):**	B.7.1.1, B.7.1.2

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Determine the settings for the Maximum Recovered objects and then substitute the 'X number references following in order to exceed these parameter settings. 2. While the EDR/non-EDR LSMS is disconnected from the NPAC SMS, NPAC Personnel should perform the following functions: a) Create 10 LRNs. (LRN group a) b) Delete 10 LRNs for a different Service Provider. (LRN group b) c) Create 10 NPA-NXXs. (NPA-NXX group c) d) Delete 10 NPA-NXXs for a different Service Provider. (NPA-NXX group d) e) Activate 20 new Blocks. (NPB group e) f) DePool 20 existing Blocks. (NPB group f) g) Create 5 NPA-NXX-Xs for different Service Provider. (Dash X group g) h) Modify 5 NPA-NXX-X for different Service Provider. (Dash X group h) i) Delete 5 NPA-NXX-X for a different Service Provider. (Dash X group i) j) Activate 25 Inter-SP Subscription Version for a Pooled TN. (SV group j) k) Disconnect 25 Pooled Ported TN. (SV group k) l) Activate 25 Inter-SP, Port-To-Original Subscription Version for a Pooled Ported TN. (SV group l) m) Create 1 Subscription Version with the NPA-NXX created above. (SV group m) n) Issue an activate request for 25 Inter-Service Provider Subscription Version. (SV group n) 0) Issue an Activate request for a range of 25 Inter-Service Provider Subscription Versions. (SV group 0) NOTE: If the Service Provider LSMS under test supports WSMSC, Optional Data elements and/or SV Type include these attributes in the subscription version and number pool block processing above.
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 Service Provider establishes an association from their LSMS 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 (network data) to the NPAC SMS and specifies the time range for the resync request.	NPAC	The NPAC SMS receives the M-ACTION Request from the LSMS and determines that for the time range requested, the Network Data exceeds the Service Provider and Network Data Maximum Recovered Objects parameter (if the service provider supports linked replies) or the Maximum Number of Download Records (if the service provider does not support linked replies). The NPAC SMS issues an M-ACTION Response lnpDownload, **Criteria-too-large** to the requesting LSMS.
3.	SP	After receiving the M-ACTION Response 'Criteria-to-large' the LSMS issues an M-ACTION Request lnpDownload (network data) to the NPAC SMS and specifies a smaller time range (than that indicated in row 2 above) for the resync request. Note: Row 2 may occur over and over until the M-ACTION Request indicates a time range that yields data less than the 'Service Provider and Network Data Maximum Linked Recovered Objects' for service provider's that support Linked Replies – or less than the Maximum Number of Download Records for those service provider's that don't support Linked Replies.	NPAC	Once the NPAC SMS receives an M-ACTION request that specifies time range that yields an amount of data less than the 'Service Provider and Network Data Maximum Linked Recovered Objects' for service provider's that support Linked Replies, or less than the 'Maximum Number of Download Records' for service provider's that don't support Linked Replies: 1) If the Service Provider's Local SMS Linked Replies Indicator is set to FALSE, NPAC issues a single M-ACTION Response lnpDownload message back to the LSMS with the Network Data updates for • LRN group a • LRN group b • NPA-NXX group c • NPA-NXX group d • Dash X group g, if supported by the Service Provider under test • Dash X group h, if supported by the Service Provider under test • Dash X group i, if supported by the Service Provider under test 2) If the Service Provider's Local SMS Linked Replies Indicator is set to TRUE, NPAC issues multiple, linked M-ACTION replies, lnpDownload, followed by a non-linked, empty, normal response (indicating the end of the linked reply data) back to the LSMS with the Network Data updates. These messages shall be linked for groups of (50) objects – there should be 2 linked replies.
4.	SP	The LSMS Service Provider issues an M-ACTION Request lnpDownload (subscription data) to the NPAC SMS and specifies the start time for the resync request.	NPAC	The NPAC SMS receives the M-ACTION Request from the LSMS and determines that for the time range requested, the Subscription Version data exceeds the Subscription Version Data Maximum Recovered Objects parameter (if the service provider supports linked replies) or the Maximum Number of Subscription Records (if the service provider does not support linked replies). The NPAC SMS issues an M-ACTION Response lnpDownload, **Criteria-too-large** to the requesting LSMS.

5.	SP	After receiving the M-ACTION Response 'Criteria-to-large' the LSMS issues an M-ACTION Request lnpDownload (subscription data) to the NPAC SMS and specifies a smaller time range (than that indicated in row 4 above) for the resync request. Note: Row 4 may occur over and over until the M-ACTION Request indicates a time range that yields data less than the 'Subscription Data Maximum Linked Recovered Objects' for service provider's that support Linked Replies – or less than the Maximum Number of Subscription Records for those service provider's that don't support Linked Replies.	NPAC	Once the NPAC SMS receives an M-ACTION request that specifies time range that yields an amount of data less than the 'Subscription Data Maximum Linked Recovered Objects' for service provider's that support Linked Replies, or less than the 'Maximum Number of Subscription Records' for service provider's that don't support Linked Replies: 1) If the Service Provider's Local SMS Linked Replies Indicator is set to FALSE, NPAC issues a single M-ACTION Response lnpDownload message back to the LSMS with the Network Data updates for • If non-EDR LSMS, Pooled Subscription Versions associated with NPB group e • If non-EDR LSMS, Pooled Subscription Versions associated with NPB group f • SV group j • SV group k • SV group l • SV group n • SV group o 2) If the Service Provider's Local SMS Linked Replies Indicator is set to TRUE, NPAC issues multiple, linked M-ACTION replies, lnpDownload, followed by a non-linked, empty, normal response (indicating the end of the linked reply data) back to the LSMS with the Subscription Version Data updates. This message shall be linked for groups of (50) objects – For the EDR LSMS there should be at least 3 linked replies of non-pooled subscription version data, if the Service Provider under test is non-EDR and does not support Ranged Notifications, there will be at least 43 linked replies. If the service provider under test supports Ranged Notifications, there may be fewer than 43 linked replies based on the parameter setting. NOTE: If the Service Provider LSMS supports WSMSC, Optional Data elements and/or SV Type, these attributes will be included in the downloads as appropriate.
6.	SP	The LSMS Service Provider issues an M-ACTION Request lnpDownload (number pool block data) to the NPAC SMS and specifies the resync start time.	NPAC	The NPAC SMS receives the M-ACTION Request from the LSMS and determines that for the time range requested, the Number Pool Block data exceeds the Number Pool Block Data Maximum Recovered Objects parameter (if the service provider supports linked replies) or the Maximum Number of Download Records (if the service provider does not support linked replies). The NPAC SMS issues an M-ACTION Response lnpDownload, **Criteria-too-large** to the requesting LSMS.
7.	SP	After receiving the M-ACTION Response 'Criteria-to-large' the LSMS issues an M-ACTION Request lnpDownload (number pool block data) to the NPAC SMS and specifies a smaller time range (than that indicated in row 6 above) for the resync request. Note: Row 4 may occur over and over until the M-ACTION Request indicates a time range that yields data less than the 'Number Pool	NPAC	Once the NPAC SMS receives an M-ACTION request that specifies a time range that yields an amount of data less than the 'Number Pool Block Data Maximum Linked Recovered Objects' for service provider's that support Linked Replies, or less than the 'Maximum Number of Download Records' for service provider's that don't support Linked Replies: 1) If the Service Provider's Local SMS Linked Replies Indicator is set to FALSE, NPAC issues a single M-ACTION Response lnpDownload message back to the LSMS with the Network Data updates for • NPB group e • NPB group f

		Block Data Maximum Linked Recovered Objects' for service provider's that support Linked Replies – or less than the Maximum Number of Download Records for those service provider's that don't support Linked Replies.		2) If the Service Provider's Local SMS Linked Replies Indicator is set to TRUE, NPAC issues multiple, linked M-ACTION replies, lnpDownload, followed by a non-linked, empty, normal response (indicating the end of the linked reply data) back to the EDR LSMS with the number pool block updates. These messages shall be linked for groups of (50) objects – there should be 2 linked replies. NOTE: If the Service Provider LSMS supports WSMSC, Optional Data elements and/or SV Type, these attributes will be included in the downloads as appropriate.
8. conditional	SP	The LSMS Service Provider issues an M-ACTION Request lnpNotificationRecovery (notification data) to the NPAC SMS and specifies a time range.	NPAC	The NPAC SMS receives the M-ACTION Request from the LSMS: 1) If the Service Provider's Local SMS Linked Replies Indicator is set to FALSE, NPAC issues single, normal M-ACTION Response lnpDownload message back to the LSMS with the notification updates. 2) If the Service Provider's Local SMS Linked Replies Indicator is set to TRUE, NPAC issues a single, normal M-ACTION Response lnpDownload message back to the LSMS with the notification updates.
9.	SP	The LSMS Service Provider issues an M-ACTION Request lnpRecoveryComplete to the NPAC SMS to set the resynchronization flag to FALSE.	NPAC	The NPAC SMS receives the M-ACTION Request from the LSMS and replies back to the LSMS with data updates at the next scheduled interval for the NPA-NXX that was created during resynchronization and the Subscription Version that was activated during resynchronization.
10.	SP	The LSMS receives the M-ACTION Response from the NPAC SMS..		
11.	NPAC	NPAC Personnel verify that no data was sent in the initial action responses for the network data, subscription data and number pool block data requests from the LSMS..	NPAC	Verify that no data was sent in the initial action responses sent for network data, subscription data and number pool block data request from the LSMS. Note to Test Engineers: NPAC Personnel may watch the router of the service provider under test to verify the 1st request for data types (network data, subscription data and number pool block data) result in a 'criteria-too-large' response.

E. Pass/Fail Analysis, NANC 187-3

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

This is a recovery test case written to cover both Service Provider systems that DO and DO NOT support Linked Replies, thus, this test case will supersede TC 8.3 from the NPAC SMS/Service Provider Certification & Regression Test Plan

A. TEST IDENTITY

Test Case Number:	**NANC 187-4**	**SUT Priority:**	**SOA**	Required
			LSMS	N/A
Objective:	SOA – Service Provider Personnel submit a resynchronization request for Service Provider Data, Network Data and Notification Data by time range, over the SOA to NPAC SMS Interface, with the Service Provider's SOA Linked Replies Indicator set to their production setting. The recovery response includes a number of Service Provider Data objects, and Network Data objects less than or equal to the Service Provider and Network Data Linked Replies Blocking Factor and a number of Notifications less than or equal to the Notification Data Linked Replies Blocking Factor. - Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 187
NANC FRS Version Number:	3.2.0	**Relevant Requirement(s):**	RR6-92, RR6-89
NANC IIS Version Number:	3.2.0	**Relevant Flow(s):**	B.7.2

C. PREREQUISITE

Prerequisite Test Cases:	

Prerequisite NPAC Setup:	Prerequisite data may be set up different depending on if this test case is being run during Individual testing versus Group Testing. For example, during Individual Testing, if the service provider under test does not support NPA-NXX-X's, don't perform any of the related tasks or verify related data. 1) While the SOA is disconnected from the NPAC SMS, NPAC Personnel should perform the following functions for data within the time range to be': • Create at least one Service Provider. • Create an LRN. • Delete an LRN for a different Service Provider. • Create an NPA-NXX. • Delete an NPA-NXX for a different Service Provider. • Create NPA-NXX-X Information for different Service Providers. • Modify NPA-NXX-X Information for different Service Providers. • Delete NPA-NXX-X Information for different Service Providers. • Activate a Block on behalf of the Service Provider that is 'down' with SOA Origination TRUE. If the SOA under test supports SV Type and/or Optional Data elements include these attributes in the NPB. • Create a Subscription Version with the NPA-NXX created above on behalf of the Old Service Provider and where the Service Provider Under Test is the New Service Provider; let the Initial and Final Concurrence timers expire. • Issue a Scheduled Downtime Notification. • Issue an immediate disconnect for a subscription version where the Service Provider Under Test is the Donor Service Provider. • Issue a Cancel request for a pending Inter-Service Provider Subscription Version for which both service providers have concurred to the pending port, on behalf of the Service Provider Under Test, let the Cancellation Initial Concurrence Timer expire. • Issue a Create request for a range of two pending subscription versions that were initially created by the New Service Provider, on behalf of the Old Service Provider, where the Authorization Flag is set to "False" and provide a Cause Code. • Issue an activate request for an Inter-Service Provider Subscription Version on behalf of the Service Provider Under Test. • Issue an Activate request for a range of two Inter-Service Provider Subscription Versions where a broadcast to the LSMSs goes into a Partial Failure status. 2) While the SOA is in recovery, NPAC personnel should perform the following functions: • Create an NPA-NXX. • Activate a Subscription Version as the Service Provider Under Test. NOTE: If the Service Provider SOA supports Optional Data elements and/or SV Type, these attributes will be included in the Number Pool Block and Subscription Version prerequisite steps above; these attributes will be appropriately included in the notifications recovered. NOTE: If the Service Provider under test supports Medium Timer Indicator, perform the respective prerequisite Subscription Version create requests including the MTI indicator; this attribute will be included in the appropriate notifications recovered.
Prerequisite SP Setup:	The service provider SOA 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 Service Provider establishes an association from their SOA to the NPAC SMS with the	NPAC	The NPAC SMS receives the association bind request from the SOA. Once the association is established, the NPAC SMS queues all current updates.

		resynchronization flag set to TRUE.		
2.	SP	The SOA issues an M-ACTION Request lnpDownload (service provider data) to the NPAC SMS and specifies the time range for the resync request.	NPAC	The NPAC SMS receives the M-ACTION. 1) If the Service Provider's SOA Linked Replies Indicator is set to FALSE, NPAC issues a single, normal M-ACTION Response lnpDownload messages back to the SOA with the Service Provider Data. 2) If the Service Provider's SOA Linked Replies Indicator is set to TRUE, NPAC issues a single, normal M-ACTION Response lnpDownload message back to the SOA with the Service Provider Data updates. The data does not exceed the Service Provider and Network Data Linked Replies Blocking factor, so there shall be only 1 message sent in this instance. NOTE: If the Service Provider Type SOA Indicator is set to TRUE, the SP Type will be included in the downloaded information.
3.	SP	The SOA issues an M-ACTION Request lnpDownload (network data) to the NPAC SMS and specifies the time range for the resync request.	NPAC	The NPAC SMS receives the M-ACTION. 1) If the Service Provider's SOA Linked Replies Indicator is set to FALSE, NPAC issues a single, normal M-ACTION Response lnpDownload messages back to the SOA with the Network Data. 2) If the Service Provider's SOA Linked Replies Indicator is set to TRUE, NPAC issues a single, normal M-ACTION Response lnpDownload message back to the SOA with the Network Data updates. The data does not exceed the Service Provider and Network Data Linked Replies Blocking factor, so there shall be only 1 message sent in this instance.
4.	NPAC	As soon as the M-ACTION Request is received, NPAC Personnel issue a create for an NPA-NXX.	NPAC	The NPAC SMS receives the M-CREATE Request serviceProvNPA-NXX.
5.	NPAC	The NPAC SMS checks to see if the M-CREATE servProvNPA-NXX can be sent to the SOA in recovery.	NPAC	The NPAC SMS does NOT issue the M-CREATE servProvNPA-NXX to the SOA since the SOA is still in recovery.
6.	NPAC	NPAC Personnel issue an SV activate request.	NPAC	The NPAC SMS receives the M-ACTION Request. The NPAC SMS issues an M-SET Request to itself and sets the SV's status to 'sending.' The NPAC SMS issues an M-SET Response to itself.
7.	NPAC	The NPAC SMS checks to see if the M-ACTION subscriptionVersionActivate can be sent to the SOA in recovery.	NPAC	The NPAC SMS does NOT issue the M-ACTION subscriptionVersionActivate to the SOA since the SOA is still in recovery.
8.	NPAC	The NPAC SMS checks to see if the M-EVENT-REPORT objectCreation can be sent to the SOA in recovery.	NPAC	The NPAC SMS does NOT issue the M-EVENT-REPORT objectCreation to the SOA since the SOA is still in recovery.
9.	SP	The SOA Service Provider issues an M-ACTION Request lnpNotificationRecovery (notification data) to the NPAC SMS and specifies a time range.	NPAC	The NPAC SMS receives the M-ACTION Request from the SOA. 1) If the Service Provider's SOA Linked Replies Indicator is set to FALSE, NPAC issues a single, normal M-ACTION Response lnpDownload messages back to the SOA with the Notification updates. 2) If the Service Provider's SOA Linked Replies Indicator is

				set to TRUE, NPAC issues a single, normal M-ACTION Response lnpDownload message back to the SOA with Notification updates. The data does not exceed the Notification Data Blocking factor, so there shall be only 1 message sent in this instance. NOTE: If the Service Provider SOA supports Optional Data elements and/or SV Type, these attributes will be included in the numberPoolBlock-objectCreation and subscriptionVersion-objectCreation notifications recovered. NOTE: If the Service Provider under test supports Medium Timer Indicator, perform the respective prerequisite SV create requests including the MTI indicator; this attribute will be included in the subscriptionVersion-objectCreation (including Range) notifications.
10.	SP	The SOA Service Provider issues an M-ACTION Request lnpRecovery to the NPAC SMS to set the resynchronization flag to FALSE.	NPAC	• The NPAC SMS receives the M-ACTION Request from the SOA and sets the resynchronization flag to 'off'.
11.	NPAC	NPAC SMS issues the following messages to the SOA for the request made while the SOA was in recovery: • M-CREATE Request serviceProvNPA-NXX for the NPA-NXX that was created during recovery. • The NPAC SMS will issue, depending upon the new service provider's TN Range Notification Indicator, a subscriptionVersionStatusAttributeValueChange or subscriptionVersionRangeStatusAttributeValueChange M-EVENT-REPORT notifications to the new service provider SOA of the status change using an M-EVENT-REPORT subscriptionVersionStatusAttributeValueChange	SP	The service provider's SOA receives the requests from the NPAC SMS for the requests that occurred during recovery and issues the following responses: • M-CREATE Response serviceProvNPA-NXX for the NPA-NXX that was created during recovery, indicating the SOA successfully received/processed the request. • M-EVENT-REPORT Confirmation for the subscription version that NPAC personnel activated on behalf of the service provider during recovery, indicating the SOA successfully received the M-EVENT-REPORT.
12.	SP	The SOA receives the M-ACTION Response from the NPAC SMS with the data updates since the association was re-established.		
13.	NPAC	NPAC Personnel verify the data was sent in the action response.	NPAC	Verify that the appropriate data was sent.
14.	SP	Service Provider Personnel, using the SOA, perform a local query for the actions taken in this test case.	SP	Verify that the following updates were made: • Service Provider create(s) based on prerequisite data; If the Service Provider Type SOA Indicator is set to TRUE, the SP Type will be included. • 1 LRN create. • 1 LRN delete. • 1 NPA-NXX create.

				• 1 NPA-NXX delete. • 1 NPA-NXX-X create – if supported by the Service Provider SOA. • 1 NPA-NXX-X modify – if supported by the Service Provider SOA. • 1 NPA-NXX-X delete – if supported by the Service Provider SOA. • 1 First port of NPA-NXX notification. • 1 numberPoolBlock-objectCreation including SV Type and/or Optional Data elements– if the SOA under test supports blocks and these attributes. • objectCreation notification and for the SV created where SP under test is NSP. • 1 Scheduled Downtime notification. • statusAttributeValueChange notification for the immediate disconnect initiated during prerequisite steps. • statusAttributeValueChange notification for the SV canceled during prerequisite steps. • attributeValueChange notification (or range notification depending on whether the SP under test supports range notifications) for the SV range created by the OSP in response to a NSP (SUT) create during prerequisite steps. • statusAttributeValueChange for the SV activate indicated in the prerequisite steps. • 1 NPA-NXX create after recovery is complete • 1 Subscription Version activate after recovery is complete

E. Pass/Fail Analysis, NANC 187-4

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

A. TEST IDENTITY

Test Case Number:	**NANC 187-5**	**SUT Priority:**	**SOA**	Required
			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 SOA Linked Replies Indicator set to their production setting. The recovery response includes a number of Network Data objects and Notifications greater than the respective Linked Replies Blocking Factor and less than the respective Maximum Linked Recovered Notifications. - Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 187
NANC FRS Version Number:	3.2.0	**Relevant Requirement(s):**	RR6-85, RR6-86, RR6-84, RR6-92, RR6-89, RR6-94, RR6-91
NANC IIS Version Number:	3.2.0	**Relevant Flow(s):**	B.7.3~~2~~

C. PREREQUISITE

Prerequisite Test Cases:	

Prerequisite NPAC Setup:	Prerequisite data may be set up different depending on if this test case is being run during Individual testing versus Group Testing in order to meet test case objectives. Evaluate each service provider's capabilities and tailor the prerequisite data to meet the test case objective. Consider which category the service provider under test fits into: • The service provider under test does not support linked replies or ranged notifications. • The service provider under test supports linked replies but does not support ranged notifications. • The service provider under test supports linked replies and ranged notifications. Set the Service Provider and Network Data Blocking Factor parameter to a low number (for example 5 – to create linked replies based on the network data in the prerequisites that follow). While the SOA is disconnected from the NPAC SMS, NPAC Personnel should perform the following functions for data within the time range to be resync'd: a) Activate a Block on behalf of the Service Provider that is 'down' with SOA Origination TRUE. If the SOA under test supports SV Type and/or Optional Data elements attributes include these in the number pool block. (NPB group a) b) Create a range of 10 Subscription Versions on behalf of the Old Service Provider and where the Service Provider Under Test is the New Service Provider; let the Initial Concurrence timer expire. When you create, do this in two ranges, where the last half of the TNs in the range is the first range that you create. In a second request, create the first half of the TNs in the range. (SV group b^2 and SV group b^1) c) Issue a Scheduled Downtime Notification. d) Issue an immediate disconnect for 20 subscription versions where the Service Provider Under Test is the Donor Service Provider. (SV group d) e) Issue a Cancel request for each subscription version in a range of 10 pending Inter-Service Provider Subscription Versions for which both service providers have concurred to the pending port, on behalf of the Service Provider Under Test, let each Cancellation Initial Concurrence Timer expire for each of the TNs that were cancelled. (SV group e) f) On behalf of the service provider under test, acting as the Old service provider, issue a Create request for a range of 20 pending subscription versions that were initially created by the New Service Provider, where the Authorization Flag is set to "False" and provide a Cause Code. (SV group f) g) After the Initial Concurrence Timer has expired, but prior to the Final Concurrence Timer expiration, on behalf of the service provider under test, where they are the 'New' service provider, concur to the range created in (b) above. (SV group g _____). h) Create 10 LRNs. (LRN group h) i) Create 15 NPA-NXXs. (NPA-NXX group i) j) Modify the NPA-NXX Effective Date for an NPA-NXX where the current date is less than the existing Effective Date and no pending-like SVs, NPA-NXX-Xs or NPBs exist for the respective NPA-NXX. (NPA-NXX group j) k) If the SUT's, S-3.00 C, Attribute Value Change, For Mass Update of Active SVs and NPBs notification priority is set to a value other than NONE, issue a Mass Update for non-pooled Subscription Versions and NPBs/pooled Subscription Versions. (SV/NPB group k) NOTE: If the Service Provider SOA supports Optional Data elements and/or SV Type, these attributes will be included in the Number Pool Block and Subscription Version prerequisite steps above; these attributes will be appropriately included in the notifications recovered. NOTE: If the Service Provider under test supports Medium Timer Indicator, perform the respective prerequisite Subscription Version create requests including the MTI indicator; this attribute will be included in the appropriate notifications recovered.

Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	The Service Provider establishes an association from their SOA to the NPAC SMS with the resynchronization flag set to TRUE.	NPAC	The NPAC SMS receives the association bind request from the SOA. Once the association is established, the NPAC SMS queues all current updates.
2. conditional	SP	The SOA issues an M-ACTION Request lnpDownload (network data) to the NPAC SMS and specifies a time range.	NPAC	The NPAC SMS receives the M-ACTION Request from the SOA: 1) If the Service Provider's SOA Linked Replies Indicator is set to FALSE, NPAC issues single, normal M-ACTION Response lnpDownload message back to the SOA with the network data updates for • LRN group h • NPA-NXX group i • Modified NPA-NXX (NPA-NXX group j). 2) If the Service Provider's SOA Linked Replies Indicator is set to TRUE, NPAC issues multiple, linked M-ACTION replies, lnpDownload followed by a non-linked, empty, normal response (indicating the end of the linked reply data) back to the SOA with the network data updates. These messages shall be linked for groups of (5) objects (based on the special Service Provider and Network Data Linked Replies Blocking Factor setting for this test case) – there should be 5 linked replies.
3.	SP	The SOA Service Provider issues an M-ACTION Request lnpNotificationRecovery (notification data) to the NPAC SMS and specifies a time range.	NPAC	The NPAC SMS receives the M-ACTION Request from the SOA. 1) If the Service Provider's SOA Linked Replies Indicator is set to FALSE, NPAC issues a single, normal M-ACTION Response lnpDownload message back to the SOA with the Notification updates. • Number Pool Block object Creation Notification for (NPB group a). If the SOA under test supports SV Type and/or Optional Data elements these attributes are included in the notification. • Subscription Version New SP Create Request Notification or if the SOA supports ranges, Subscription Version Range New SP-Create Request for (SV group b) • Downtime Notification • Subscription Version Donor SP – Customer Disconnect Date or if the SOA supports ranges, Subscription Version Range Donor SP – Customer Disconnect Date for (SV group d) • Subscription Version Status Attribute Value Change Notification for (SV group e) • Subscription Version Status Attribute Value Change or if the SOA supports ranges, Subscription Version Range Status Attribute Value Change for (SV group f) • Subscription Version Status Attribute Value Change or if the SOA supports ranges, Subscription Version Range

				Status Attribute Value Change with a SVID list for (SV group g^2 and SV group g^1) **NOTE:** If the SUT's S-3.00 C Attribute Value Change for Mass Update of Active SVs and NPBs notification priority is set to a value other than NONE, they will receive M-EVENT-REPORT AttributeValueChange notifications for the modified attributes. This will be a subscriptionVersionAttributeValueChange for the non-pooled Subscription Versions and/or numberPoolBlockAttributeValueChange to the Current/Block Holder Service Provider *if* the numberPoolBlockSOA-OriginationIndicator is set to TRUE. (SV/NPB group k) 2) If the Service Provider's SOA Linked Replies Indicator is set to TRUE, NPAC issues multiple, linked M-ACTION replies, lnpDownload, followed by a non-linked, empty, normal response (indicating the end of the linked reply data) back to the SOA with Notification updates. The data does exceeds the Notification Data Blocking factor, so there shall be at least (2) messages sent in this instance. NOTE: If the Service Provider SOA supports Optional Data elements and/or SV Type, these attributes will be included in the appropriate Number Pool Block and Subscription Version notifications. NOTE: If the Service Provider under test supports Medium Timer Indicator, this attribute will be included in the appropriate notifications.
4.	SP	The SOA Service Provider issues an M-ACTION Request lnpRecovery to the NPAC SMS to set the resynchronization flag to FALSE.	NPAC	The NPAC SMS receives the M-ACTION Request from the SOA and sets the resynchronization flag to 'off'.
5.		There weren't any actions taken while the Service Provider was in recovery so there aren't any subsequent actions to send/receive/or verify.		
6.	SP	Service Provider Personnel, using the SOA, perform a local query for the actions taken in this test case.	SP	Verify that the notifications were received: • Number Pool Block object Creation Notification for (NPB group a). If the SOA under test supports SV Type and/or Optional Data elements these attributes are included in the notification. • Subscription Version New SP Create Request Notification or if the SOA supports ranges, Subscription Version Range New SP Create Request for (SV group b) • Downtime Notification • Subscription Version Donor SP – Customer Disconnect Date or if the SOA supports ranges, Subscription Version Range Donor SP – Customer Disconnect Date for (SV group d) • Subscription Version Status Attribute Value Change Notification for (SV group e) • Subscription Version Status Attribute Value Change or if the SOA supports ranges, Subscription Version Range

				Status Attribute Value Change for (SV group f) • Subscription Version Status Attribute Value Change or if the SOA supports ranges, Subscription Version Range Status Attribute Value Change with a SVID list for (SV group g^2 and SV group g^1) If the SUT's S-3.00 C Attribute Value Change for Mass Update of Active SVs and NPBs notification priority is set to a value other than NONE, they will receive M-EVENT-REPORT AttributeValueChange notifications for the modified attributes. This will be a subscriptionVersionAttributeValueChange for the non-pooled Subscription Versions and/or numberPoolBlockAttributeValueChange to the Current/Block Holder Service Provider *if* the numberPoolBlockSOA-OriginationIndicator is set to TRUE. (SV/NPB group k) • Verify the following network data changes are reflected: • LRN group h was created • NPA-NXX group i was created • NPA-NXX group j reflects the modified NPA-NXX Effective Date NOTE: If the Service Provider SOA supports Optional Data elements and/or SV Type, these attributes will be included in the Number Pool Block and Subscription Version prerequisite steps above; these attributes will be appropriately included in the notifications recovered NOTE: If the Service Provider under test supports Medium Timer Indicator, perform the respective prerequisite Subscription Version create requests including the MTI indicator; this attribute will be included in the appropriate notifications recovered.

E. Pass/Fail Analysis, NANC 187-5

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

A. TEST IDENTITY

Test Case Number:	**NANC 187-6**	**SUT Priority:**	**SOA**	Required
			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 SOA Linked Replies Indicator set to their production setting. The recovery response includes a number of Network Data objects greater than the Service Provider and Network Data Maximum Linked Recovered Objects and Notifications greater than the Notification Data Maximum Linked Recovered Notifications and Maximum Number of Download Records. - Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 187
NANC FRS Version Number:	3.2.0	**Relevant Requirement(s):**	RR6-94, RR6-91
NANC IIS Version Number:	3.2.0	**Relevant Flow(s):**	B.7.2

C. PREREQUISITE

Prerequisite Test Cases:	

Prerequisite NPAC Setup:	1) Decide what the Notification Data Maximum Linked Recovered Notifications setting should be for this test case and then substitute the 'X number references' following in order to exceed this parameter setting. 2) Decide what the Service Provider and Network Data Maximum Linked Recovered Objects setting should be for this test case and then substitute the 'X number references' following in order to exceed this parameter setting. 3) While the SOA is disconnected from the NPAC SMS, NPAC Personnel should perform the following functions for data within the time range to be resync'd: a) Create X number Subscription Versions on behalf of the Old Service Provider and where the Service Provider Under Test is the New Service Provider; let the Initial Concurrence timer expire. (SV group a) b) Modify X number of Subscription Versions on behalf of the Old Service Provider, the Service Provider under test, setting authorization to false with a valid cause code (SV group b) c) Issue an immediate disconnect for X number subscription versions where the Service Provider Under Test is the Donor Service Provider. (SV group c). d) Activate a Number Pool Block on behalf of the Service Provider under test. (NPB group d) (If the SOA under test supports SV Type and/or Optional Data elements include these attributes in the number pool block. e) Issue a Cancel request for a range of X number pending Inter-Service Provider Subscription Version for which both service providers have concurred to the pending port, on behalf of the Service Provider Under Test, let the Cancellation Initial Concurrence Timer expire. (SV group e) f) Issue a Create request for a range of 20 pending subscription versions that were initially created by the New Service Provider, on behalf of the Old Service Provider, where the Authorization Flag is set to "False" and provide a Cause Code. (SV group f) g) Create X number of LRNs on behalf of the service provider under test. (LRN group g) h) Create X number of NPA-NXXs on behalf of the service provider under test. (NPA-NXX group h). NOTE: If the Service Provider SOA supports Optional Data elements and/or SV Type, these attributes will be included in the Number Pool Block and Subscription Version prerequisite steps above; these attributes will be appropriately included in the notifications recovered. NOTE: If the Service Provider under test supports Medium Timer Indicator, perform the respective prerequisite Subscription Version create requests including the MTI indicator; this attribute will be included in the appropriate notifications recovered.
Prerequisite SP Setup:	The service provider SOA 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 Service Provider establishes an association from their SOA to the NPAC SMS with the resynchronization flag set to TRUE.	NPAC	The NPAC SMS receives the association bind request from the SOA. Once the association is established, the NPAC SMS queues all current updates.
2.	SP	The SOA issues an M-ACTION Request lnpDownload (network data) to the NPAC SMS and specifies the time range for the resync request.	NPAC	The NPAC SMS receives the M-ACTION Request from the SOA and determines that for the time range requested, the Network Data exceeds the Service Provider and Network Data Maximum Recovered Objects parameter (if the service provider supports linked replies) or the Maximum Number of Download Records (if the service provider does not support linked replies). The NPAC SMS issues an M-ACTION Response lnpDownload, **Criteria-too-large** to the requesting SOA.

3.	SP	After receiving the M-ACTION Response 'Criteria-to-large' the SOA issues an M-ACTION Request lnpDownload (network data) to the NPAC SMS and specifies a smaller time range (than that indicated in row 2 above) for the resync request. Note: Row 2 may occur over and over until the M-ACTION Request indicates a time range that yields data less than the 'Service Provider and Network Data Maximum Linked Recovered Objects' for service provider's that support Linked Replies – or less than the Maximum Number of Download Records for those service provider's that don't support Linked Replies.	NPAC	Once the NPAC SMS receives an M-ACTION request that specifies time range that yields an amount of data less than the 'Service Provider and Network Data Maximum Linked Recovered Objects' for service provider's that support Linked Replies, or less than the 'Maximum Number of Download Records' for service provider's that don't support Linked Replies: 1) If the Service Provider's SOA Linked Replies Indicator is set to FALSE, NPAC issues a single M-ACTION Response lnpDownload message back to the SOA with the Network Data updates for • LRN group g • NPA-NXX group h 2) If the Service Provider's SOA Linked Replies Indicator is set to TRUE, NPAC issues multiple, linked M-ACTION replies, lnpDownload, followed by a non-linked, empty, normal response (indicating the end of the linked reply data) back to the LSMS with the Network Data updates. These messages shall be linked for groups of (X) objects – there should be (X)linked replies.
4.	SP	The SOA issues an M-ACTION Request lnpDownload (notification data) to the NPAC SMS and specifies the time range for the resync request.	NPAC	The NPAC SMS receives the M-ACTION Request from the SOA and determines that for the time range requested, the Notification Data exceeds the Notification Data Maximum Recovered Notifications parameter (if the service provider supports linked replies) or the Maximum Number of Download Records (if the service provider does not support linked replies). The NPAC SMS issues an M-ACTION Response lnpDownload, **Criteria-too-large** to the requesting SOA.
5.	SP	After receiving the M-ACTION Response 'Criteria-to-large' the SOA issues an M-ACTION Request lnpDownload (notification data) to the NPAC SMS and specifies a smaller time range (than that indicated in row 2 above) for the resync request. Note: Row 4 may occur over and over until the M-ACTION Request indicates a time range that yields data less than the 'Notification Data Maximum Linked Recovered Notifications' for service provider's that support Linked Replies – or less than the Maximum Number of Download Records for those service provider's that don't support Linked Replies.	NPAC	Once the NPAC SMS receives an M-ACTION request that specifies time range that yields an amount of data less than the 'Notification Data Maximum Linked Recovered Notifications for service provider's that support Linked Replies, or less than the 'Maximum Number of Download Records' for service provider's that don't support Linked Replies: 1) If the Service Provider's SOA Linked Replies Indicator is set to FALSE, NPAC issues a single M-ACTION Response lnpDownload message back to the SOA with the Notification Data updates for • Subscription Version New SP Create Request Notification or if the SOA supports ranges, Subscription Version Range New SP Create Request for (SV group a) • Subscription Version Status Attribute Value Change or if the SOA supports ranges, Subscription Version Range Status Attribute Value Change for (SV group b) • Subscription Version Status Attribute Value Change or if the SOA supports ranges, Subscription Version Range Status Attribute Value Change for (SV group c) • If SOA Origination is marked as TRUE, Number Pool Block object Creation notification for (NPB group d). If the SOA under test supports SV Type and/or Optional Data elements these attributes are included in the notification.

				• Subscription Version Status Attribute Value Change or if the SOA supports ranges, Subscription Version Range Status Attribute Value Change for (SV group e) • Subscription Version Status Attribute Value Change or if the SOA supports ranges, Subscription Version Range Status Attribute Value Change for (SV group f) 2) If the Service Provider's SOA Linked Replies Indicator is set to TRUE, NPAC issues multiple, linked M-ACTION replies, lnpDownload, followed by a non-linked, empty, normal response (indicating the end of the linked reply data) back to the LSMS with the Notification Data updates. These messages shall be linked for groups of (X) objects – there should be (X) linked replies. NOTE: If the Service Provider SOA supports Optional Data elements and/or SV Type, these attributes will be included in the appropriate Number Pool Block and Subscription Version notifications. NOTE: If the Service Provider under test supports Medium Timer Indicator, this attribute will be included in the appropriate notifications.
6.	SP	The SOA Service Provider issues an M-ACTION Request lnpRecoveryComplete to the NPAC SMS to set the resynchronization flag to FALSE.	NPAC	The NPAC SMS receives the M-ACTION Request from the SOA and replies back to the SOA with data updates at the next scheduled interval for the NPA-NXX that was created during resynchronization and the Subscription Version that was activated during resynchronization.
7.	SP	The SOA receives the M-ACTION Response from the NPAC SMS.		
8..	NPAC	NPAC Personnel verify that no data was sent in the initial action response for notification data.	NPAC	Verify that no data was sent in the initial action response for notification data. Note to Test Engineers: NPAC Personnel may watch the router of the service provider under test to verify the 1st request for notification data resulted in a 'criteria-too-large' response.

E. Pass/Fail Analysis, NANC 187-6

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

12.3 NANC 191 DPC/SSN Value Edits and NANC 291 SSN Edits in the NPAC SMS

NOTE: Identify combinations of valid/invalid DPC/SSN values for each Service Provider under test for a minimum of CNAM, CLASS, ISVM and LIDB even if the Service Provider under test does not support all of these enhanced features in production. If the Service Provider supports WSMSC data – this must also be included in the NANC 191/291 test case test data suite.

Service Provider's whose systems cannot create the 'failure' scenarios that follow pass those test cases be default. If their system does not 'stop' the invalid message before it goes across the interface, then their system must be able to successfully execute the test case and handle the failure response from the NPAC SMS.

A. TEST IDENTITY

Test Case Number:	**NANC 191/291-1**	**SUT Priority:**	**SOA**	Required
			LSMS	N/A
Objective:	SOA – Service Provider Personnel attempt to create a Subscription Version specifying some valid and some invalid DPC/SSN information. The regional SSN Edit Flags (CLASS, LIDB, CNAM, ISVM and WSMSC) are set to production values. - Failure			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 191/NANC 291
NANC FRS Version Number:	3.2.0a	**Relevant Requirement(s):**	RR3-380, RR3-381, RR3-382, RR3-383, RR3-384, RR3-385, RR3-386, RR3-387, RR3-388, RR3-389, RR3-375, RR3-376, RR3-377, RR3-378, RR3-378
NANC IIS Version Number:	3.2.0a	**Relevant Flow(s):**	B.5.1.1

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify the NPA-NXX exists and is open for porting for the TN that is going to be used during this test case. 2. Verify that the LRN exists for the Service Provider under test. 3. Verify that the 'SSN Edit Flag' indicators are set to production settings for the regions in which the Service Provider under test operates. If the Service Provider operates in regions where the 'SSN Edit Flag' indicators may be set to different settings, be sure to test all scenarios with the Service Provider.

Prerequisite SP Setup:	For Row 1 of the test steps that follow use some combination of the following 'invalid' DPC/SSN data entry scenarios to create a Subscription Version request with invalid DPC/SSN data: If the 'SSN Edit Flags' are set to TRUE, invalid data would include • Specifying DPC values of (network 001-255, cluster 000-255, member 000-255) and corresponding SSN values **other than** (000). • Specifying DPC values **other than** (network 001-255, cluster 000-255, member 000-255) and corresponding SSN values of (000). • Specifying DPC values **other than** (network 001-255, cluster 000-255, member 000-255) and corresponding SSN values **other than** (000). If the 'SSN Edit Flags' are set to FALSE, invalid data would include • Specifying DPC values **other than** (network 001-255, cluster 000-255, member 000-255) when the SSN value is between 000-255. • Specifying DPC values **other than** (network 001-255, cluster 000-255, member 000-255) and also not specifying a value for the corresponding SSN value. • Specifying DPC values **other than** (network 001-255, cluster 000-255, member 000-255) and also not specifying a valid SSN value is between 000-255.

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 Subscription Version Create request for a single TN. 2. The SOA system sends an M-ACTION Request subscriptionVersionNewSP-Create to the NPAC SMS to create the subscriptionVersionNPAC (Subscription Version) on the NPAC SMS. The following attributes must be specified: • subscriptionTN or a valid subscriptionVersionTN-Range • subscriptionNewCurrentSP • subscriptionOldSP • subscriptionNewSP-DueDate (seconds set to zero) • subscriptionLNPType • subscriptionLRN • subscriptionNewSPMediumTimerIndicator – if supported by the Service Provider SOA Specify a combination of valid and invalid DPC/SSN data for the following attributes. • subscriptionCLASS-DPC • subscriptionCLASS-SSN • subscriptionLIDB-DPC	NPAC	The NPAC SMS receives the M-ACTION Request from the Request from the Service Provider's SOA and determines the following: The request contains invalid DPC/SSN data based on system requirements and the regional 'SSN Edit Flag' settings. **(This violates system requirements.)**

		• 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		
2.	NPAC	The NPAC SMS issues an M-ACTION Response failure indicating an error with the request to the SOA.	SP	The Service Provider SOA receives the M-ACTION 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	Service Provider Personnel, perform a local query for the Subscription Version.	SP	Verify that the Subscription Version does not exist on the local database.

E. Pass/Fail Analysis, NANC 191/291 - 1

Pass	Fail	NPAC Personnel performed the test case as written for each 'SSN Edit Flag' indicator setting for which the Service Provider under test may operate in production.
Pass	Fail	Service Provider Personnel performed the test case as written for each 'SSN Edit Flag' indicator setting where they may operate in production.

A. TEST IDENTITY

Test Case Number:	**NANC 191/291-2**	**SUT Priority:**	**SOA**	Required
			LSMS	N/A
Objective:	SOA – Service Provider Personnel attempt to modify a 'Pending' Subscription Version specifying some valid and some invalid DPC/SSN information. The regional SSN Edit Flags (CLASS, LIDB, CNAM, ISVM and WSMSC) are set to production values. - Failure			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 191/NANC 291
NANC FRS Version Number:	3.2.0a	**Relevant Requirement(s):**	RR3-380, RR3-381, RR3-382, RR3-383, RR3-384, RR3-385, RR3-386, RR3-387, RR3-388, RR3-389, RR3-405, RR3-406, RR3-407, RR3-408, RR3-409, RR3-375, RR3-376, RR3-377, RR3-378, RR3-378
NANC IIS Version Number:	3.2.0a	**Relevant Flow(s):**	B.5.2.3 or B.5.2.4

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify that the 'SSN Edit Flag' indicators are set to production settings for the regions in which the Service Provider under test operates. If the Service Provider operates in regions where the 'SSN Edit Flag' indicators may be set to different settings, be sure to test all scenarios with the Service Provider. 2. Verify that a 'pending' subscription version exists for the TN that is going to be used during this test case.
Prerequisite SP Setup:	For Row 1 of the test steps that follow use some combination of the following 'invalid' DPC/SSN data entry scenarios to modify a Subscription Version request with invalid DPC/SSN data: If the 'SSN Edit Flags' are set to TRUE, invalid data would include • Specifying DPC values of (network 001-255, cluster 000-255, member 000-255) and corresponding SSN values **other than** (000). • Specifying DPC values **other than** (network 001-255, cluster 000-255, member 000-255) and corresponding SSN values of (000). • Specifying DPC values **other than** (network 001-255, cluster 000-255, member 000-255) and corresponding SSN values **other than** (000). If the 'SSN Edit Flags' are set to FALSE, invalid data would include • Specifying DPC values **other than** (network 001-255, cluster 000-255, member 000-255) when the SSN value is between 000-255. • Specifying DPC values **other than** (network 001-255, cluster 000-255, member 000-255) and also not specifying a value for the corresponding SSN value. • Specifying DPC values **other than** (network 001-255, cluster 000-255, member 000-255) and also not specifying a valid SSN value is between 000-255.

D. TEST STEPS and EXPECTED RESULTS

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

1.	SP	Using their SOA system, Service Provider Personnel submit a request to the NPAC SMS to modify a single TN, 'Pending' Subscription Version that already exists on the NPAC SMS. 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. The following attributes must be specified: Specify a combination of valid and invalid DPC/SSN data for the following attributes. • 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 Service Provider SOA submits an M-ACTION Request subscriptionVersionModify or an M-SET Request subscriptionVersionNPAC (depending on the system implementation) to the NPAC SMS lnpSubscription object to update the 'Pending' Subscription Version.	NPAC	The NPAC SMS receives the M-ACTION/M-SET Request from the Service Provider's SOA and determines the following: The request contains invalid DPC/SSN data based on system requirements and the regional 'SSN Edit Flag' settings. **(This violates system requirements.)**
2.	NPAC	The NPAC SMS issues an M-ACTION Response failure or M-SET Response failure (depending on the message received in Row 1) indicating an error with the request to the SOA.	SP	The Service Provider SOA receives the Response from the NPAC SMS.
3.	NPAC	NPAC Personnel perform a query for the Subscription Version.	NPAC	NPAC Personnel verify that the Subscription Version exists with a status of 'Pending' however, the attributes were not modified.
4.	SP	Service Provider Personnel, perform a local query for the Subscription Version.	SP	Verify that the Subscription Version exists on the local database with the original attribute values.

E. Pass/Fail Analysis, NANC 191/291 - 2

Pass	Fail	NPAC Personnel performed the test case as written for each 'SSN Edit Flag' indicator setting for which the Service Provider under test may operate in production.
Pass	Fail	Service Provider Personnel performed the test case as written for each 'SSN Edit Flag' indicator setting where they may operate in production.

A. TEST IDENTITY

Test Case Number:	**NANC 191/291-3**	**SUT Priority:**	**SOA**	Required
			LSMS	N/A
Objective:	SOA – Service Provider Personnel attempt to activate a 'Pending' Subscription Version that contains some valid and some invalid DPC/SSN information. The regional SSN Edit Flags (CLASS, LIDB, CNAM, ISVM and WSMSC) are set to production values. - Failure			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 191/NANC 291
NANC FRS Version Number:	3.2.0a	**Relevant Requirement(s):**	RR3-427
NANC IIS Version Number:	3.2.0a	**Relevant Flow(s):**	B.5.1.5

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify that the 'SSN Edit Flag' indicators are set to production settings for the regions in which the Service Provider under test operates. If the Service Provider operates in regions where the 'SSN Edit Flag' indicators may be set to different settings, be sure to test all scenarios with the Service Provider. 2. Verify that a 'Pending' Subscription Version with some combination of the valid and invalid DPC/SSN data scenarios following exists on the NPAC and local databases: If the 'SSN Edit Flags' are set to TRUE, invalid data would include • Specifying DPC values of (network 001-255, cluster 000-255, member 000-255) and corresponding SSN values **other than** (000). • Specifying DPC values **other than** (network 001-255, cluster 000-255, member 000-255) and corresponding SSN values of (000). • Specifying DPC values **other than** (network 001-255, cluster 000-255, member 000-255) and corresponding SSN values **other than** (000). If the 'SSN Edit Flags' are set to FALSE, invalid data would include • Specifying DPC values **other than** (network 001-255, cluster 000-255, member 000-255) when the SSN value is between 000-255. • Specifying DPC values **other than** (network 001-255, cluster 000-255, member 000-255) and also not specifying a value for the corresponding SSN value. • Specifying DPC values **other than** (network 001-255, cluster 000-255, member 000-255) and also not specifying a valid SSN value is between 000-255.
Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	Using their SOA system, Service Provider Personnel submit a request to the NPAC SMS to activate a	NPAC	The NPAC SMS receives the M-ACTION Request from the Service Provider's SOA and determines the following: The request to activate is for a 'Pending' Subscription Version

		single TN, 'Pending' Subscription Version that already exists on the NPAC SMS with valid and invalid DPC/SSN information as described in the prerequisites. The request must specify the subscription version ID, subscription version TN, or a range of subscription version TNs to be activated. The Service Provider SOA submits an M-ACTION Request subscriptionVersionActivate to the NPAC SMS lnpSubscription object to activate the 'Pending' Subscription Version.		that contains invalid DPC/SSN data based on system requirements and the regional 'SSN Edit Flag' settings. **(This violates system requirements.)**
2.	NPAC	The NPAC SMS issues an M-ACTION Response failure indicating an error with the request to the SOA.	SP	The Service Provider SOA receives the Response from the NPAC SMS.
3.	NPAC	NPAC Personnel perform a query for the Subscription Version.	NPAC	NPAC Personnel verify that the Subscription Version exists with a status of 'Pending' and invalid DPC/SSN data.
4.	SP	Service Provider Personnel, perform a local query for the Subscription Version.	SP	Verify that the Subscription Version exists on the local database with the invalid DPC/SSN data.

E. Pass/Fail Analysis, NANC 191/291 - 3

Pass	Fail	NPAC Personnel performed the test case as written for each 'SSN Edit Flag' indicator setting for which the Service Provider under test may operate in production.
Pass	Fail	Service Provider Personnel performed the test case as written for each 'SSN Edit Flag' indicator setting where they may operate in production.

A. TEST IDENTITY

Test Case Number:	**NANC 191/291-4**	**SUT Priority:**	**SOA**	Required
			LSMS	N/A
Objective:	SOA – Service Provider Personnel attempt to modify an 'Active' Subscription Version that contains some valid and some invalid DPC/SSN information. The regional SSN Edit Flags (CLASS, LIDB, CNAM, ISVM and WSMSC) are set to production values. - Failure			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 191/NANC 291
NANC FRS Version Number:	3.2.0a	**Relevant Requirement(s):**	RR3-380, RR3-381, RR3-382, RR3-383, RR3-384, RR3-385, RR3-386, RR3-387, RR3-388, RR3-389, RR3-405, RR3-406, RR3-407, RR3-408, RR3-409, RR3-375, RR3-376, RR3-377, RR3-378, RR3-378
NANC IIS Version Number:	3.2.0a	**Relevant Flow(s):**	B.5.2.1

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify that the 'SSN Edit Flag' indicators are set to production settings for the regions in which the Service Provider under test operates. If the Service Provider operates in regions where the 'SSN Edit Flag' indicators may be set to different settings, be sure to test all scenarios with the Service Provider. 2. Verify that an 'Active' Subscription Version with some combination of the valid and invalid DPC/SSN data scenarios following exists on the NPAC and local databases: If the 'SSN Edit Flags' are set to TRUE, invalid data would include • Specifying DPC values of (network 001-255, cluster 000-255, member 000-255) and corresponding SSN values **other than** (000). • Specifying DPC values **other than** (network 001-255, cluster 000-255, member 000-255) and corresponding SSN values of (000). • Specifying DPC values **other than** (network 001-255, cluster 000-255, member 000-255) and corresponding SSN values **other than** (000). If the 'SSN Edit Flags' are set to FALSE, invalid data would include • Specifying DPC values **other than** (network 001-255, cluster 000-255, member 000-255) when the SSN value is between 000-255. • Specifying DPC values **other than** (network 001-255, cluster 000-255, member 000-255) and also not specifying a value for the corresponding SSN value. • Specifying DPC values **other than** (network 001-255, cluster 000-255, member 000-255) and also not specifying a valid SSN value is between 000-255.
Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	Using their SOA system, Service	NPAC	The NPAC SMS receives the M-ACTION Request from the

		Provider Personnel submit a request to the NPAC SMS to modify a single TN, 'Active' Subscription Version that already exists on the NPAC SMS with valid and invalid DPC/SSN information as described in the prerequisites. The request must specify the TN, TN range, and the version status, or the version ID of the subscription version to be modified; and the data to be modified. Modify any of the following attributes: • subscriptionLRN • subscriptionEndUserLocationValue • subscriptionEndUserLocationType • subscriptionBillingId • The Service Provider SOA submits an M-ACTION Request subscriptionVersionModify to the NPAC SMS lnpSubscription object to modify the 'Active' Subscription Version.		Service Provider's SOA and determines the following: The request to modify the 'Active' Subscription Version contains invalid DPC/SSN data based on system requirements and the regional 'SSN Edit Flag' settings. **(This violates system requirements.)**
2.	NPAC	The NPAC SMS issues an M-ACTION Response failure indicating an error with the request to the SOA.	SP	The Service Provider SOA receives the Response from the NPAC SMS.
3.	NPAC	NPAC Personnel perform a query for the Subscription Version.	NPAC	NPAC Personnel verify that the Subscription Version exists with a status of 'Active' and invalid DPC/SSN data.
4.	SP	Service Provider Personnel, perform a local query for the Subscription Version.	SP	Verify that the Subscription Version exists on the local database with the invalid DPC/SSN data.

E. Pass/Fail Analysis, NANC 191/291 - 4

Pass	Fail	NPAC Personnel performed the test case as written for each 'SSN Edit Flag' indicator setting for which the Service Provider under test may operate in production.
Pass	Fail	Service Provider Personnel performed the test case as written for each 'SSN Edit Flag' indicator setting where they may operate in production.

A. TEST IDENTITY

Test Case Number:	**NANC 191/291-5**	**SUT Priority:**	**SOA**	N/A
			LSMS	Required
Objective:	NPAC OP GUI – NPAC Personnel attempt to submit a mass update request for a range of Subscription Versions that currently exist. Some of these Subscription Versions have valid DPC/SSN data and some of these Subscription Versions have invalid DPC/SSN data. The Mass Update request specifies new DPC/SSN values that will correct some but not all of the Subscription Versions that currently exist with invalid DPC/SSN attributes. The NPAC SMS processes the Mass Update request, modifies some but not all of the DPC/SSN attributes for the range specified in the Mass Update Request and logs the objects that could not be updated to the Mass Update Exception Report. The regional SSN Edit Flags (CLASS, LIDB, CNAM, ISVM and WSMSC) are set to production values. - Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 191/NANC 291
NANC FRS Version Number:	3.2.0a	**Relevant Requirement(s):**	RR3-429
NANC IIS Version Number:	3.2.0a	**Relevant Flow(s):**	B.8.3

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify that the 'SSN Edit Flag' indicators are set to production settings for the regions in which the Service Provider under test operates. If the Service Provider operates in regions where the 'SSN Edit Flag' indicators may be set to different settings, be sure to test all scenarios with the Service Provider. 2. Verify that a range of 'Active' Subscription Versions exists. • One subset range of Subscription Versions should have all valid DPC/SSN. (SV group 2a) • One subset range of Subscription Versions should exist with invalid CNAM DPC/SSN data (all other DPC/SSN data should be valid. (SV group 2b) • One subset range of Subscription Versions should exist with all invalid DPC/SSN data – at a minimum should be CNAM plus at least one other feature set. (SV group 2c) 3. Identify the appropriate TN range to use in this test case _____. 4. Identify DPC/SSN attributes that should be specified in the Mass Update request such that some of the Subscription Versions that currently have invalid DPC/SSN attributes will be corrected, and some will remain invalid.
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 Mass Update request for a range of 'Active'	NPAC	The NPAC SMS searches the Subscription Version database for Subscription Versions that match the input Mass Update criteria. The NPAC SMS determines that a subset of the TNs in the

		Subscription Versions that exist, some with valid DPC/SSN data and some with invalid DPC/SSN (identified in the prerequisites above). Modify CNAM DPC/SSN data, specifying valid values for the following attributes. • subscriptionCNAM-DPC • subscriptionCNAM-SSN		Subscription Version range exist with invalid DPC/SSN data that is not corrected by the new values specified in the Mass Update request. The NPAC SMS makes an entry to the Mass Update Exception report for these TNs, and continues updating the remaining Subscription Versions that meet the Mass Update criteria. request is valid.
2.	NPAC	NPAC SMS sends multiple M-SET(s) for each contiguous range of Subscription Versions that met the Mass Update criteria to all LSMSs that are accepting downloads for the NPA-NXX of the Subscription Versions to update the valid DPC/SSN values.	SP	All LSMSs that are accepting downloads for the NPA-NXXs of the Subscription Versions being updated, receive the M-SET request(s) from the NPAC SMS to modify the DPC/SSN values. The LSMSs issue an M-SET Response(s) indicating they successfully processed the NPAC SMS request(s). These M-SET Requests are for the subscription versions that were successfully updated based on the Mass Update criteria – and does not include those subscription versions that could not be updated based on the Mass Update criteria. The subscription versions that could not be updated are included on the Mass Update Exception report.
3.	NPAC	1. If the current Service Provider's TN Range Notification Indicator is set to TRUE, NPAC SMS issues an M-EVENT-REPORT subscriptionVersionRangeStatusAttributeValueChange for the range of Subscription Versions that were updated indicating the status is now 'Active'. 2. If the current Service Provider's TN Range Notification Indicator is set to 'FALSE', NPAC SMS issues a subscriptionVersionStatusAttributeValueChange for each Subscription Version that was updated, indicating the status is now 'Active'.	SP	The current Service Provider receives the M-EVENT-REPORT from the NPAC SMS and issues an M-EVENT-REPORT response indicating it successfully received the message.
4.	NPAC	NPAC Personnel generate a Mass Update Exception report.	NPAC	Verify that the subset of Subscription Versions (SV group 2c) within the Mass Update criteria that's invalid DPC/SSN data was not corrected by the new specified attributes are included on the report.
5.	SP	Service Provider Personnel perform a local query on their LSMS to verify the Mass Update was completed.	SP	On the LSMS verify: 1. The subset of Subscription Versions (SV group 2c) within the Mass Update request who's invalid DPC/SSN data was not corrected by the new specified DPC/SSN attributes were not updated with the new DPC/SSN values. 2. The subsets of Subscription Versions (SV groups 2a and 2b) within the Mass Update request who's DPC/SSN values were previously valid, or were invalid but the Mass Update specified attributes corrected the previous issues were updated with the new DPC/SSN values.

6.	NPAC	NPAC Personnel perform a full audit for the subscription version range specified in the Mass Update request.	NPAC	Verify that there are no discrepancies found. The subscription versions (SV group 2c) that previously existed with invalid DPC/SSN data that were not corrected by the Mass Update specified attributes – still exist in their previous state. All other subscription versions (SV groups 2a and 2b) specified in the Mass Update criteria were updated appropriately.

E. Pass/Fail Analysis, NANC 191/291 - 5

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

A. TEST IDENTITY

Test Case Number:	**NANC 191/291-6**	**SUT Priority:**	**SOA**	Required
			LSMS	N/A
Objective:	SOA – Service Provider Personnel attempt to create a Number Pool Block specifying some valid and some invalid DPC/SSN information. The regional SSN Edit Flags (CLASS, LIDB, CNAM, ISVM and WSMSC) are set to production values. - Failure			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 191/NANC 291
NANC FRS Version Number:	3.2.0a	**Relevant Requirement(s):**	RR3-390, RR3-391, RR3-392, RR3-393, RR3-394, RR3-395, RR3-396, RR3-397, RR3-398, RR3-399, RR3-400, RR3-401, RR3-402, RR3-403, RR3-404, RR3-375, RR3-376, RR3-377, RR3-378, RR3-378
NANC IIS Version Number:	3.2.0a	**Relevant Flow(s):**	B.4.4.2

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify that the 'SSN Edit Flag' indicators are set to production settings for the regions in which the Service Provider under test operates. If the Service Provider operates in regions where the 'SSN Edit Flag' indicators may be set to different settings, be sure to test all scenarios with the Service Provider. 2. Verify that the NPA-NXX exists and is open for porting for the Number Pool Block that is going to be used during this test case. 3. Verify that the NPA-NXX-X exists respective to the Number Pool Block that is going to be used during this test case. 4. 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. For Row 1 of the test steps that follow use some combination of the following 'invalid' DPC/SSN data entry scenarios to create a Subscription Version request with invalid DPC/SSN data: If the 'SSN Edit Flags' are set to TRUE, invalid data would include • Specifying DPC values of (network 001-255, cluster 000-255, member 000-255) and corresponding SSN values **other than** (000). • Specifying DPC values **other than** (network 001-255, cluster 000-255, member 000-255) and corresponding SSN values of (000). • Specifying DPC values **other than** (network 001-255, cluster 000-255, member 000-255) and corresponding SSN values **other than** (000). If the 'SSN Edit Flags' are set to FALSE, invalid data would include • Specifying DPC values **other than** (network 001-255, cluster 000-255, member 000-255) when the SSN value is between 000-255. • Specifying DPC values **other than** (network 001-255, cluster 000-255, member 000-255) and also not specifying a value for the corresponding SSN value. • Specifying DPC values **other than** (network 001-255, cluster 000-255, member 000-255) and also not specifying a valid SSN value is between 000-255.

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 to the NPAC SMS to create a Number Pool Block. The request must include the following attributes: • numberPoolBlockNPA-NXX-X • numberPoolBlockSPID • numberPoolBlockLRN Specify a combination of valid and invalid DPC/SSN data for the following attributes: • 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	The NPAC SMS receives the M-ACTION numberPoolBlock-Create Request from the Service Provider's SOA and determines the following: The request contains invalid DPC/SSN data based on system requirements and the regional 'SSN Edit Flag' settings. **(This violates system requirements.)**
2.	NPAC	The NPAC SMS issues an M-	SP	The Service Provider SOA receives the M-ACTION Response.

		ACTION Response failure indicating an error with the request to the SOA.		
3.	NPAC	NPAC Personnel perform a query for the Number Pool Block and respective 'Pooled' Subscription Versions Service Provider personnel attempted to schedule during this test case.	NPAC	NPAC Personnel verify that the Number Pool Block and respective 'Pooled' Subscription Versions do not exist on the NPAC SMS.
4.	SP	Service Provider Personnel, perform a local query for the Number Pool Block and the respective 'Pooled' Subscription Versions they attempted to schedule during this test case.	SP	Verify that the Number Pool Block and the respective 'Pooled' Subscription Versions do not exist on the local database.

E. Pass/Fail Analysis, NANC 191/291 - 6

Pass	Fail	NPAC Personnel performed the test case as written for each 'SSN Edit Flag' indicator setting for which the Service Provider under test may operate in production.
Pass	Fail	Service Provider Personnel performed the test case as written for each 'SSN Edit Flag' indicator setting where they may operate in production.

A. TEST IDENTITY

Test Case Number:	**NANC 191/291-7**	**SUT Priority:**	**SOA**	Required
			LSMS	N/A
Objective:	SOA – Service Provider Personnel attempt to modify a Number Pool Block specifying some valid and some invalid DPC/SSN information. The regional SSN Edit Flags (CLASS, LIDB, CNAM, ISVM and WSMSC) are set to production values. - Failure			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 191/NANC 291
NANC FRS Version Number:	3.2.0a	**Relevant Requirement(s):**	RR3-390, RR3-391, RR3-392, RR3-393, RR3-394, RR3-395, RR3-396, RR3-397, RR3-398, RR3-399, RR3-400, RR3-401, RR3-402, RR3-403, RR3-404, RR3-405, RR3-406, RR3-407, RR3-408, RR3-409, RR3-421, RR3-422, RR3-423, RR3-424, RR3-425, RR3-426, RR3-375, RR3-376, RR3-377, RR3-378, RR3-378
NANC IIS Version Number:	3.2.0a	**Relevant Flow(s):**	B.4.4.13

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify that the 'SSN Edit Flag' indicators are set to production settings for the regions in which the Service Provider under test operates. If the Service Provider operates in regions where the 'SSN Edit Flag' indicators may be set to different settings, be sure to test all scenarios with the Service Provider. 2. Verify the Number Pool Block to be modified exists on the NPAC SMS with a status of 'active' and an empty Failed SP List.
Prerequisite SP Setup:	For Row 1 of the test steps that follow use some combination of the following 'invalid' DPC/SSN data entry scenarios to modify a Number Pool Block with invalid DPC/SSN data: If the 'SSN Edit Flags' are set to TRUE, invalid data would include • Specifying DPC values of (network 001-255, cluster 000-255, member 000-255) and corresponding SSN values **other than** (000). • Specifying DPC values **other than** (network 001-255, cluster 000-255, member 000-255) and corresponding SSN values of (000). • Specifying DPC values **other than** (network 001-255, cluster 000-255, member 000-255) and corresponding SSN values **other than** (000). If the 'SSN Edit Flags' are set to FALSE, invalid data would include • Specifying DPC values **other than** (network 001-255, cluster 000-255, member 000-255) when the SSN value is between 000-255. • Specifying DPC values **other than** (network 001-255, cluster 000-255, member 000-255) and also not specifying a value for the corresponding SSN value. • Specifying DPC values **other than** (network 001-255, cluster 000-255, member 000-255) and also not specifying a valid SSN value is between 000-255.

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-SET Request numberPoolBlock to modify a Number Pool Block. The following attributes may be modified: • numberPoolBlockLRN Specify a combination of valid and invalid DPC/SSN data for the following attributes: • 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	NPAC	The NPAC SMS receives the M-SET Request numberPoolBlock from the Service Provider's SOA and determines the following: The request contains invalid DPC/SSN data based on system requirements and the regional 'SSN Edit Flag' settings. **(This violates system requirements.)**
2.	NPAC	The NPAC SMS issues an M-SET Response failure indicating an error with the request to the SOA.	SP	The Service Provider SOA receives the M-SET Response.
3.	NPAC	NPAC Personnel perform a query for the Number Pool Block and respective 'Pooled' Subscription Versions Service Provider personnel attempted to modify during this test case.	NPAC	NPAC Personnel verify that the Number Pool Block and respective 'Pooled' Subscription Versions were not modified on the NPAC SMS.
4.	SP	Service Provider Personnel, perform a local query for the Number Pool Block and the respective 'Pooled' Subscription Versions they attempted to modify during this test case.	SP	Verify that the Number Pool Block and the respective 'Pooled' Subscription Versions were not modified on the local database.

E. Pass/Fail Analysis, NANC 191/291 - 7

Pass	Fail	NPAC Personnel performed the test case as written for each 'SSN Edit Flag' indicator setting for which the Service Provider under test may operate in production.
Pass	Fail	Service Provider Personnel performed the test case as written for each 'SSN Edit Flag' indicator setting where they may operate in production.

A. TEST IDENTITY

Test Case Number:	**NANC 191/291-8**	**SUT Priority: NPAC One Time Only**	**SOA**	N/A
			LSMS	N/A
Objective:	NPAC – Upon Number Pool Block scheduled activation, NPAC SMS fails the Number Pool Block activation based on some invalid DPC/SSN information. The regional SSN Edit Flags (CLASS, LIDB, CNAM, ISVM and WSMSC) are set to production values. - Failure			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 191/NANC 291
NANC FRS Version Number:	3.2.0a	**Relevant Requirement(s):**	RR3-390, RR3-391, RR3-392, RR3-393, RR3-394, RR3-395, RR3-396, RR3-397, RR3-398, RR3-399, RR3-400, RR3-401, RR3-402, RR3-403, RR3-404, RR3-428, RR3-375, RR3-376, RR3-377, RR3-378, RR3-378
NANC IIS Version Number:	3.2.0a	**Relevant Flow(s):**	B.4.4.2

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	NPAC Test Engineers, set SSN Edit Flags to FALSE, create an NPA-NXX-X, schedule a respective Number Pool Block for at least 1 day in the future containing invalid DPC/SSN data (as described below). After the Number Pool Block has been scheduled, but prior to activation, set the SSN Edit Flags to TRUE. Perform test steps as specified below. 1. Verify that the 'SSN Edit Flag' indicators are set to production settings for the regions in which the Service Provider under test operates. If the Service Provider operates in regions where the 'SSN Edit Flag' indicators may be set to different settings, be sure to test all scenarios with the Service Provider. 2. Verify the Number Pool Block create event exists on the NPAC SMS with some combination of the following invalid DPC/SSN data value scenarios: If the 'SSN Edit Flags' are set to TRUE, invalid data would include • Specifying DPC values of (network 001-255, cluster 000-255, member 000-255) and corresponding SSN values **other than** (000). • Specifying DPC values **other than** (network 001-255, cluster 000-255, member 000-255) and corresponding SSN values of (000). • Specifying DPC values **other than** (network 001-255, cluster 000-255, member 000-255) and corresponding SSN values **other than** (000). If the 'SSN Edit Flags' are set to FALSE, invalid data would include • Specifying DPC values **other than** (network 001-255, cluster 000-255, member 000-255) when the SSN value is between 000-255. • Specifying DPC values **other than** (network 001-255, cluster 000-255, member 000-255) and also not specifying a value for the corresponding SSN value. • Specifying DPC values **other than** (network 001-255, cluster 000-255, member 000-255) and also not specifying a valid SSN value is between 000-255.
Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	NPAC	Upon reaching the Number Pool Block scheduled date, the NPAC SMS attempts to automatically 'Create' the Number Pool Block and respective 'Pooled' Subscription Versions for a Number Pool Block create event that has been scheduled with some combination of invalid DPC/SSN information outlined in the prerequisites.	NPAC	The NPAC SMS determines the following: The Number Pool Block and respective 'Pooled' Subscription Version Create request contains invalid DPC/SSN data based on system requirements and the regional 'SSN Edit Flag' settings. **(This violates system requirements.)**
2.	NPAC	The NPAC SMS fails the Number Pool Block Create request and generates appropriate errors.	NPAC	The error log is appropriately updated to reflect the Number Pool Block and respective 'Pooled' Subscription Version create request failure.
3.	NPAC	NPAC Personnel perform a query for the Number Pool Block and respective 'Pooled' Subscription Versions the NPAC SMS attempted to automatically create during this test case.	NPAC	NPAC Personnel verify that the Number Pool Block and respective 'Pooled' Subscription Versions were not created on the NPAC SMS.
4.	SP	Service Provider Personnel, perform a local query for the Number Pool Block and the respective 'Pooled' Subscription Versions the NPAC SMS attempted to automatically create during this test case.	SP	Verify that the Number Pool Block and the respective 'Pooled' Subscription Versions were not created on the local database.

E. Pass/Fail Analysis, NANC 191/291 - 8

Pass	Fail	NPAC Personnel performed the test case as written for each 'SSN Edit Flag' indicator setting for which the Service Provider under test may operate in production.
Pass	Fail	Service Provider Personnel performed the test case as written for each 'SSN Edit Flag' indicator setting where they may operate in production.

A. TEST IDENTITY

Test Case Number:	**NANC 191/291-9**	**SUT Priority:**	**SOA**	N/A
			LSMS	Required
Objective:	NPAC OP GUI – NPAC Personnel attempt to submit a mass update request that includes at least three complete, 'Active' Number Pool Blocks. One of these Number Pool Blocks should currently exist with valid DPC/SSN data, two should exist with invalid DPC/SSN data. The Mass Update criteria shall include all three Number Pool Blocks and the request specifies new DPC/SSN values that will correct one, but not both of the Number Pool Blocks that currently exists with invalid DPC/SSN data. The NPAC SMS processes the Mass Update request, modifies some but not all of the DPC/SSN attributes for the range specified in the Mass Update Request and logs the objects that could not be updated to the Mass Update Exception report. The regional SSN Edit Flags (CLASS, LIDB, CNAM, ISVM and WSMSC) are set to production values. - Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 191/NANC 291
NANC FRS Version Number:	3.2.0a	**Relevant Requirement(s):**	RR3-429
NANC IIS Version Number:	3.2.0a	**Relevant Flow(s):**	B.8.3

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify that the 'SSN Edit Flag' indicators are set to production settings for the regions in which the Service Provider under test operates. If the Service Provider operates in regions where the 'SSN Edit Flag' indicators may be set to different settings, be sure to test all scenarios with the Service Provider. 2. Verify that at least 3 'Active' Number Pool Block exist. • One of these Number Pool Blocks should exist with valid DPC/SSN values. (NPB 2a) • One Number Pool Block should exist with invalid CNAM DPC/SSN data (all other DPC/SSN data should be valid. (NPB 2b) • One Number Pool Block should exist with all invalid DPC/SSN data – at a minimum should be CNAM plus at least one other feature set. (NPB 2c) 3. Identify the appropriate Number Pool Block range to use in this test case _____. 4. Identify DPC/SSN attributes that should be specified in the Mass Update request such that one of the Number Pool Blocks that currently have invalid DPC/SSN attributes will be corrected, and the other Number Pool Block will remain invalid.
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 Mass Update	NPAC	The NPAC SMS receives the Mass Update Request from the NPAC OP GUI and searches the Number Pool Block and

		request that includes at least 3 complete, 'Active' Number Pool Blocks. (Identified in the prerequisites above). Modify CNAM DPC/SSN data, specifying valid values for the following attributes. • subscriptionCNAM-DPC • subscriptionCNAM-SSN		Subscription Version databases for Number Pool Blocks and Subscription Versions that match the input Mass Update criteria. The NPAC SMS determines that a subset of the Number Pool Blocks and Subscription Versions requested exist with invalid DPC/SSN data that is not corrected by the new values specified in the Mass Update request. The NPAC SMS makes an entry to the Mass Update Exception report for these Number Pool Block and Subscription Version objects, and continues updating the remaining Number Pool Blocks and Subscription Versions that meet the Mass Update criteria.
2.	NPAC	NPAC SMS sends to all LSMSs that are accepting downloads for the NPA-NXX(s): • to those EDR LSMSs, NPAC SMS issues M-SET Request(s) numberPoolBlock to update the DPC/SSN data. • to those EDR LSMSs, NPAC SMS issues M-SET Request(s) subscriptionVersion for each contiguous range of non-pooled TN's within the Mass Update TN range to update the DPC/SSN data. • to those non-EDR LSMSs, NPAC SMS issues M-SET Request(s) subscriptionVersion for each contiguous range of 'Pooled' and 'non-Pooled' TNs to update the DPC/SSN data.	SP	All LSMSs that are accepting downloads for the NPA-NXXs of the Number Pool Block objects and Subscription Versions being updated, receive the M-SET requests from the NPAC SMS to modify the DPC/SSN values. The LSMSs issue M-SET Responses indicating they successfully processed the NPAC SMS request. These M-SET Requests are for the Number Pool Blocks and Subscription Versions that were successfully updated based on the Mass Update criteria – and does not include those Number Pool Blocks or Subscription Versions that could not be updated based on the Mass Update criteria. The Number Pool Blocks and Subscription Versions that could not be updated are included on the Mass Update Exception report.
3.	NPAC	1. If the current Service Provider's TN Range Notification Indicator is set to TRUE, NPAC SMS issues an M-EVENT-REPORT subscriptionVersionRangeStatusAttributeValueChange for the range of Subscription Versions that were updated indicating the status is now 'Active'. 2. If the current Service Provider's TN Range Notification Indicator is set to 'FALSE', NPAC SMS issues a subscriptionVersionStatusAttributeValueChange for each Subscription Version that was updated, indicating the status is now 'Active'.	SP	The current Service Provider receives the M-EVENT-REPORT from the NPAC SMS and issues an M-EVENT-REPORT response indicating it successfully received the message.
4.	NPAC	NPAC Personnel generate a Mass Update Exception report.	NPAC	Verify Number Pool Block (NPB 2c) and the respective Subscription Versions within the Mass Update criteria who's invalid DPC/SSN data was not corrected by the new specified attributes are included on the report.
5.	SP	Service Provider Personnel perform	SP	On the LSMS verify:

		a local query on their LSMS to verify the Mass Update was completed.		1. Number Pool Block (NPB 2c) and the respective Subscription Versions within the Mass Update request who's invalid DPC/SSN data was not corrected by the new specified DPC/SSN attributes were not updated with the new DPC/SSN values. 2. Number Pool Blocks (NPB 2a and 2b) and the respective Subscription Versions within the Mass Update request who's DPC/SSN values were previously valid, or were invalid but the Mass Update specified attributes corrected the previous issues were updated with the new DPC/SSN values.
6.	NPAC	NPAC Personnel perform a full audit for the range specified in the Mass Update request.	NPAC	Verify that there are no discrepancies found. Number Pool Block (NPB 2c) and respective Subscription Versions that previously existed with invalid DPC/SSN data that were not corrected by the Mass Update specified attributes – still exist in their previous state. Number Pool Blocks (NPB 2a and 2b) and respective Subscription Versions specified in the Mass Update criteria were updated appropriately.

E. Pass/Fail Analysis, NANC 191/291 - 9

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

12.4 NANC 192 NPA Split NPAC SMS Load File

A. TEST IDENTITY

Test Case Number:	**NANC 192-1**	**SUT Priority:**	**SOA**	Required
			LSMS	Required
Objective:	SOA/LSMS - Service Provider Personnel perform basic LNP functions before, during and after Permissive Dial Period for NPA Splits that are created on the NPAC SMS. - Success			

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

12.5 NANC 218 – Conflict Timestamp Broadcast to SOA

A. TEST IDENTITY

Test Case Number:	**NANC 218-1**	**SUT Priority:**	**SOA**	Required
			LSMS	N/A
Objective:	SOA – (Old) Service Provider Personnel submit a single TN, subscription version modify request specifying Authorization (FALSE) and a valid status change cause code, setting the subscription version status to conflict after both Service Providers have created/concurred to the port, and prior to the Conflict Restriction Window - SUCCESS			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 218
NANC FRS Version Number:	3.2.0a	**Relevant Requirement(s):**	RR5-44.2, RR5-44.3
NANC IIS Version Number:	3.2.0a	**Relevant Flow(s):**	B.5.2.3, B.5.2.4

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify that a Subscription Version with a status of 'Pending' exists for the TN that will be used in the Subscription Version modify request by the Old Service Provider in this test case, exists on the NPAC SMS. 2. Verify that the current time is prior to the Conflict Restriction Window expiration. 3. The Subscription Version that is going to be used during this Test Case should not previously have been put in conflict before, should have never had a status of 'Conflict', and should not have a Conflict Time Stamp value. 4. TN Used:_____
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, Old Service Provider Personnel submit a Subscription Version Modify request for a 'Pending' Subscription Version that has previously been created by the New Service Provider and concurred to by the Old Service Provider. Specify the TN	NPAC	NPAC SMS receives the request from the Old SP SOA and verifies that each attribute specified is valid according to system requirements.

		identified in the prerequisite steps above. 2. The SOA sends either an M-ACTION Request subscriptionVersionModify or an M-SET Request subscriptionVersionNPAC specifying the TN identified in the prerequisite above and setting the subscriptionOldSP-Authorization to FALSE and indicating a valid subscriptionStatusChangeCause Code.		
2.	NPAC	The NPAC SMS: 1. If an M-ACTION Request subscriptionVersionModify was sent, issues an M-ACTION Response back to the Old SP SOA followed by an (internal) M-SET Request subscriptionVersionNPAC and M-SET Response subscriptionVersionNPAC to itself. 2. If an M-SET Request subscriptionVersionNPAC was sent, issues an M-SET Response subscriptionVersionNPAC to the Old SP SOA.	SP	The Old Service Provider SOA receives the Response from the NPAC SMS.
3.	NPAC	NPAC SMS issues an M-EVENT-REPORT to the Old SP SOA based on their Customer TN Range Notification Indicator. 1. If the setting is TRUE, NPAC SMS issues an M-EVENT-REPORT subscriptionVersionRangeAttributeValueChange including the attributes bulleted below: 2…..If the setting is FALSE, NPAC SMS issues an M-EVENT-REPORT attributeValueChange including the attributes bulleted below: • subscriptionNewSP-DueDate • subscriptionOldSP-Authorization (set to FALSE) • subscriptionOldSP-AuthorizationTimeStamp • subscriptionStatusChange CauseCode • subscriptionVersionStatus	SP	The Old Service Provider SOA receives the M-EVENT-REPORT from the NPAC SMS.

		(Conflict) • subscriptionConflictTime Stamp		
4.	SP	Old SP SOA issues an M-EVENT-REPORT Confirmation to the NPAC SMS indicating it successfully received the M-EVENT-REPORT from the NPAC SMS.	NPAC	NPAC SMS receives the M-EVENT-REPORT Confirmation from the Old SP SOA.
5.	SP	At the same time as row 3 above, NPAC SMS issues an M-EVENT-REPORT to the New SP SOA based on their Customer TN Range Notification Indicator. 1. If the setting is TRUE, NPAC SMS issues an M-EVENT-REPORT subscriptionVersionRangeAttributeValueChange including the attributes bulleted below: 2…..If the setting is FALSE, NPAC SMS issues an M-EVENT-REPORT attributeValueChange including the attributes bulleted below: • subscriptionNewSP-DueDate • subscriptionOldSP-Authorization (set to FALSE) • subscriptionOldSP-AuthorizationTimeStamp • subscriptionStatusChange CauseCode • subscriptionVersionStatus (Conflict) • subscriptionConflictTime Stamp	SP	The New Service Provider SOA receives the M-EVENT-REPORT from the NPAC SMS.
6.	SP	New SP SOA issues an M-EVENT-REPORT Confirmation to the NPAC SMS indicating it successfully received the M-EVENT-REPORT from the NPAC SMS.	NPAC	NPAC SMS receives the M-EVENT-REPORT Confirmation from the New SP SOA.
7.	SP	Using their SOA, Old SP Personnel perform a local query for the subscription version modified during this test case.	SP	The subscription version exists with a status of ‘conflict’ and that the ConflictTimeStamp is set appropriately.
8.	NPAC	NPAC Personnel perform a query for the subscription version modified in this test case.	NPAC	The subscription version exists with a status of ‘conflict’.

E. Pass/Fail Analysis, NANC 218-1

Pass	Fail	NPAC Personnel performed the test case as written.

Pass	Fail	Service Provider Personnel performed the test case as written.
Pass	Fail	Service Provider Personnel confirm they received all attributes included in the M-EVENT-REPORT request from the NPAC SMS listed in row 3 above.

This test case will supersede NANC 214-1 in the functional and regression test plan.

A. TEST IDENTITY

Test Case Number:	**NANC 218-2**	**SUT Priority:**	**SOA**	Required
			LSMS	N/A
Objective:	SOA – Old Service Provider personnel successfully put a pending Subscription Version into conflict using an Old Service Provider create after the Conflict Restriction Window Tunable Time has been reached but before the Final Concurrence Timer (T2) has expired. – Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 218
NANC FRS Version Number:	3.2.0.a	**Relevant Requirement(s):**	RR5-44.2, RR5-44.3
NANC IIS Version Number:	3.2.0.a	**Relevant Flow(s):**	Based on B.5.1.4

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	Verify that a New Service Provider pending Subscription Version has been created where the Service Provider under test is the Old Service Provider, the due date is today and the Final Concurrence Timer has not expired.
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, Old Service Provider personnel create a subscriptionVersionOldSP-Create M-ACTION Request with the authorization flag set to "FALSE" for a 'pending' Subscription Version created by the New Service Provider where the due date is today and the Final Concurrence Timer has not expired.	SP	The SOA issues a subscriptionVersionOldSP-Create M-ACTION to the NPAC SMS.
2.	NPAC	The NPAC SMS accepts the M-ACTION Request from the Service Provider.	NPAC	The NPAC SMS sets the Subscription Version to conflict and sets all of the other values from the subscriptionVersionOldSP-Create M-ACTION Request.
3.	NPAC	The NPAC SMS issues an M-ACTION Response.	SP	The SOA receives the successful subscriptionVersionOldSP-Create M-ACTION Response.
4.	NPAC	NPAC SMS issues an M-EVENT-REPORT to the Old SP SOA based on their Customer TN Range Notification Indicator. 1. If the setting is TRUE, NPAC SMS issues an M-EVENT-REPORT	SP	The Old Service Provider SOA receives the M-EVENT-REPORT from the NPAC SMS.

		subscriptionVersionRangeAttributeValue Change including the attributes bulleted below: 2. If the setting is FALSE, NPAC SMS issues an M-EVENT-REPORT attributeValueChange including the attributes bulleted below: • subscriptionVersionID • subscriptionTN • subscriptionOldSP • subscriptionNewCurrentSP • subscriptionOldSP-DueDate (seconds set to zeros) • subscriptionOldSP-Authorization • subscriptionStatusChangeCauseCode • subscriptionOldSP-AuthorizationTimeStamp • subscriptionOldSP-ConflictTimeStamp • subscriptionVersionStatus • subscriptionTimerType – if supported by the Service Provider SOA • subscriptionBusinessType – if supported by the Service Provider SOA • subscriptionOldSPMediumTimerIndicator – if supported by the Service Provider SOA		
5.	SP	Old SP SOA issues an M-EVENT-REPORT Confirmation to the NPAC SMS indicating it successfully received the M-EVENT-REPORT from the NPAC SMS.	NPAC	NPAC SMS receives the M-EVENT-REPORT Confirmation from the Old SP SOA.
6.	NPAC	At the same time as row 4 above, NPAC SMS issues an M-EVENT-REPORT to the New SP SOA based on their Customer TN Range Notification Indicator. 1. If the setting is TRUE, NPAC SMS issues an M-EVENT-REPORT subscriptionVersionRangeAttributeValue Change including the attributes bulleted in step 4 above. 2.If the setting is FALSE, NPAC SMS issues an M-EVENT-REPORT attributeValueChange	SP	The New Service Provider SOA receives the M-EVENT-REPORT from the NPAC SMS.
7.	SP	New SP SOA issues an M-EVENT-REPORT Confirmation to the NPAC SMS indicating it successfully received the M-EVENT-REPORT from the NPAC SMS.	NPAC	NPAC SMS receives the M-EVENT-REPORT Confirmation from the New SP SOA.
8.	SP	Using their SOA, Old SP Personnel perform a local query for the subscription version they created during this test case.	SP	The subscription version exists with a status of 'conflict' and that the ConflictTimeStamp is set appropriately.
9.	NPAC	NPAC Personnel perform a query for the Subscription Version to verify that it has a status of 'conflict'.	NPAC	The Subscription Version has a status of 'conflict', the cause code, the authorization time stamp, the conflict time stamp and the Old Service Provider due date is set and the authorization flag is set to False.

E. Pass/Fail Analysis, NANC 218-2

Pass	Fail	NPAC Personnel performed the test case as written.
Pass	Fail	Service Provider Personnel performed the test case as written.
Pass	Fail	Service Provider Personnel confirm they received all attributes included in the M-EVENT-REPORT request from the NPAC SMS listed in row 4 above.

12.6 NANC 230 – Donor SOA Port-To-Original of Intra-Service Provider Port

A. TEST IDENTITY

Test Case Number:	**NANC 230-1**	**SUT Priority:**	**SOA**	Required
			LSMS	N/A
Objective:	SOA – Service Provider Personnel create an Intra-Service Provider, Port-to-Original Subscription Version where a previously 'Active' Subscription Version exists, that is not part of a Number Pool Block – Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 230
NANC FRS Version Number:	3.2.0a	**Relevant Requirement(s):**	RR5-4, RR5-122, RR5-6.1
NANC IIS Version Number:	3.2.0a	**Relevant Flow(s):**	B.5.1.11

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify that a Subscription Version with a status of 'Active' exists for the TN that will be used in the Intra-Service Provider, Port-to-Original Subscription Version create request in this test case, for the current Service Provider, on the NPAC SMS. 2. The TN that is going to be used during this Test Case should not be part of a Number Pool Block or be associated in any way with an existing NPA-NXX-X on the NPAC SMS. 3. TN Used:_____
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, SP Personnel submit an M-ACTION subscriptionVersionNewSP-Create request to the NPAC SMS for an Intra-Service Provider, Port-to-Original, single TN, Subscription Version for which there is a currently 'Active' Subscription Version for which they are the current Service Provider. 2. The SOA sends an M-ACTION subscriptionVersionNewSP-Create to the NPAC SMS for the single TN and includes only the following attributes:	NPAC	NPAC SMS receives the M-ACTION subscriptionVersionNewSP-Create request from the New/Current SP SOA.

		• subscriptionTN • subscriptionNewCurrentSP • subscriptionOldSP • subscriptionNewSP-DueDate (seconds set to zeros) • subscriptionPortingToOriginal-SPSwitch		
2.	NPAC	NPAC SMS issues an M-CREATE Request subscriptionVersionNPAC to itself for the TN to create the Subscription Version, sets the subscriptionVersionStatus to 'Pending', and sets the subscriptionNewSPCreationTimeStamp, and the subscriptionModifedTimeStamp to the current date and time.	NPAC	NPAC SMS issues an M-CREATE Response to itself.
3.	NPAC	NPAC SMS issues an M-ACTION Response subscriptionVersionNPAC to the New/Current SP indicating it successfully received the Intra-Service Provider, Port-to-Original, Subscription Version create request.	SP	New/Current SP SOA receives the M-ACTION Response.
4.	NPAC	NPAC SMS issues an M-EVENT-REPORT to the New/Current SP SOA based on their Customer TN Range Notification Indicator: 1. If the setting is TRUE, NPAC SMS issues an M-EVENT-REPORT subscriptionVersionRangeObjectCreation specifying the following attributes: • start TN • end TN • start SVID • end SVID • those attributes bulleted below: 2. If the setting is FALSE, NPAC SMS issues an M-EVENT-REPORT objectCreation specifying the following attributes:: • subscriptionVersionId • subscriptionTN The following attributes will also be sent in the ObjectCreation or subscriptionVersionRangeObjectCreation notification: • subscriptionOldSP • subscriptionNewCurrentSP • subscriptionNewSP-DueDate • subscriptionNewSP-CreationTimeStamp • subscriptionVersionStatus	NPAC	New/Current SP SOA receives the M-EVENT-REPORT from the NPAC SMS.

		• subscriptionTimerType (if supported) • subscriptionBusinessType (if supported)		
5.	SP	New/Current SP SOA issues an M-EVENT-REPORT Confirmation to the NPAC SMS indicating it successfully received the M-EVENT-REPORT from the NPAC SMS.	NPAC	NPAC SMS receives the M-EVENT-REPORT Confirmation from the New/Current SP SOA.
6.	SP	Using their SOA, New/Current SP Personnel perform a local query for the Subscription Version created in this test case.	SP	The Subscription Version exists with a status of 'Pending', an LNP type of 'LISP' and the Port-to-Original indicator set to TRUE.
7.	NPAC	NPAC Personnel perform a query for the Subscription Version created in this test case.	NPAC	The Subscription Version exists with a status of 'Pending', an LNP type of 'LISP', and the Port-to-Original indicator set to TRUE.

E. Pass/Fail Analysis, NANC 230-1

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

A. TEST IDENTITY

Test Case Number:	**NANC 230-2**	**SUT Priority:**	**SOA**	Required
			LSMS	N/A
Objective:	SOA – Service Provider Personnel create an Intra-Service Provider, Port-to-Original Subscription Version where a previously 'Active' Subscription Version exists with a matching NPA-NXX-X, after the NPA-NXX-X Creation and prior to the Number Pool Block Activation - Failure			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 230
NANC FRS Version Number:	3.2.0a	**Relevant Requirement(s):**	RR5-121
NANC IIS Version Number:	3.2.0a	**Relevant Flow(s):**	B.5.1.11

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify that a Subscription Version with a status of 'Active' exists for the TN that will be used in the Intra-Service Provider, Port-to-Original Subscription Version create request in this test case, for the current Service Provider, on the NPAC SMS. 2. The TN/Subscription Version that is going to be used during this Test Case should have an NPA-NXX-X that exists on the NPAC SMS, but the respective Number Pool Block has not yet been Activated. 3. TN Used:_____
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, SP Personnel submit an M-ACTION subscriptionVersionNewSP-Create request to the NPAC SMS for an Intra-Service Provider, Port-to-Original, single TN, Subscription Version for which there is a currently 'Active' Subscription Version for which they are the current Service Provider. This TN should have a respective NPA-NXX-X that has been created on the NPAC SMS but respective Number Pool Block has not yet been activated. The SOA sends an M-ACTION	NPAC	NPAC SMS receives the M-ACTION subscriptionVersionNewSP-Create request from the New/Current SP SOA and determines the request is invalid because system requirements have been violated: NPAC SMS shall reject a request for an Intra-Service Provider, Port-to-Original Subscription Version create after the creation of the NPA-NXX-X and prior to the existence of the respective Block.

		subscriptionVersionNewSP-Create to the NPAC SMS for the single TN and includes only the following attributes: • subscriptionTN • subscriptionNewCurrentSP • subscriptionOldSP • subscriptionNewSP-DueDate (seconds set to zeros) • subscriptionPortingToOriginal-SPSwitch		
2.	NPAC	1. NPAC SMS issues an M-ACTION Response subscriptionVersionNPAC to the New/Current SP SOA indicating it did not successfully validate the Intra-Service Provider, Port-to-Original, Subscription Version create request. 2. Further processing is ceased.	SP	New/Current SP SOA receives the M-ACTION Response.
3.	SP	Using their SOA, New/Current SP Personnel perform a local query for the Subscription Version they attempted to create in this test case.	SP	Verify the Subscription Version does not exist. Verify that an error response was received from the NPAC SMS.
4.	NPAC	NPAC Personnel perform a query for the Subscription Version that the SP personnel attempted to create in this test case.	NPAC	Verify that the Subscription Version does not exist.

E. Pass/Fail Analysis, NANC 230-2

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

A. TEST IDENTITY

Test Case Number:	**NANC 230-3**	**SUT Priority:**	**SOA**	Required
			LSMS	N/A
Objective:	SOA – Service Provider Personnel create an Intra-Service Provider, Porting to Original Subscription Version after NPA-NXX-X Effective Date and Block Activation – Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 230
NANC FRS Version Number:	3.2.0a	**Relevant Requirement(s):**	RR5-57
NANC IIS Version Number:	3.2.0a	**Relevant Flow(s):**	B.5.1.11

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. On behalf of the service provider under test, create and activate a Subscription Version from a Code Holder. The service provider under test is the 'New' service provider. 2. On behalf of the service provider under test, create an NPA-NXX-X whereby the Subscription Version created in step 1 above, is respective to the NPA-NXX-X to be created. 3. On behalf of the service provider under test, activate a respective Number Pool Block for the NPA-NXX-X that was created in step 2 above. Verify that the Number Pool Block and Pooled Subscription Versions exist. Verify that the Subscription Versions that was activated in step 1 above exists as an LSPP port with a status of 'Active' where the service provider under test is the current service provider for the port. 4. TN Used:_____
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, SP Personnel submit an M-ACTION subscriptionVersionNewSP-Create request to the NPAC SMS for an Intra-Service Provider, Port-to-Original, single TN, Subscription Version for which there is a currently 'Active' Subscription Version for which they are the current Service Provider. Specify the TN identified in the prerequisites above.	NPAC	NPAC SMS receives the M-ACTION subscriptionVersionNewSP-Create request from the New/Current SP SOA.

		2. The SOA sends an M-ACTION subscriptionVersionNewSP-Create to the NPAC SMS for the single TN and includes only the following attributes: • subscriptionTN • subscriptionNewCurrentSP • subscriptionOldSP • subscriptionNewSP-DueDate (seconds set to zeros) • subscriptionPortingToOriginal-SPSwitch		
2.	NPAC	NPAC SMS issues an M-CREATE Request subscriptionVersionNPAC to itself for the TN to create the Subscription Version, sets the subscriptionVersionStatus to 'Pending', and sets the subscriptionNewSPCreationTimeStamp, and the subscriptionModifedTimeStamp to the current date and time.	NPAC	NPAC SMS issues an M-CREATE Response to itself.
3.	NPAC	NPAC SMS issues an M-ACTION Response subscriptionVersionNPAC to the New/Current SP indicating it successfully received the Intra-Service Provider, Port-to-Original, Subscription Version create request.	SP	New/Current SP SOA receives the M-ACTION Response.
4.	NPAC	NPAC SMS issues an M-EVENT-REPORT to the New/Current SP SOA based on their Customer TN Range Notification Indicator: 1. If the setting is TRUE, NPAC SMS issues an M-EVENT-REPORT subscriptionVersionRangeObjectCreation specifying the following attributes: • start TN • end TN • start SVID • end SVID • those attributes bulleted below: 2. If the setting is FALSE, NPAC SMS issues an M-EVENT-REPORT objectCreation specifying the following attributes: • subscriptionVersionId • subscriptionTN The following attributes will also be sent in the ObjectCreation or subscriptionVersionRangeObjectCreation notification: • subscriptionOldSP	NPAC	New/Current SP SOA receives the M-EVENT-REPORT from the NPAC SMS.

		• subscriptionNewCurrentSP • subscriptionNewSP-DueDate • subscriptionNewSP-CreationTimeStamp • subscriptionVersionStatus • subscriptionTimerType (if supported) • subscriptionBusinessType (if supported)		
5.	SP	New/Current SP SOA issues an M-EVENT-REPORT Confirmation to the NPAC SMS indicating it successfully received the M-EVENT-REPORT from the NPAC SMS.	NPAC	NPAC SMS receives the M-EVENT-REPORT Confirmation from the New/Current SP SOA.
6.	SP	Using their SOA, New/Current SP Personnel perform a local query for the Subscription Version created in this test case.	SP	The Subscription Version exists with a status of 'Pending', an LNP type of 'LISP' and the Port-to-Original indicator set to TRUE.
7.	NPAC	NPAC Personnel perform a query for the Subscription Version created in this test case.	NPAC	The Subscription Version exists with a status of 'Pending', an LNP type of 'LISP', and the Port-to-Original indicator set to TRUE.

E. Pass/Fail Analysis, NANC 230-3

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

12.7 NANC 249 – Modification of Dates for a Disconnect Pending SV

NOTE: Service Provider's whose systems cannot create the 'failure' scenarios that follow pass those test cases be default. If their system does not 'stop' the invalid message before it goes across the interface, then their system must be able to successfully execute the test case and handle the failure response from the NPAC SMS.

A. TEST IDENTITY

Test Case Number:	**NANC 249-1**	**SUT Priority:**	**SOA**	Required
			LSMS	Required
Objective:	SOA – Service Provider Personnel submit a Subscription Version modify request for a 'Disconnect-Pending' Subscription Version, modifying the Effective Release Date and Customer Disconnect Date to the current date/time or a date/time in the past. - Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 249
NANC FRS Version Number:	3.2.0a	**Relevant Requirement(s):**	RR5-124, RR5-125, RR5-127, RR5-129, RR5-126, RR5-11
NANC IIS Version Number:	3.2.0a	**Relevant Flow(s):**	B.5.2.7, B.5.4.1, B.5.4.1.1

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify that a Subscription Version with a status of 'Disconnect-Pending' exists on the NPAC SMS for the Service Provider participating in this Test Case. The Subscription Version should have an Effective Release Date and a Customer Disconnect Date currently set to at least one day in the future. 2. TN Used _____
Prerequisite SP Setup:	Disconnect an 'Active' Subscription Version for which you are the Current Service Provider and specify an Effective Release Date and a Customer Disconnect Date that are at least one day in the future. The Effective Release and Customer Disconnect Dates do not have to be the same date/time.

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	1. Using the SOA, SP Personnel submit an M-ACTION Request subscriptionVersionModify to the NPAC SMS to modify the Effective Release Date and Customer Disconnect Date to either the current dates/time or some other date in the past, for a single TN Subscription Version that has a current status of 'Disconnect-Pending'. 2. The SOA sends an M-ACTION	NPAC	NPAC SMS receives the M-ACTION Request subscriptionVersionModify from the Current SP SOA.

		subscriptionVersionModify request to the NPAC SMS for the single TN and modifies the subscriptionCustomerDisconnectDate and the subscriptionEffectiveReleaseDate to the current or past date/times.		
2.	NPAC	The NPAC SMS validates the SOA request and issues an M-SET Request subscriptionVersionNPAC to itself, updating the modified attributes and setting the subscriptionModifiedTimeStamp to the current date/time.	NPAC	NPAC SMS receives the M-SET Request subscriptionVersionNPAC.
3.	NPAC	The NPAC SMS issues an M-ACTION Response subscriptionVersionModify to the Current SP SOA indicating the request was successfully processed by the NPAC SMS.	SP	Current SP SOA receives the M-ACTION Response from the NPAC SMS.
4.	NPAC	NPAC SMS issues an M-SET Request subscriptionVersionNPAC updating the subscriptionVersionStatus to 'Sending' and setting the subscriptionCustomerDisconnectDate and subscriptionBroadcastTimeStamp.	NPAC	NPAC SMS receives the M-SET subscriptionVersionNPAC and issues an M-SET Response to itself.
5.	NPAC	• If the donor Service Provider's TN Range Notification indicator is set to TRUE, NPAC SMS issues an M-EVENT-REPORT subscriptionVersionRangeDonorSP-CustomerDisconnectDate to the donor Service Provider. • If the donor Service Provider's TN Range Notification indicator is set to FALSE, NPAC SMS issues an M-EVENT-REPORT subscriptionVersionDonorSP-CustomerDisconnectDate to the donor Service Provider. The M-EVENT-REPORT indicates the TN is being disconnected with the customer disconnect date.	SP	The donor Service Provider receives the M-EVENT-REPORT from the NPAC SMS and issues an M-EVENT-REPORT Confirmation back.
6.	NPAC	NPAC SMS issues an M-DELETE Request subscriptionVersion to all LSMSs that are accepting downloads for the NPA-NXX for Subscription Version that was modified in Row 1 above.	LSMS	Each LSMS receives the M-DELETE request from the NPAC SMS.
7.	LSMS	Each LSMS issues an M-DELETE	NPAC	NPAC SMS receives an M-DELETE Response from each

		Response back to the NPAC SMS indicating they successfully processed the M-DELETE request.		LSMS accepting downloads for this NPA-NXX.
8.	NPAC	NPAC SMS issues an M-SET Request subscriptionVersionNPAC updating the subscriptionVersionStatus to 'Old' and setting the subscriptionModifiedTimeStamp and subscriptionDisconnectCompleteTimeStamp.	NPAC	NPAC SMS receives the M-SET subscriptionVersionNPAC and issues an M-SET Response to itself.
9.	NPAC	NPAC SMS issues an M-EVENT-REPORT subscriptionVersionStatusAttributeValueChange to the Service Provider SOA that issued the disconnect request, indicating the Subscription Version status is 'Old'.	SP	The SOA receives the M-EVENT-REPORT subscriptionVersionStatusAttributeValueChange from the NPAC SMS.
10.	SP	Using their SOA, New/Current SP Personnel perform a local query for the 'Disconnect-Pending' Subscription Version that was modified and then subsequently 'disconnected' from the NPAC network during this test case.	SP	The Subscription Version exists with a status of 'Old', or something equivalent to indicate that this Subscription Version is no longer active.
11.	NPAC	NPAC Personnel perform a query for the 'Disconnect-Pending' Subscription Version that was modified and then subsequently 'disconnected' from the NPAC network during this test case.	NPAC	The Subscription Version exists with a status of 'Old'.

E. Pass/Fail Analysis, NANC 249-1

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

A. TEST IDENTITY

Test Case Number:	**NANC 249-2**	**SUT Priority:**	**SOA**	Conditional
			LSMS	Conditional
Objective:	SOA – Service Provider Personnel submit a Subscription Version modify request for a range of 'Disconnect-Pending' Subscription Versions, modifying the Effective Release Date and Customer Disconnect Date to a different date/time in the future. The range of Subscription Versions had Effective Release Dates that were not the same prior to the modification. - Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 249
NANC FRS Version Number:	3.2.0a	**Relevant Requirement(s):**	RR5-127
NANC IIS Version Number:	3.2.0a	**Relevant Flow(s):**	B.5.2.7

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify that a range of at least 20 Subscription Version with a status of 'Disconnect-Pending' exist on the NPAC SMS for the Service Provider participating in this Test Case. These Subscription Versions should have an Effective Release Date and a Customer Disconnect Date currently set to at least one day in the future. Make sure that the set of Subscription Versions have a wide range of different Effective Release Dates and a Customer Disconnect Dates from one another. 2. TNs Used _____
Prerequisite SP Setup:	Disconnect a range of at least 20 'Active' Subscription Versions for which you are the Current Service Provider and specify a variety of different Effective Release Dates and a Customer Disconnect Dates that are at least one day in the future. The Effective Release and Customer Disconnect Dates should not have the same date/time – all should be deferred disconnects.

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	1. Using the SOA, SP Personnel submit an M-ACTION Request subscriptionVersionModify to the NPAC SMS to modify the Effective Release Date and Customer Disconnect Date to a date/time at least one day in the future, for a range of at least 20 TNs that have a current status of 'Disconnect-Pending'. 2. The SOA sends an M-ACTION subscriptionVersionModify request to the NPAC SMS for the range of at least 20 TNs and modifies the	NPAC	NPAC SMS receives the M-ACTION Request subscriptionVersionModify from the Current SP SOA.

		subscriptionCustomerDisconnectDate and the subscriptionEffectiveReleaseDate to a date/time at least one day in the future.		
2.	NPAC	The NPAC SMS validates the SOA request and issues an M-SET Request subscriptionVersionNPAC to itself, updating the modified attributes and setting the subscriptionModifiedTimeStamp to the current date/time.	NPAC	NPAC SMS receives the M-SET Request subscriptionVersionNPAC.
3.	NPAC	The NPAC SMS issues an M-ACTION Response subscriptionVersionModify to the Current SP SOA indicating the request was successfully processed by the NPAC SMS.	SP	Current SP SOA receives the M-ACTION Response from the NPAC SMS.
4.	SP	Using their SOA, New/Current SP Personnel perform a local query for the 'Disconnect-Pending' Subscription Versions that were modified during this test case.	SP	The Subscription Versions exists with a status of 'Disconnect-Pending' with the new Effective Release and Customer Disconnect Dates that were specified in Row 1 above.
5.		NPAC Personnel perform a query for the 'Disconnect-Pending' Subscription Versions that were modified during this test case.	NPAC	The Subscription Versions exists with a status of 'Disconnect-Pending' with the new Effective Release and Customer Disconnect Dates that were specified in Row 1 above.

E. Pass/Fail Analysis, NANC 249-2

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

A. TEST IDENTITY

Test Case Number:	**NANC 249-3**	**SUT Priority:**	**SOA**	Required
			LSMS	N/A
Objective:	SOA – Service Provider Personnel submit a Subscription Version modify request for a 'Disconnect-Pending' Subscription Version, without specifying the Customer Disconnect Date - Failure			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 249
NANC FRS Version Number:	3.2.0a	**Relevant Requirement(s):**	RR5-128, R5-39.1, R5-29.2
NANC IIS Version Number:	3.2.0a	**Relevant Flow(s):**	B.5.2.7

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify that a Subscription Version with a status of 'Disconnect-Pending' exists on the NPAC SMS for the Service Provider participating in this Test Case. The Subscription Version should have an Effective Release Date and a Customer Disconnect Date currently set to at least one day in the future. 2. TN Used _____.
Prerequisite SP Setup:	Disconnect an 'Active' Subscription Version for which you are the Current Service Provider and specify an Effective Release Date and a Customer Disconnect Date that are at least one day in the future. The Effective Release and Customer Disconnect Dates do not have to be the same date/time.

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	1. Using the SOA, SP Personnel submit an M-ACTION Request subscriptionVersionModify to the NPAC SMS to modify the Effective Release Date to either the current date/time or some other date in the past, for a single TN Subscription Version that has a current status of 'Disconnect-Pending'. 2. The SOA sends an M-ACTION subscriptionVersionModify request to the NPAC SMS for the single TN and modifies the subscriptionEffectiveReleaseDate to the current or past date/times. The message leaves the	NPAC	NPAC SMS receives the M-ACTION Request subscriptionVersionModify from the Current SP SOA and determines that the request violates system requirements. **The subscriptionCustomerDisconnectDate must be populated in the modify request message.**

		subscriptionCustomerDisconnectDate unpopulated.		
2.	NPAC	The NPAC SMS issues an M-ACTION Response subscriptionVersionModify to the Current SP SOA indicating the request was not successfully processed by the NPAC SMS and includes an appropriate error message, 'invalidAurgumentValue'.	SP	Current SP SOA receives the M-ACTION Response from the NPAC SMS.
3.	SP	Using their SOA, New/Current SP Personnel perform a local query for the 'Disconnect-Pending' Subscription Version that they attempted to modify during this test case.	SP	The Subscription Version exists with a status of 'Disconnect-Pending' with the original Effective Release and Customer Disconnect Dates that were specified in the prerequisites above.
4.		NPAC Personnel perform a query for the 'Disconnect-Pending' Subscription Version that they attempted to modify during this test case.	NPAC	The Subscription Version exists with a status of 'Disconnect-Pending' with the original Effective Release and Customer Disconnect Dates that were specified in the prerequisites above.

E. Pass/Fail Analysis, NANC 249-3

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

A. TEST IDENTITY

Test Case Number:	**NANC 249-4**	**SUT Priority:**	**SOA**	Required
			LSMS	N/A
Objective:	SOA – Service Provider Personnel submit a Subscription Version modify request for a 'Disconnect-Pending' Subscription Version, specifying an invalid format for the Effective Release Date and/or Customer Disconnect Date - Failure			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 249
NANC FRS Version Number:	3.2.0a	**Relevant Requirement(s):**	RR5-125
NANC IIS Version Number:	3.2.0a	**Relevant Flow(s):**	B.5.2.7

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify that a Subscription Version with a status of 'Disconnect-Pending' exists on the NPAC SMS for the Service Provider participating in this Test Case. The Subscription Version should have an Effective Release Date and a Customer Disconnect Date currently set to at least one day in the future. 2. TN Used _____.
Prerequisite SP Setup:	Disconnect an 'Active' Subscription Version for which you are the Current Service Provider and specify an Effective Release Date and a Customer Disconnect Date that are at least one day in the future. The Effective Release and Customer Disconnect Dates do not have to be the same date/time.

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	1. Using the SOA, SP Personnel submit an M-ACTION Request subscriptionVersionModify to the NPAC SMS to modify the Effective Release and Customer Disconnect Dates to either the current date/time or some other date in the past, for a single TN Subscription Version that has a current status of 'Disconnect-Pending'. 2. The SOA sends an M-ACTION subscriptionVersionModify request to the NPAC SMS for the single TN and modifies the subscriptionCustomerDisconnectDate and the subscriptionEffectiveReleaseDa	NPAC	NPAC SMS receives the M-ACTION Request subscriptionVersionModify from the Current SP SOA and determines that the request violates system requirements. **The subscriptionCustomerDisconnectDate and/or subscriptionEffectiveReleaseDate must follow the valid format defined in Table 3-6 Subscription Version Data Model, of the FRS..**

		te to the current or past date/times. The message includes both attributes but at least one of these date/time attributes is in an invalid format. The valid format is defined in Table 3-6 Subscription Version Data Model of the FRS. This should be a timestamp, month, day, year, hour, minute, and seconds.		
2.	NPAC	The NPAC SMS issues an M-ACTION Response subscriptionVersionModify to the Current SP SOA indicating the request was not successfully processed by the NPAC SMS and includes an appropriate error message, 'invalidAurgumentValue'.	SP	Current SP SOA receives the M-ACTION Response from the NPAC SMS.
3.	SP	Using their SOA, New/Current SP Personnel perform a local query for the 'Disconnect-Pending' Subscription Version that they attempted to modify during this test case.	SP	The Subscription Version exists with a status of 'Disconnect-Pending' with the original Effective Release and Customer Disconnect Dates that were specified in the prerequisites above.
4.		NPAC Personnel perform a query for the 'Disconnect-Pending' Subscription Version that they attempted to modify during this test case.	NPAC	The Subscription Version exists with a status of 'Disconnect-Pending' with the original Effective Release and Customer Disconnect Dates that were specified in the prerequisites above.

E. Pass/Fail Analysis, NANC 249-4

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

12.8 NANC 297 – Sending SV Problem During Recovery

This section of test cases has been incorporated into test case 187-1.

12.9 NANC 319 – NPAC Edit to Ensure NPA-NXX of LRN is in Same LATA as NPA-NXX of Ported TN

NOTE: Service Provider's whose systems cannot create the 'failure' scenarios that follow pass those test cases be default. If their system does not 'stop' the invalid message before it goes across the interface, then their system must be able to successfully execute the test case and handle the failure response from the NPAC SMS.

A. TEST IDENTITY

Test Case Number:	**NANC 319–1**	**SUT Priority:**	**SOA**	Required
			LSMS	N/A
Objective:	SOA – Service Provider Personnel attempt to create a Subscription Version specifying a TN and an LRN with different LATA Ids. - Failure			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 319
NANC FRS Version Number:	3.2.0	**Relevant Requirement(s):**	RR5-120
NANC IIS Version Number:	3.2.0	**Relevant Flow(s):**	B.5.1.1, B.5.1.2

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify the NPA-NXX exists and is open for porting for the TN that is going to be used during this test case. 2. Verify that the LRN exists for the Service Provider under test. Note the LATA ID for this LRN _____. 3. Identify which TN is to be used in this test case TN: _____ and respective LATA ID: _____.
Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	Using their SOA system, Service Provider Personnel submit a Subscription Version Create request for a single TN. The SOA system sends an M-ACTION Request subscriptionVersionNewSP-Create to the NPAC SMS to create the subscriptionVersionNPAC (Subscription Version) on the NPAC SMS.	NPAC	The NPAC SMS receives the M-ACTION Request from the Request from the Service Provider's SOA and determines the following: The LATA ID for the TN does not match the LATA ID for the LRN. **(This violates system requirements.)**

		The following attributes must be specified: • subscriptionTN or a valid subscriptionVersionTN-Range **(specify the TN identified in the prerequisites)** • subscriptionNewCurrentSP • subscriptionOldSP • subscriptionNewSP-DueDate (seconds set to zero) • subscriptionLNPType • subscriptionLRN **(specify the LRN identified in the prerequisites)** • subscriptionNewSPMediumTimerIndicator – if supported by the Service Provider SOA Specify a combination of valid and invalid DPC/SSN data for the following attributes. • 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		
2.	NPAC	The NPAC SMS issues an M-ACTION Response failure indicating an error with the request to the SOA.	SP	The Service Provider SOA receives the M-ACTION 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	Service Provider Personnel, perform a local query for the Subscription Version.	SP	Verify that the Subscription Version does not exist on the local database.

E. Pass/Fail Analysis, NANC 319-1

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

A. TEST IDENTITY

Test Case Number:	**NANC 319–2**	**SUT Priority:**	**SOA**	Required
			LSMS	N/A
Objective:	SOA – Service Provider Personnel attempt to modify a 'Pending', Subscription Version specifying an LRN with a different LATA Id from the NPA-NXX of the TN in the Subscription Version. - Failure			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 319
NANC FRS Version Number:	3.2.0	**Relevant Requirement(s):**	RR5-123
NANC IIS Version Number:	3.2.0	**Relevant Flow(s):**	B.5.2.3, B.5.2.4

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify that the NPA-NXX exists and is open for porting for the TN that is going to be used during this test case. TN_____ 2. Verify that a 'Pending' Subscription Version exists for the TN that is going to be used during this test case. Note the current LRN for the Subscription Version _____. 3. Identify another LRN that exists for the Service Provider under test which has a different LATA ID from the TN of the Subscription Version used 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.	SP	Using their SOA system, Service Provider Personnel submit a request to the NPAC SMS to modify a single TN, 'Pending' Subscription Version that already exists on the NPAC SMS. Specify the TN and the new LRN identified in the prerequisites above. 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. The Service Provider SOA submits	NPAC	The NPAC SMS receives the M-ACTION/M-SET Request from the Service Provider's SOA and determines the following: The LATA ID for the TN of the Subscription Version and the LATA ID for the modified LRN value do not match. **(This violates system requirements.)**

		an M-ACTION Request subscriptionVersionModify or an M-SET Request subscriptionVersionNPAC (depending on the system implementation) to the NPAC SMS lnpSubscription object to update the 'Pending' Subscription Version.		
2.	NPAC	The NPAC SMS issues an M-ACTION Response failure or M-SET Response failure (depending on the message received in Row 1) indicating an error with the request to the SOA.	SP	The Service Provider SOA receives the Response from the NPAC SMS.
3.	NPAC	NPAC Personnel perform a query for the Subscription Version.	NPAC	NPAC Personnel verify that the Subscription Version exists with a status of 'Pending' however, the attributes were not modified. The original LRN identified in the prerequisites above is still associated with the TN/Subscription Version used during this test case.
4.	SP	Service Provider Personnel, perform a local query for the Subscription Version.	SP	Verify that the Subscription Version exists on the local database with the original attribute values. The original LRN identified in the prerequisites above is still associated with the TN/Subscription Version used during this test case.

E. Pass/Fail Analysis, NANC 319-2

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

A. TEST IDENTITY

Test Case Number:	**NANC 319–3**	**SUT Priority:**	**SOA**	Required
			LSMS	N/A
Objective:	NPAC OP GUI – NPAC Personnel submit a mass update request for a range of 'Active', Subscription Versions where some of the Subscription Versions exist with valid LATA ID relationships and some of the Subscription Versions exist with invalid LATA ID relationships. Specify new DPC/SSN data. Subscription Versions with valid LATA ID relationships will be updated and Subscription Versions that exist without valid LATA ID relationships will not be updated. - Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 319
NANC FRS Version Number:	3.2.0	**Relevant Requirement(s):**	RR3-254
NANC IIS Version Number:	3.2.0	**Relevant Flow(s):**	B.8.3

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Activate a contiguous range of at least 100 SVs for the Service Provider under test where the LATA ID of the NPA-NXX for the range of SVs is THE SAME AS the LATA ID of the LRN specified in the subscription versions. SV Range A_____. • For example, LRN=303-555-0000 has a LATA ID of 656 and is owned by SP under test. • Activate SVs (303-100-1000 through 303-100-1100) with LRN (303-555-0000), NPA-NXX 303-100 has a LATA ID of 656 2. Activate another contiguous range of at least 100 SVs for the Service Provider under test where the LATA ID of the NPA-NXX for the range of SVs is DIFFERENT THAN the LATA ID of the LRN specified in the subscription versions (pre 3.2 valid data). SV Range B _____. • For example, LRN=303-888-0000 has a LATA ID of 658 and is owned by SP under test. • Activate SVs (303-100-2000 through 303-100-2100) with LRN (303-888-0000), NPA-NXX 303-100 has a LATA ID of 656
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 Mass Update request for a range of 'Active' Subscription Versions (specify SV Range A and SV Range B identified in the prerequisites above). Modify the at least one set of	NPAC	The NPAC SMS searches the Subscription Version database for Subscription Versions that match the input Mass Update criteria. The NPAC SMS determines that a subset of the TNs in the Subscription Version range have a LATA ID different from the LATA ID of the associated LRN attribute. The NPAC SMS makes an entry to the Mass Update Exception Report for these TNs that contain NPA-NXXs where the LATA ID does not

		DPC/SSN data for these Subscription Versions..		match the LATA ID of the associated LRN, and continues updating the remaining Subscription Versions that meet the Mass Update criteria.
2.	NPAC	NPAC SMS sends multiple M-SET(s) for each contiguous range of Subscription Versions to all LSMSs that are accepting downloads for the NPA-NXXs of the Subscription Versions to update the DPC/SSN value for those Subscription Versions whose LATA IDs of the NPA-NXXs matches the LATA ID of the associated LRN.	SP	All LSMSs that are accepting downloads for the NPA-NXXs of the Subscription Versions being updated, receive the M-SET request(s) from the NPAC SMS to modify the DPC/SSN data. The LSMSs issue an M-SET Response(s) indicating they successfully processed the NPAC SMS request(s). These M-SET Requests are for the Subscription Versions that were successfully updated based on the Mass Update criteria – and does not include those Subscription Versions that could not be updated based on invalid LATA ID relationships. The Subscription Versions that could not be updated are included on the Mass Update Exception report.
3.	NPAC	1. If the current Service Provider's TN Range Notification Indicator is set to TRUE, NPAC SMS issues an M-EVENT-REPORT subscriptionVersionRangeStatusAttributeValueChange for the range of Subscription Versions that were updated indicating the status is now 'Active'. 2. If the current Service Provider's TN Range Notification Indicator is set to 'FALSE', NPAC SMS issues a subscriptionVersionStatusAttributeValueChange for each Subscription Version that was updated, indicating the status is now 'Active'.	SP	The current Service Provider receives the M-EVENT-REPORT from the NPAC SMS and issues an M-EVENT-REPORT response indicating it successfully received the message.
4.	NPAC	NPAC Personnel generate a Mass Update Exception report.	NPAC	Verify that the subset of Subscription Versions within the Mass Update request who's LATA ID for the NPA-NXX of the TN that did not match the LATA ID for the associated LRN attribute are included on the report.
5.	SP	Service Provider Personnel perform a local query on their LSMS to verify the Mass Update was completed.	SP	On the LSMS verify: 1. The subset of Subscription Versions within the Mass Update request who's LATA ID for the NPA-NXX of the TN that did not match the LATA ID for the associated LRN attribute were not updated with the new DPC/SSN value(s). 2. The subset of Subscription Versions within the Mass Update request who's LATA ID for the NPA-NXX of the TNs did match the LATA ID for the associated LRN attribute were updated with the new DPC/SSN value.
6.	NPAC	NPAC Personnel perform a full audit for the subscription version range specified in the Mass Update request.	NPAC	Verify that there are no discrepancies found. 1. The subscription versions who's LATA ID for the NPA-NXX of the TNs did not match the LATA ID for the associated LRN attribute were not updated – they still exist in their previous state. 2. All other subscription versions specified in the Mass Update criteria were updated appropriately.

E. Pass/Fail Analysis, NANC 319-3

Pass	Fail	NPAC Personnel performed the test case as written.
Pass	Fail	Service Provider Personnel performed the test case as written.
Pass	Fail	NPAC Personnel were able to view the Mass Update Exception report that included the TNs that were not updated because the LATA ID of their NPA-NXX does not match the LATA ID for the associated LRN attribute.

A. TEST IDENTITY

Test Case Number:	**NANC 319–4**	**SUT Priority:**	**SOA**	Conditional
			LSMS	N/A
Objective:	SOA – Service Provider Personnel attempt to create a Number Pool Block specifying an LRN with a different LATA Id than the TNs in the Number Pool Block. - Failure			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 319
NANC FRS Version Number:	3.2.0	**Relevant Requirement(s):**	RR3-334
NANC IIS Version Number:	3.2.0	**Relevant Flow(s):**	B.4.4.1

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Identify the Number Pool Block that will be used during this test case (NPA-NXX-X _____. 2. Verify that the NPA-NXX exists and is open for porting for the Number Pool Block that is going to be used during this test case. 3. Verify that the NPA-NXX-X exists respective to the Number Pool Block that is going to be used during this test case. 4. Verify that there are no contaminated TNs or 'Pending-Like' Subscription Versions for the range of TNs in the NPA-NXX-X. 5. Identify an LRN that already exists on the NPAC SMS for the Service Provider under test which has a LATA ID different than the Number Pool Block identified above to be used 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.	SP	Using the SOA, Service Provider Personnel, submit a M-ACTION numberPoolBlock-Create Request to the NPAC SMS to create a Number Pool Block. The request must include the following attributes: numberPoolBlockNPA-NXX-X **(specify the NPA-NXX-X identified in the prerequisites)** numberPoolBlockSPID numberPoolBlockLRN **(specify the LRN identified in the**	NPAC	The NPAC SMS receives the M-ACTION numberPoolBlock-Create Request from the Service Provider's SOA and determines the following: The LATA ID for the NPA-NXX-X specified in the request and the LATA ID for the LRN specified in the request do not match. **(This violates system requirements.)**

		prerequisites)		
2.	NPAC	The NPAC SMS issues an M-ACTION Response failure indicating an error with the request to the SOA.	SP	The Service Provider SOA receives the M-ACTION Response.
3.	NPAC	NPAC Personnel perform a query for the Number Pool Block and respective 'Pooled' Subscription Versions Service Provider personnel attempted to schedule during this test case.	NPAC	NPAC Personnel verify that the Number Pool Block and respective 'Pooled' Subscription Versions do not exist on the NPAC SMS.
4.	SP	Service Provider Personnel, perform a local query for the Number Pool Block and the respective 'Pooled' Subscription Versions they attempted to schedule during this test case.	SP	Verify that the Number Pool Block and the respective 'Pooled' Subscription Versions do not exist on the local database.

E. Pass/Fail Analysis, NANC 319-4

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

A. TEST IDENTITY

Test Case Number:	**NANC 319–5**	**SUT Priority:**	**SOA**	Conditional
			LSMS	N/A
Objective:	SOA – Service Provider Personnel attempt to modify a Number Pool Block specifying an LRN with a different LATA ID than the TNs in the Number Pool Block. - Failure			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 319
NANC FRS Version Number:	3.2.0	**Relevant Requirement(s):**	RR3-335
NANC IIS Version Number:	3.2.0	**Relevant Flow(s):**	B.4.4.13

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Identify a Number Pool Block that already exists (with a status of 'Active' and an empty Failed SP List) on the NPAC SMS for the Service Provider under test to be used during this test case _____. 2. Identify an LRN that already exists on the NPAC SMS for the Service Provider under test that has a LATA ID different from the Number Pool Block that has been identified to be used 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.	SP	Using the SOA, Service Provider Personnel submit an M-SET Request numberPoolBlock to modify a Number Pool Block. Modify the numberPoolBlockLRN **(specify the LRN identified in the prerequisites)**	NPAC	The NPAC SMS receives the M-SET Request numberPoolBlock from the Service Provider's SOA and determines the following: The LATA ID of the Number Pool Block specified in the modify request and the LATA ID of the LRN to be modified to, do not match. **(This violates system requirements.)**
2.	NPAC	The NPAC SMS issues an M-ACTION Response failure indicating an error with the request to the SOA.	SP	The Service Provider SOA receives the M-ACTION Response.
3.	NPAC	NPAC Personnel perform a query for the Number Pool Block and respective 'Pooled' Subscription Versions Service Provider personnel attempted to modify during this test case.	NPAC	NPAC Personnel verify that the Number Pool Block and respective 'Pooled' Subscription Versions were not modified on the NPAC SMS. The original LRN is still associated with the Number Pool Block.
4.	SP	Service Provider Personnel, perform	SP	Verify that the Number Pool Block and the respective 'Pooled'

		a local query for the Number Pool Block and the respective 'Pooled' Subscription Versions they attempted to modify during this test case.		Subscription Versions were not modified on the local database. The original LRN is still associated with the Number Pool Block.

E. Pass/Fail Analysis, NANC 319-5

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

A. TEST IDENTITY

Test Case Number:	**NANC 319–6**	**SUT Priority:**	**SOA**	N/A
			LSMS	Required
Objective:	NPAC OP GUI – NPAC Personnel submit a mass update request including at least three complete Number Pool Blocks where two of the Number Pool Blocks exist with valid LATA ID relationships and one Number Pool Block exists with invalid LATA ID relationships. Specify new DPC/SSN data. Number Pool Blocks with valid LATA ID relationships will be updated and the Number Pool Block that exists with invalid LATA ID relationships will not be updated. - Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 319
NANC FRS Version Number:	3.2.0	**Relevant Requirement(s):**	RR3-254
NANC IIS Version Number:	3.2.0	**Relevant Flow(s):**	B.8.3

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Activate two NPBs for the Service Provider under test where the LATA ID of the NPA-NXX for the TNs within the block is the SAME AS the LATA ID of the LRN(s) specified in the NPBs. NPB A _____, NPB B _____. • For example, LRN=303-333-0000 has a LATA ID of 656 and is owned by SP under test. • Activate NPB A (303-100-3) with LRN (303-333-0000), and Activate NPB B (303-100-7) with LRN (303-333-0000). NPA-NXX 303-100 has a LATA ID of 656. 2. Activate another NPB for the Service Provider under test where the LATA ID of the NPA-NXX for the TNs within the block is DIFFERENT THAN the LATA ID of the LRN specified in the NPB (pre 3.2 valid data). NPB C_____. • For example, LRN=303-555-0000 has a LATA ID of 658 and is owned by SP under test. • Activate NPB C (303-100-4) with LRN (303-888-0000), NPA-NXX 303-100 has a LATA ID of 656
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 Mass Update request for a range TNs that includes three Number Pool Blocks (identified in the prerequisites above). Modify at least one set of DPC/SSN data for these Number Pool Blocks	NPAC	The NPAC SMS searches the Subscription Version database for Subscription Versions that match the input Mass Update criteria. The NPAC SMS determines that the request completely includes three Number Pool Blocks and the range of TNs for one of the Number Pool Blocks have a LATA ID different from the LATA ID of the associated LRN attribute. The NPAC SMS makes an entry to the Mass Update Exception Report for these TNs/Number Pool Block where the LATA ID for the associated

				LRN does not match the LATA ID of the respective NPA-NXX, and continues updating the remaining Subscription Versions that meet the Mass Update criteria.
2.	NPAC	NPAC SMS sends to all LSMSs that are accepting downloads for the NPA-NXX(s): • to those EDR LSMSs, NPAC SMS issues M-SET Request(s) numberPoolBlock to update the DPC/SSN attribute(s) for the two Number Pool Blocks who's LATA ID for the respective NPA-NXX matches the LATA ID for the associated LRN attribute value – to update the DPC/SSN value(s). • to those EDR LSMSs, NPAC SMS issues M-SET Request(s) subscriptionVersion for each contiguous range of non-pooled TN's within the Mass Update TN range who's LATA ID for the respective NPA-NXX match the associated LRN attribute value – to update the DPC/SSN value(s). • to those non-EDR LSMSs, NPAC SMS issues M-SET Request(s) subscriptionVersion for each contiguous range of 'Pooled' and 'non-Pooled' SVs who's LATA ID or the respective NPA-NXX matches the LATA ID of the associated LRN attribute – to update the DPC/SSN value(s).	SP	All LSMSs that are accepting downloads for the NPA-NXX of the Number Pool Block objects and Subscription Versions being updated, receive the M-SET Request(s) from the NPAC SMS to modify the DPC/SSN value(s). The LSMSs issue an M-SET Response indicating they successfully processed the NPAC SMS request. These M-SET Requests are for the Number Pool Blocks and Subscription Versions that were successfully updated based on the Mass Update criteria – and does not include those Number Pool Blocks or Subscription Versions that could not be updated based because the LATA ID of the respective NPA-NXX did not match the LATA ID of the associated LRN.. The Number Pool Blocks and Subscription Versions that could not be updated are included on the Mass update Exception report.
3.	NPAC	1. If the current Service Provider's TN Range Notification Indicator is set to TRUE, NPAC SMS issues an M-EVENT-REPORT subscriptionVersionRangeStatusAttributeValueChange for the range of Subscription Versions not of LNP Type = 'POOL' out of the range of Subscription Versions that were updated indicating the status is now 'Active'. 2. If the current Service Provider's TN Range Notification Indicator is set to 'FALSE', NPAC SMS issues a subscriptionVersionStatusAttributeValueChange for each Subscription Version not of	SP	The current/Block Holder Service Provider receives the M-EVENT-REPORT(s) from the NPAC SMS and issues an M-EVENT-REPORT response indicating it successfully received the message.

		LNP Type = 'POOL' out of the range of Subscription Versions that were updated, indicating the status is now 'Active'. 3 If the numberPoolBlockSOA-Origination indicator is set to 'TRUE' for the Number Pool Block(s) updated, NPAC SMS issues an M-EVENT-REPORT numberPoolBlockStatusAttributeValueChange to the Block Holder SOA for the Number Pool Block objects that were updated indicating the status is 'Active'.		
4.	NPAC	NPAC Personnel generate a Mass Update Exception report.	NPAC	Verify that the subset of Number Pool Blocks/Subscription Versions within the Mass Update request who's LATA ID for the respective NPA-NXX that did not match the LATA ID for the associated LRN attribute are included on the report.
5.	SP	Service Provider Personnel perform a local query on their LSMS to verify the Mass Update was completed.	SP	On the LSMS verify: 1. The subset Subscription Versions (both Pooled and non-Pooled) within the Mass Update request who's LATA ID for the respective NPA-NXX that did not match the LATA ID for the associated LRN attribute were not updated with the new DPC/SSN value(s). 2. The subset of Subscription Versions (both Pooled and non-Pooled) within the Mass Update request who's LATA ID for the respective NPA-NXX did match the LATA ID for the associated LRN attribute were updated with the new DPC/SSN value(s). 3. EDR LSMSs only, the Number Pool Blocks within the Mass Update request who's LATA ID for the respective NPA-NXX that did not match the LATA ID for the associated LRN attribute was not updated with the new DPC/SSN value(s). 4. EDR LSMSs only, the Number Pool Blocks within the Mass Update request who's LATA ID for the respective NPA-NXX that did match the LATA ID for the associated LRN attribute was updated with the new DPC/SSN value(s).

E. Pass/Fail Analysis, NANC 319-6

Pass	Fail	NPAC Personnel performed the test case as written.
Pass	Fail	Service Provider Personnel performed the test case as written.
Pass	Fail	NPAC Personnel were able to view the Mass Update Exception report that included the TNs/Number Pool Blocks that were not updated because the LATA ID of their respective NPA-NXX does not match the LATA ID for the associated LRN attribute.

12.10 NANC 322 – Clean Up of Failed SP List Based on Service Provider BDD Response File

A. TEST IDENTITY

Test Case Number:	**NANC 322-1**	**SUT Priority:**	**SOA**	N/A
			LSMS	Conditional
Objective:	LSMS – Service Provider Personnel create a Bulk Data Download Response File for Subscription Version data. NPAC Personnel process the Bulk Data Download Response File. The Service Provider was previously on the Failed SP List for at least some of the Subscription Versions in the respective file. Verification steps are performed to ensure the Service Provider's LSMS is now in synch with the NPAC SMS. - Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 322
NANC FRS Version Number:	3.2.0	**Relevant Requirement(s):**	RR3-330, RR3-329, RR3-332, RR3-333, RR3-325, RR3-326
NANC IIS Version Number:	3.2.0	**Relevant Flow(s):**	N/A

C. PREREQUISITE

Prerequisite Test Cases:	NANC 169-1

Prerequisite NPAC Setup:	While the LSMS is 'dis-associated' from the NPAC SMS, NPAC personnel perform the following functions: a) Modify a (unique) range of 500, 'Active' Subscription Versions where the Service Provider under test is the Current Service Provider. . Use simulators that are not associated with the NPAC and are receiving downloads for this NPA-NXX. Verify these Subscription Versions exist with a status of 'Active' and a Failed SP List. (SV group 2a_____) b) Create a filter for the NPA-NXX for which you created 500, 'Pending' Subscription Versions in 1a) above. • Activate these 500, 'Pending' Subscription Versions. Use simulators that are associated with the NPAC and are receiving downloads for this NPA-NXX. Verify that the status for all 500 is 'Active' on the NPAC SMS. (SV group 2b_____) • Disconnect 250 of these now, 'Active' Subscription Versions specifying Effective Release and Customer Disconnect dates in the future. Use simulators that are associated with the NPAC and are receiving downloads for this NPA-NXX. Verify that the status of these 250 Subscription Versions is 'Disconnect-Pending'. (SV group 2b[1]_____) • Remove the filter for this NPA-NXX for the Service Provider under test so that this range of Subscription Versions will be included in the Bulk Data Download File. c) Create and Activate 100 Intra-Service Provider Subscription Versions using an NPA-NXX that is open for porting and for which the Service Provider under test is accepting downloads for this NPA-NXX. This Service Provider is neither the Old or New Service Provider for these Subscription Versions. Use simulators that are associated with the NPAC and are receiving downloads for this NPA-NXX. Verify that the Subscription Versions have a status of 'Partial-Fail'. (SV group 2c _____) d) Activate 50 Subscription Versions with a status of 'Pending'. The Service Provider under test is the New Service Provider for these Subscription Versions. Use simulators that are associated with the NPAC and are receiving downloads for this NPA-NXX. Verify that these Subscription Versions have a status of 'Partial-Fail'. (SV group 2d_____) . e) Create and concur to a range of 100, 'Pending' Subscription Versions where the Service Provider under test is the New Service Provider. (SV group e_____) f) Put simulated SPID LSMS in recovery. Use at least one simulator that is associated with the NPAC and is accepting downloads for this NPA-NXX. Verify that the Service Provider under test is accepting downloads for this NPA-NXX. Activate 50 'pending' SVs in group f above. Verify that these subscription versions have a status of 'sending'. (SV group f_____) During the test case retry timers will exhaust, and then the status of the SVs should be 'Partial-Fail'.
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 request a Bulk Data Download for Subscription Data, specifying *Active/Disconnect Pending/Partial Failure Subscription Versions Only* and specifying the TN range identified	NPAC	The NPAC SMS performs the request, generates the appropriate Bulk Data Download File and automatically "FTP's" the file to the Service Provider's directory on the NPAC SMS.

		in the prerequisites above, for the Service Provider under test.		
2.	SP	Service Provider Personnel receive the Bulk Data Download File and load the file into their LSMS.	SP	The LSMS successfully processes the Bulk Data Download file and reflects the updates described in the prerequisites above. The systems are still 'dis-associated' from the NPAC SMS.
3.	SP	Service Provider Personnel, using their LSMS, perform a local query for the Subscription Data to verify that the Subscription Version data was loaded. • SV group a • SV group b • SV group b[1] • SV group c • SV group d • SV group f	SP	Using the LSMS system, verify: • SV group a exists on the LSMS. Verify that all of them reflect the 'modified' SV values from the prerequisites above. • SV group b exists on the LSMS. • SV group b[1] exists on the LSMS. • SV group c exists on the LSMS. • SV group d exists on the LSMS. • SV group f exists on the LSMS.
4.	SP	Service Provider personnel/system generate a Bulk Data Download Response File for the original Bulk Data Download file and places it in the Service Provider's directory on the NPAC SMS.	NPAC	NPAC SMS processes the Bulk Data Download Response File for the original file, and updates the Subscription Versions appropriately.
5.	NPAC	NPAC Personnel query for the Subscription Version data included in the Bulk Data Download File: • SV group a • SV group b • SV group b[1] • SV group c • SV group d • SV group f	NPAC	Verify the following: • SV group a exists with a status of 'Active' and an empty Failed SP List. • SV group b exists with a status of 'Active' and an empty Failed SP List. • SV group b[1] exists with a status of 'Disconnect-Pending' and an empty Failed SP List. • SV group c exists with a status of 'Active' and an empty Failed SP List. • SV group d exists with a status of 'Active' and an empty Failed SP List. • SV group f exists with a status of 'Sending'.
6.	SP	After all NPAC 'retry timers' for the Subscription Versions specified in the prerequisites above have expired, Service Provider personnel perform appropriate steps to 'associate' with the NPAC SMS such that they will not recover additional information.	SP	The LSMS successfully re-associates with the NPAC SMS without recovering additional information
7.	NPAC	NPAC Personnel bring the simulated SPID LSMS that was in recovery in Prerequisite step f above, out of recovery.	NPAC	Verify that the simulated SPID that was in recovery during step g of the prerequisites is now out of recovery. Verify that the 50 subscription versions that were activated while this SPID was in recovery now have a status of 'Partial Fail'.
8.	NPAC	NPAC Personnel perform multiple Full audits for each NPA-NXX included in the range of TNs specified in the prerequisites above for the Service Provider's LSMS to verify that all the appropriate updates were processed from the Bulk Data Download File by the	NPAC	Using the Audit Results Log, verify that there were no updates made. If any updates were made as a result of running this audit, this test case fails. Verify that: • SV group a exists on the LSMS. Verify that all of them reflect the 'modified' SV values from the prerequisites above. • SV group b exists on the LSMS.

		LSMS.		• SV group b[1] exists on the LSMS. • SV group c exists on the LSMS. • SV group d exists on the LSMS. • SV group f exists on the LSMS.

E. Pass/Fail Analysis, NANC 322-1

Pass	Fail	NPAC Personnel performed the test case as written.
Pass	Fail	Service Provider Personnel performed the test case as written.
Pass	Fail	Service Provider Personnel were able to successfully process the Bulk Data Download file updates with their local databases in a timely fashion.
Pass	Fail	Bulk Data Download Response File was processed in a timely fashion.

A. TEST IDENTITY

Test Case Number:	**NANC 322-2**	**SUT Priority:**	**SOA**	N/A
			EDR LSMS	Conditional
			Non-EDR LSMS	N/A
Objective:	LSMS – Service Provider Personnel create a Bulk Data Download Response File for Number Pool Block data. NPAC Personnel process the Bulk Data Download Response File. The Service Provider was previously on the Failed SP List for at least some of the Number Pool Blocks in the respective file. Verification steps are performed to ensure the Service Provider's LSMS is now in synch with the NPAC SMS. - Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 322
NANC FRS Version Number:	3.2.0	**Relevant Requirement(s):**	RR3-330, RR3-331, RR3-332, RR3-333, RR3-325, RR3-327
NANC IIS Version Number:	3.2.0	**Relevant Flow(s):**	N/A

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	While the LSMS is 'dis-associated' from the NPAC SMS, NPAC personnel perform the following functions: a) Modify an existing Number Pool Block for which the Service Provider under test is accepting downloads. Use simulators that are associated with the NPAC and are receiving downloads for this NPA-NXX. Verify that the Number Pool Block and respective Subscription Versions have a status of 'Partial-Fail' and the Service Provider under test is on the Failed SP List (SV group a_____), (NPB group a _____). b) Delete an existing NPA-NXX-X with a respective Number Pool Block for which the Service Provider under test is accepting downloads, and none of the respective 'Pooled' Subscription Versions have been ported away. Use simulators that are associated with the NPAC and are receiving downloads for this NPA-NXX. (SV group 2b_____), (NPB group 2b_____). c) Activate a Number Pool Block (associated with another NPA-NXX-X that has reached its Effective date) for an NPA-NXX for which the Service Provider under test is NOT accepting downloads - it is another Service Provider's Number Pool Block. Use simulators that are associated with the NPAC and are receiving downloads for this NPA-NXX. Verify that the Number Pool Block and respective Subscription Versions have a status of 'Active'. (SV group c_____) (NPB c_____) d) Modify the Number Pool Block that was just activated in step 'c' above. Make sure that the Service Provider under test is now accepting downloads for this NPA-NXX. Use simulators that are associated with the NPAC and are receiving downloads for this NPA-NXX. Verify that the Number Pool Block and respective Subscription Versions have been updated and have a status of 'Active' with a Failed SP List. (SV group c and NPB c).

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 request a Bulk Data Download for Number Pool Block Data, specifying *Latest View of Activity* a valid Time Range and specifying the range identified in the prerequisites above, for the Service Provider participating in the test case.	NPAC	The NPAC SMS performs the request, generates the appropriate Bulk Data Download File(s) and automatically "FTP's" the file(s) to the Service Provider's directory on the NPAC SMS.
2.	SP	Service Provider Personnel receive the Bulk Data Download File(s) and load the file(s) into their LSMS systems.	SP	The LSMS successfully processes the Bulk Data Download file(s) and reflects the updates described in the prerequisites above. The system is still 'dis-associated' from the NPAC SMS.
3.	SP	Service Provider Personnel, using their LSMS, perform a local query for the Pooled Subscription and/or Number Pool Block Data to verify that the data was loaded. • Pooled SV group a • Pooled SV group b • Pooled SV group c • NPB group a • NPB group b • NPB group c	SP	Using the LSMS system, verify: • Pooled SV group a exists on the LSMS with the modified attributes specified in step a of the prerequisites above. • Pooled SV group b does not exist on the LSMS. • Pooled SV group c exists on the LSMS with the modified attributes specified in step d of the prerequisites above. • NPB group a exists on the LSMS with the modified attributes specified in step a of the prerequisites above. • NPB group b does not exist on the LSMS. • NPB group c exists on the LSMS with the modified attributes specified in step d of the prerequisites above.
4.	SP	Service Provider personnel/system generate a Bulk Data Download Response File for the original Bulk Data Download file(s) and places it in the Service Provider's directory on the NPAC SMS.	NPAC	NPAC SMS processes the Bulk Data Download Response File(s) for the original file, and updates the Pooled Subscription Versions/Number Pool Blocks appropriately.
5.	NPAC	NPAC Personnel query for the Pooled Subscription Version and Number Pool Block data included in the Bulk Data Download File: • Pooled SV group a • Pooled SV group b • Pooled SV group c • NPB group a • NPB group b • NPB group c	NPAC	Verify the following: • Pooled SV group a exists with a status of 'Active' and an empty Failed SP List. • Pooled SV group b exists with a status of 'Old' and an empty Failed SP List. • Pooled SV group c exists with a status of 'Active' and an empty Failed SP List. • NPB group a exists with a status of 'Active' and an empty Failed SP List. • NPB group b exists with a status of 'Old' and an empty Failed SP List. • NPB group c exists with a status of 'Active' and an empty Failed SP List.
6.	SP	After all NPAC 'retry timers' for the Subscription Versions and Number	SP	The LSMS successfully re-associates with the NPAC SMS without recovering additional information.

		Pool Blocks specified in the prerequisites above have expired, Service Provider personnel perform appropriate steps to 'associated' with the NPAC SMS such that they will not recover additional information.		
7.	NPAC	NPAC Personnel perform multiple Full audits for each NPA-NXX included in the range of TNs specified in the prerequisites above for the Service Provider's LSMS to verify that all the appropriate updates were processed from the Bulk Data Download File by the LSMS.	NPAC	Using the Audit Results Log, verify that there were no updates made. If any updates were made as a result of running this audit, this test case fails. Verify that: • Pooled SV group a exists on the LSMS with the modified attributes specified in step a of the prerequisites above. • Pooled SV group b does not exist on the LSMS. • Pooled SV group c exists on the LSMS with the modified attributes specified in step d of the prerequisites above. • NPB group a exists on the LSMS with the modified attributes specified in step a of the prerequisites above. • NPB group b does not exist on the LSMS. • NPB group c exists on the LSMS with the modified attributes specified in step d of the prerequisites above.

E. Pass/Fail Analysis, NANC 322-2

Pass	Fail	NPAC Personnel performed the test case as written.
Pass	Fail	Service Provider Personnel performed the test case as written.
Pass	Fail	Service Provider Personnel were able to successfully process the Bulk Data Download file updates with their local databases in a timely fashion.
Pass	Fail	Bulk Data Download Response File was processed in a timely fashion.

12.11 NANC 323 – Partial Migration of SPID via Mass Update Test Cases

This section of test cases shall be executed only during the group test phase due to the impact to the entire test environment.

12.12 NANC 354 – Delta Download File Creation by Time Range for Network Data

NOTE: SOA Network Data Management, LSMS Network Data Management, NPAC Customer SOA NPA-NXX-X Indicator and NPAC Customer LSMS NPA-NXX-X Indicator (s) are all set to production values for the Service Provider under test.
Network Data filters need not be set to execute NANC 354 test cases.

A. TEST IDENTITY

Test Case Number:	**NANC 354-1**	**SUT Priority:**	**SOA**	Required
			LSMS	Required
Objective:	NPAC OP GUI – NPAC Personnel initiate a Bulk Data Download of Network Data – Specifying the *Latest View of Network Data Activity* and a valid time range. Verification steps are preformed to ensure the BDD file was processed successfully by the Service Provider system. - Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 354
NANC FRS Version Number:	3.2.0	**Relevant Requirement(s):**	RR3-220, RR3-301, RR3-302, RR3-304, RR3-311
NANC IIS Version Number:	3.2.0	**Relevant Flow(s):**	N/A

C. PREREQUISITE

Prerequisite Test Cases:	

Prerequisite NPAC Setup:	1. While the SOA and LSMS are 'associated' with the NPAC SMS, NPAC personnel perform the following functions: a) Create an NPA-NXX that is not yet open for porting (Effective date is in the future) on behalf of the Service Provider under test(NPA-NXX 1a_____). b) Create an NPA-NXX-X respective to NPA-NXX 1a on behalf of the Service Provider under test (NPA-NXX-X 1a_____). c) Create an NPA-NXX with an Effective date equal to today, on behalf of the Service Provider under test (so that it is now open for porting) (NPA-NXX 1c_____). d) Immediately after initiating requests 1a), 1b) and 1c) above, dis-associate the Service Provider's SOA and LSMS systems. 2. While the SOA and LSMS are 'dis-associated' with the NPAC SMS, NPAC personnel perform the following functions: a) Create an NPA-NXX that is not yet open for porting (Effective date is in the future) on behalf of the Service Provider under test NPA-NXX 2a _____. b) Create an NPA-NXX-X respective to NPA-NXX 2a on behalf of the Service Provider under test (NPA-NXX-X 2a _____). c) Modify NPA-NXX-X respective to 2a on behalf of the Service Provider under test, note the modified attributes. d) Modify existing NPA-NXX-X 1a above, note the modified attributes. e) Create an NPA-NXX that is not yet open for porting (Effective date is in the future) on behalf of another Service Provider under test NPA-NXX 2e _____. f) Delete the NPA-NXX (NPA-NXX 1c above) that is 'owned' by the Service Provider under test and is currently open for porting and for which respective Subscription Versions, Number Pool Blocks and NPA-NXX-X DO NOT exist, NPA-NXX 1c _____. g) Delete NPA-NXX-X 1a above.
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 request a Bulk Data Download for Network Data, specifying *Latest View of Network Data Activity* and a valid time range for the Service Provider under test.	NPAC	The NPAC SMS performs the request, generates the appropriate Bulk Data Download File(s) and automatically "FTP's" the file(s) to the Service Provider's directory on the NPAC SMS.
2.	SP	Service Provider Personnel receive the Bulk Data Download File(s) and load the file(s) into their SOA and LSMS.	SP	The SOA and LSMS successfully process the Bulk Data Download file(s) and reflect the updates described in the prerequisites above. The systems are still 'dis-associated' from the NPAC SMS.
3.	SP	Service Provider Personnel, using their SOA and LSMS, perform a local query for the Network Data to verify that the NPA-NXX and NPA-NXX-X data was loaded.	SP	Verify the following on the respective systems. On the SOA verify: • If the Service Provider's SOA Network Data Management Indicator is set to TRUE, o NPA-NXX 1a exists on the SOA (wasn't in the BDD file). o NPA-NXX 1c does not exist on the SOA. o NPA-NXX 2a exists on the SOA. o NPA-NXX 2e exists on the SOA.

				• If the Service Provider's SOA NPA-NXX-X Indicator is set to TRUE, o NPA-NXX-X 1a does not exist on the SOA (see step 2g above). o NPA-NXX-X 2a with the modified attributes (see step 2c above) exists on the SOA On the LSMS verify • If the Service Provider's LSMS Network Data Management Indicator is set to TRUE, o NPA-NXX 1a exists on the LSMS (wasn't in the BDD file). o NPA-NXX 1c DOES NOT exist on the LSMS. o NPA-NXX 2a exists on the LSMS. o NPA-NXX 2e exists on the LSMS. • If the Service Provider's NPA-NXX-X Indicator is set to TRUE, o NPA-NXX-X 1a does not exist on the LSMS. (see step 2g above). o NPA-NXX-X 2a with the modified attributes (see step 2c above) exists on the LSMS.
4.	SP	Service Provider personnel perform appropriate steps to 'associate' with the NPAC SMS.	SP	The SOA and LSMS successfully re-associate with the NPAC SMS.
5.	SP	Service Provider Personnel, using their SOA and LSMS, perform an NPAC query for the Network Data in the prerequisites: On the SOA and LSMS query: • If the Service Provider's SOA/LSMS Network Data Management Indicator is set to TRUE, o NPA-NXX 1a . o NPA-NXX 1c o NPA-NXX 2a o NPA-NXX 2e • If the Service Provider's SOA/LSMS NPA-NXX-X Indicator is set to TRUE, o NPA-NXX-X 1a o NPA-NXX-X 2a	SP	Verify the following on the respective systems. On the SOA/LSMS verify: • If the Service Provider's SOA/LSMS Network Data Management Indicator is set to TRUE, o NPA-NXX 1a exists. o NPA-NXX 1c does not exist. o NPA-NXX 2a exists. o NPA-NXX 2e exists. • If the Service Provider's SOA NPA-NXX-X Indicator is set to TRUE, o NPA-NXX-X 1a does not exist. o NPA-NXX-X 2a exists with the new, modified attributes (see step 2c above).

E. Pass/Fail Analysis, NANC 354-1

Pass	Fail	NPAC Personnel performed the test case as written.
Pass	Fail	Service Provider Personnel performed the test case as written.
Pass	Fail	Service Provider Personnel were able to successfully process the Bulk Data Download file updates with their local databases in a timely fashion.

A. TEST IDENTITY

Test Case Number:	**NANC 354-2**	**SUT Priority:**	**SOA**	Required
			LSMS	Required
Objective:	NPAC OP GUI – NPAC Personnel initiate a Bulk Data Download of Network Data – Specifying the *All Network Data*. Verification steps are preformed to ensure the BDD file was processed successfully by the Service Provider system. - Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 354
NANC FRS Version Number:	3.2.0	**Relevant Requirement(s):**	RR3-303, RR3-307, RR3-308, RR3-309, RR3-310, RR3-311
NANC IIS Version Number:	3.2.0	**Relevant Flow(s):**	N/A

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. While the SOA and LSMS are 'associated' with the NPAC SMS, NPAC personnel perform the following functions: a) Create an LRN that does not yet exist on the NPAC SMS on behalf of the Service Provider under test(LRN 1a_____). b) Create an NPA-NXX with an Effective date equal to today, on behalf of the Service Provider under test (so that it is now open for porting) (NPA-NXX 1b_____). c) Immediately after initiating requests 1a) and 1b) above, dis-associate the Service Provider's SOA and LSMS systems. 2. While the SOA and LSMS are 'dis-associated' with the NPAC SMS, NPAC personnel perform the following functions: a) Modify LRN 1a (above), note the modified attributes. b) Create an NPA-NXX-X respective to NPA-NXX 1b on behalf of the Service Provider under test (NPA-NXX-X 1b _____). c) Modify NPA-NXX-X respective to 1b on behalf of the Service Provider under test, note the modified attributes. d) Modify LRN 1a (above) again, note the modified attributes. e) Create an NPA-NXX that is not yet open for porting (Effective date is in the future) on behalf of another Service Provider under test NPA-NXX 2e _____. f) Delete NPA-NXX 2e that was just created above. g) Create a unique NPA-NXX that is not yet open for porting (Effective date is in the future) on behalf of another Service Provider, NPA-NXX 2g _____.
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 request a Bulk Data Download for Network Data, specifying *All Network Data* for the Service Provider under test.	NPAC	The NPAC SMS performs the request, generates the appropriate Bulk Data Download File(s) and automatically "FTP's" the file(s) to the Service Provider's directory on the NPAC SMS.
2.	SP	Service Provider Personnel receive the Bulk Data Download File(s) and load the file(s) into their SOA and LSMS.	SP	The SOA and LSMS successfully process the Bulk Data Download file(s) and reflect the updates described in the prerequisites above. The systems are still 'dis-associated' from the NPAC SMS.
3.	SP	Service Provider Personnel, using their SOA and LSMS, perform a local query for the Network Data to verify that the NPA-NXX and NPA-NXX-X data was loaded.	SP	Verify the following on the respective systems. On the SOA verify: • If the Service Provider's SOA Network Data Management Indicator is set to TRUE, o LRN 1a exists on the SOA with the modified attributes from perquisite step 2d above. o NPA-NXX 1b exists on the SOA, this was not part of the BDD. o NPA-NXX 2e does not exist on the SOA. o NPA-NXX 2g exists on the SOA. • If the Service Provider's SOA NPA-NXX-X Indicator is set to TRUE, o NPA-NXX-X 1b exists on the SOA with the new, modified attributes (see step 2c above). On the LSMS verify • If the Service Provider's LSMS Network Data Management Indicator is set to TRUE, o LRN 1a exists on the LSMS with the modified attributes from prerequisite step 2d above. o NPA-NXX 1bexists on the LSMS, this was not part of the BDD. o NPA-NXX 2e does not exist on the LSMS. o NPA-NXX 2g exists on the LSMS. • If the Service Provider's LSMS NPA-NXX-X Indicator is set to TRUE, o NPA-NXX-X 1b exists on the LSMS with the new, modified attributes (see step 2c above).
4.	SP	Service Provider personnel perform appropriate steps to 'associated' with the NPAC SMS.	SP	The SOA and LSMS successfully re-associate with the NPAC SMS.
5.	SP	Service Provider Personnel, using their SOA and LSMS, perform an NPAC query for the Network Data in the prerequisites: On the SOA and LSMS query: • If the Service Provider's SOA/LSMS Network Data Management Indicator is set to TRUE, o LRN 1a . o NPA-NXX 1b. o NPA-NXX 2e. o NPA-NXX 2g. • If the Service Provider's SOA/LSMS NPA-NXX-X	SP	Verify the following on the respective systems. On the SOA/LSMS verify: • If the Service Provider's SOA/LSMS Network Data Management Indicator is set to TRUE, o LRN 1a exists with the modified attributes from prerequisite step 2d above. o NPA-NXX 1b exists. o NPA-NXX 2e does not exist. o NPA-NXX 2g exists. • If the Service Provider's SOA/LSMS NPA-NXX-X Indicator is set to TRUE, o NPA-NXX-X 1b exists with the new, modified attributes, see step 2c above.

		Indicator is set to TRUE, o NPA-NXX-X 1b.		

E. Pass/Fail Analysis, NANC 354-2

Pass	Fail	NPAC Personnel performed the test case as written.
Pass	Fail	Service Provider Personnel performed the test case as written.
Pass	Fail	Service Provider Personnel were able to successfully process the Bulk Data Download file updates with their local databases in a timely fashion.

Note: The Bulk Data Download file may contain additional network data. Testers can verify appropriate behavior for any additional data that may be in the file as is stated in the Test Steps above.

End of Chapter