NPAC SMS Release 3.3.4
Turn Up Test Plan

Release 3.3.4a

March 29, 2010

Publication History

Version	Release Date	Description
3.3.4a	**March 29, 2010**	**Initial draft of NPAC Release 3.3.4 Test Cases**

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1. Preface

1.1 Purpose of this Document

The purpose of this document is to identify the NPAC Release 3.3.4 Test Cases. These Test Cases are based on NPAC SMS Release 3.3.4 (and all respective point release) requirements.

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

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

The different NPAC regions will turn-up Release 3.3.4 software at different times. As a result Service Providers that operate in multiple regions will need to handle Release 3.3 and Release 3.3.4 interfaces (and respective data) simultaneously. This test plan does not include any guidelines or test cases for the purpose of testing backward compatibility between NPAC SMS releases.

1.2 Assumptions

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

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

1.3 Audience

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

1.4 Conventions Used in this Document

1.1.1. Test Case Template

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

A. TEST IDENTITY

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

B. REFERENCES

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

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

C. PREREQUISITE

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

D. TEST STEPS and EXPECTED RESULTS

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

E. Pass/Fail Analysis, TC #

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

1.1.2. Test Case Numbering

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

Numeric Prefix	**Respective Functional Component**
NANC 416	BDD File for Notifications – Adding New Attributes
NANC 440	FCC Order, Medium Timers
NANC 441	FCC Order, SOA Indicator

1.1.3. Test Case Priority

Each Test Case will have an associated Test Case Priority.

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

Conditional: This Test Case represents optional functionality. If a Service Provider has implemented the suggested functionality for this respective Service Provider system in the Test Case, they shall execute the Test Case as written. If there are not any Service Providers that have implemented the functionality, and therefore cannot verify the NPAC

SMS behavior, the NPAC personnel shall execute the Test Case with the use of simulators.

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

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

1.1.4. Test Case Prerequisites

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

1.1.5. Test Case Steps and Expected Results

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

1.1.6. Pass/Fail Analysis

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

1.5 Related Documents

North American Number Council (NANC) Functional Requirements Specification Number Portability Administration Center (NPAC) Service Management System (SMS), Release 3.3.4b

NPAC SMS Interoperable Specifications NANC Version 3.3.4b

1.6 Document Structure

This document is organized into sections as defined below:

Preface (1)	This section describes the purpose and structure of this document
RSMS 3.3.4 Turn Up Test Cases (Sections 2-4)	Test Cases – one section for each change order

Additional/Optional Regression	A subset of regression test scenarios service providers may optionally perform using specific service provider profile settings for the "other" service provider party to the testing scenario which demonstrate backward compatibility when using the core functions of the application. *This is *not* the regression phase of Turn Up Test, only additional, optional testing.
Appendix A	Test Case Matrix including a List of Objectives and Results Table
Appendix B	Issues [indicate open/date and closed/date]

1.7 Requirements for Turn-Up Testing

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

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

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

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

(c) When a local product (SOA/LSMS) is compiled with the current interface model, and a new local feature (SOA/LSMS feature) is implemented that does NOT involve a change in the use of the interface model, and the NPAC SMS is compiled with the current model, then Turn-Up Testing is optional. Test cases to be performed are at the discretion of the Service Provider. [standard regression test cases].

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

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

(f) When a local product is compiled with the new interface model, and new local features are implemented that involve the interface, and the NPAC SMS is compiled with the new interface model, then Turn-Up Testing is required **[standard regression test cases and new functionality test cases]**.

(g) When a local product is compiled with the current interface model, and new local features are implemented that involve the interface, and the NPAC SMS is compiled with the current model, then Turn-Up Testing is required **[standard regression test cases and new functionality test cases]**.

1.8 Turn-Up Testing Execution Considerations

1.8.1 Medium Timer Indicator, Timer Type and Business Hours in Notifications:

Only when the region supports Medium Timers is True can the Medium Timer Indicator be included in any notifications or notification BDD files.

objectCreation notifications generated as a result of an Inter-Service Provider subscription version create request will include Medium Timer Indicator, Timer Type and Business Hours uniquely when the respective Service Provider configurable for each attribute is set to TRUE. The same is true for the attributeValueChange notification. Furthermore, the Medium Timer Indicator is included in the attributeValueChange when the Service Provider supports this attribute, and it is modified. The Business Hours attribute will be included in the attributeValueChange when the Service Provider supports the attribute, and it is modified (which can only happen as a result of a change to the Medium Timer Indicator, in certain circumstances). There may be a situation where a Service Provider issues a modify to the Medium Timer Indicator which *does not* result in a change to the Business Hours attribute value; In this case the attributeValueChange will include the Medium Timer Indicator (since it was modified) – but the Business Hours attribute will not be included since it did not change.

Within the notification BDD file: Medium Timer indicator, Timer Type and Business Hours are included uniquely (either a value or an empty placeholder when applicable) when the respective Service Provider configurable for each unique attribute is set to TRUE. Additionally, the Region supports tunable for the Medium Timer indicator must also be set to TRUE for the Medium Timer indicator to be included. These conditions must be true both at the time the notification was generated and at the time the BDD is created. If, for example the Service Provider supports only Medium Timers and Timer Type, and the Region Supports Medium Timers indicator both at the time the notification was originally generated and at the time the BDD was created, then the BDD will contain Medium Timer Indicator and Timer Type, but not Business Hours.

In the attributeValueChange notifications within a notification BDD file: Timer Type is included when the Service Provider under test supports both the Timer Type and Medium Timer Indicators

and the Region supports the Medium Timer indicator. The Business Hours attribute is included when the Service Provider under test supports Medium Timers and Business Hours and the Region supports Medium Timer indicator. Medium Timer indicator is included when the Service Provider supports Medium Timers and Timer Type together and the Region supports the Medium Timer indicator. Like in the objectCreation notification scenario, the Service Provider configurables and Region supports tunable must be set in these combinations at the time the notification was originally generated as well as at the time the BDD is requested for the attributes to be included in the AVC notification within the BDD.

RSMS 3.3.4 Turn Up Test Cases

2. NANC 416 – BDD File for Notifications – Adding New Attributes

We will test this functionality using the following (existing) test case enhanced specifically for the NANC 416, NANC 440 and NANC 441 features of the rsms 3.3.4 release.

A. TEST IDENTITY

Test Case Number:	**NANC 348-1**	**SUT Priority:**	**SOA**	Optional
			LSMS	N/A
Objective:	SOA - NPAC personnel create a Bulk Data Download file for SOA notification data specifying a service provider ID and time 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 348
NANC FRS Version Number:		**Relevant Requirement(s):**	RR3-220, RR3-462, RR3-463, RR3-464, RR3-465, RR3-466, RR3-467, RR3-468, RR3-469
NANC IIS Version Number:		**Relevant Flow(s):**	N/A

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	Work with the Service Provider under test to create porting scenarios that result in a subset of the following notifications: subscriptionVersionCancellationAcknowledgeRequest subscriptionVersionRangeCancellationAcknowledgeRequest subscriptionVersionDonorSP-CustomerDisconnectDate subscriptionVersionRangeDonorSP-CustomerDisconnectDate subscriptionVersionNewSP-CreateRequest subscriptionVersionRangeNewSP-CreateRequest subscriptionVersionOldSP-ConcurrenceRequest subscriptionVersionRangeOldSP-ConcurrenceRequest subscriptionVersionStatusAttributeValueChange subscriptionVersionRangeStatusAttributeValueChange subscriptionVersionNPAC-ObjectCreation (*including Medium Timer indicator if supported by the Service Provider under test) subscriptionVersionRangeNPAC-ObjectCreation (*including Medium Timer indicator if supported by the Service Provider under test) subscriptionVersionNPAC-attributeValueChange (*including Medium Timer indicator if supported by the Service Provider under test) subscriptionVersionRangeAttributeValueChange (*including Medium Timer indicator if supported by the Service Provider under test) subscriptionVersionNewSP-FinalCreateWindowExpiration subscriptionVersionRangeNewSP-FinalCreateWindowExpiration

	subscriptionAudit-DiscrepancyRpt subscriptionAuditResults subscriptionAudit-objectCreation subscription Audit-objectDeletion lnpNPAC-SMS-Operational-Information subscriptionVersionNewNPA-NXX subscriptionVersionOldSPFinalConcurrenceWindowExpiration subscriptionVersionRangeOldSPFinalConcurrenceWindowExpiration numberPoolBlock-objectCreation numberPoolBlock-attributeValueChange numberPoolBlockStatusAttributeValueChange **Note:** In the **objectCreation notifications** within a notification BDD file: Medium Timer indicator, Timer Type and Business Hours are included uniquely (either a value or an empty placeholder when applicable) when the respective Service Provider configurable for each unique attribute is set to TRUE. Additionally, the Region supports tunable for the Medium Timer indicator must also be set to TRUE for the Medium Timer indicator to be included. These conditions must be true both at the time the notification was generated and at the time the BDD is created. If, for example the Service Provider supports only Medium Timers and Timer Type, and the Region Supports Medium Timers indicator both at the time the notification was originally generated and at the time the BDD was created, then the BDD will contain Medium Timer Indicator and Timer Type, but not Business Hours. In the **attributeValueChange notifications** within a notification BDD file: Timer Type is included when the Service Provider under test supports both the Timer Type and Medium Timer Indicators and the Region supports the Medium Timer indicator. The Business Hours attribute is included when the Service Provider under test supports Medium Timers and Business Hours and the Region supports Medium Timer indicator. Medium Timer indicator is included when the Service Provider supports Medium Timers and the Region supports the Medium Timer indicator. Like in the objectCreation notification scenario, the Service Provider configurables and Region supports tunable must be set in these combinations at the time the notification was originally generated as well as at the time the BDD is requested for the attributes to be included in the AVC notification within the BDD.
Prerequisite SP Setup:	Verify all Service Provider configurable settings reflect production values prior to performing functions to generate notifications for the BDD.

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	NPAC	NPAC personnel request a Bulk Data Download for Notification Data, specifying the Service Provider under test and a Time Range equal to the prerequisite activities.	NPAC	1. The NPAC SMS receives the request from the NPAC OP GUI. 2. The NPAC SMS generates the Bulk Data Download File.
2.	SP	Service Provider personnel FTP the Bulk Data Download File and load the file into their SOA.	SP	Service Provider personnel successfully process the BDD file.
3.	SP	Service Provider personnel, using their SOA, perform a local query	SP	The Notification data was loaded.

optional		for the Notification Data to verify that the Notification data was loaded.		

E. Pass/Fail Analysis, NANC 348-1

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

3. NANC 440 – FCC Order, Medium Timers

This change order introduces the Service Provider and System tunables required to support Medium Timer ports. These tunables will be tested as a result of Medium Timer Port scenarios tested with NANC 441 test cases.

4. NANC 441 – FCC Order, SOA Indicator

A. TEST IDENTITY

Test Case Number:	**NANC 441-1**	**SUT Priority:**	**SOA**	Conditional
			LSMS	N/A
Objective:	SOA – New Service Provider (System Under Test – (SUT)) issues a single TN, Inter-SP Create, setting the Medium Timer Indicator (MTI) to True. Wait for the T1 and T2 Timers to expire. Old Service Provider issues a create where the Medium Timer Indicator is set to False. Both Service Provider Profiles indicate they support Medium Timers. Initial Concurrence Timer is re-set. T2 notification is sent to NSP based on the L-12.0b Notification Priority Setting – Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 440 & NANC 441
NANC FRS Version Number:		**Relevant Requirement(s):**	RR3-182, R5-15.1, R5-18.1, RR5-182, RR5-183, RR5-184
NANC IIS Version Number:		**Relevant Flow(s):**	B.5.1.2, B.5.1.6.2, B.5.1.6.3, B.5.1.4

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	
Prerequisite SP Setup:	1. The Service Provider under test is assigned the code as indicated in the network data defined in the NPAC SMS OR the TN that will be used is currently an 'active' Subscription Version associated with the Service Provider under test. 2. Verify all Service Provider configurables are set to their production values for the Service Provider under test. 3. Verify the SOA Supports Medium Timer Indicator is set to the production value for the Service Provider under test.

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	1. Using the SOA, New Service Provider Personnel submit a request to Create a 'pending', Inter-Service Provider, Subscription Version specifying a TN that is either already	NPAC	The NPAC SMS receives the M-ACTION Request subscriptionVersionNewSP-Create from the Service Provider SOA.

		'active' OR is within an NPA-NXX associated with their SPID in the NPAC SMS network data. 2. The New Service Provider SOA sends an M-ACTION subscriptionVersionNewSP-Create to the NPAC SMS lnpSubscription object to create a new subscriptionVersionNPAC. The New Service Provider must specify the following attributes: • subscriptionTN or a valid subscriptionVersionTN-Range • subscriptionNewCurrentSP • subscriptionOldSP • subscriptionNewSP-DueDate (seconds set to zero) • subscriptionLNPType • subscriptionPortingToOriginal-SP Switch • subscriptionNewSPMediumTimerIndicator – **Set to TRUE** • subscriptionLRN • 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 • subscriptionSVType – if supported by the Service Provider SOA The following attributes are optional (when PTO=False): • subscriptionEndUser LocationValue • subscriptionEndUser LocationType • subscriptionBillingID • subscriptionOptionalData – at least one but not all elements supported by the Service Provider SOA.		
2.	NPAC	The NPAC SMS issues an M-	NPAC	NPAC Personnel verify that the Subscription Version with LNP

		CREATE subscriptionVersionNPAC to itself to create the Subscription Version and set the status to 'pending', as well as the subscriptionModifiedTimeStamp and subscriptionCreationTimeStamp to the current date and time**.**		Type set to 'LSSP' exists on the NPAC SMS. Specifically verify that the MTI indicator has been set for the SV as well as appropriate Business Hours and Timer Type.
3.	NPAC	The NPAC SMS issues a successful M-ACTION Response subscriptionVersionNewSP-Create to the originating SOA.	SP	On the SOA, verify that the Subscription Version with LNP Type set to 'LSSP' exists.
4.	NPAC	NPAC SMS issues an M-EVENT-REPORT objectCreation to the Old Service Provider SOA including the following information: • subscriptionVersionID • subscriptionTN • subscriptionOldSP • subscriptionNewCurrentSP • subscriptionNewSP-CreationTimeStamp • subscriptionVersionStatus • subscriptionNewSP-DueDate (seconds set to zeros) • subscriptionTimerType – if supported by the Service Provider SOA • subscriptionBusinessType – if supported by the Service Provider SOA • subscriptionNewSPMediumTimerIndicator – if supported by the Service Provider SOA indicating this Subscription Version has been created on the NPAC SMS.	SP	Verify that the Subscription Version with LNP Type set to 'LSSP' exists on the NPAC SMS.
5.	NPAC	NPAC SMS issues an M-EVENT-REPORT objectCreation to the New Service Provider SOA indicating this Subscription Version has been created on the NPAC SMS.	SP	Verify that the Subscription Version with LNP Type set to 'LSSP' exists on the NPAC SMS.
6.	NPAC	1. Wait for the Medium Initial Concurrence Timer to expire based on the system tunable interval: • NPAC SMS issues an M-EVENT-REPORT subscriptionVersionOldSP-ConcurrenceRequest to the Old Service Provider SOA at the Initial interval. 2. Wait for the Medium Final Concurrence Timer to expire based on the system tunable	SP	1. Old Service Provider SOA receives the M-EVENT-REPORT at the Medium Initial Concurrence interval and issues an M-EVENT-REPORT Confirmation to the NPAC SMS. 2. Old Service Provider SOA receives the M-EVENT-REPORT at the Medium Final Concurrence interval and issues an M-EVENT-REPORT Confirmation to the NPAC SMS. 3. If the New Service Provider supports it, their SOA receives the M-EVENT-REPORT at the Medium Final Concurrence interval and issues an M-EVENT-REPORT Confirmation to the NPAC SMS.

		interval: • NPAC SMS issues an M-EVENT-REPORT subscriptionVersionOldSPFinalConcurrenceWindowExpiration to the Old Service Provider SOA at the Final interval. • NPAC SMS issues an M-EVENT-REPORT subscriptionVersionOldSPFinalConcurrenceWindowExpiration to the New Service Provider SOA (based on their NPAC Customer SOA Supports New SP Notification of Old SP T2 Expiration Indicator) at the Final interval.		
7.	NPAC	Acting as the Old Service Provider, issue an M-ACTION subscriptionVersionOldSP-Create for the TN used in this test case. The following attributes must be specified: • subscriptionTN or a valid subscriptionVersionTN-Range • subscriptionNewCurrentSP • subscriptionOldSP • subscriptionOldSP-Authorization • subscriptionOldSP-DueDate (seconds set to zeros) • subscriptionLNPType • subscriptionOldSPMediumTimerIndicator – **Set to FALSE**	NPAC	NPAC SMS verifies the request is valid. The NPAC SMS issues an M-SET Request subscriptionVersionNPAC to set the subscriptionOldSP-AuthorizationTimeStamp and subscriptionModifiedTimeStamp and all other attributes specified in the request. The Initial and Final Concurrence Timers are deleted and re-set. The NPAC SMS issues and M-ACTION Response subscriptionVersionOldSP-Create to the Old Service Provider indicating the request was processed successfully.
8.	NPAC	NPAC SMS issues an M-EVENT-REPORT attributeValueChange to the Old Service Provider SOA for all attributes updated as a result of the Old Service Provider Release including: • subscriptionOldSP-DueDate • subscriptionOldSP-Authorization • subscriptionOldSP-AuthorizationTimeStamp • subscriptionTimerType – if supported by the Service provider SOA (this will be set based on the default processing rules as a result of the Port In and Port Out	NPAC	NPAC SMS (Old Service Provider simulator) issues an M-EVENT-REPORT attributeValueChange Confirmation to the NPAC SMS.

		configurables in both Service Provider profiles) • subscriptionBusinessType – if supported by the Service Provider SOA (this will be set based on the default processing rules as a result of the Business Hours and Business Days configurables in both Service Provider profiles) • subscriptionOldSPMediumTimerIndicator – (FALSE)		
9.	NPAC	NPAC SMS issues an M-EVENT-REPORT attributeValueChange to the New Service Provider SOA. • subscriptionOldSP-DueDate • subscriptionOldSP-Authorization • subscriptionOldSP-AuthorizationTimeStamp • subscriptionTimerType – if supported by the Service provider SOA (this will be set based on the default processing rules as a result of the Port In and Port Out configurables in both Service Provider profiles) • subscriptionBusinessType – if supported by the Service Provider SOA (this will be set based on the default processing rules as a result of the Business Hours and Business Days configurables in both Service Provider profiles) • subscriptionOldSPMediumTimerIndicator – (FALSE)	SP	New Service Provider SOA issues an M-EVENT-REPORT attributeValueChange confirmation to the NPAC SMS.
10.	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 the Timer Type and Business Hours are set according to default porting rules based on the New and Old Service Provider's Port In, Port Out, Business Hours and Business Days settings in their Service Provider profiles.
11. optional	SP	Service Provider personnel, perform a local query for the Subscription Version.	SP	New Service Provider personnel verify that the Subscription Version exists with a status of Pending and the Timer Type and Business Hours (if they support them) are set according to default porting rules based on the New and Old Service Provider's Port In, Port Out, Business Hours and Business Days settings in their Service Provider profiles.

E. Pass/Fail Analysis, NANC 441-1

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 441-2**	**SUT Priority:**	**SOA**	Conditional
			LSMS	N/A
Objective:	SOA – Old Service Provider (SUT) issues a single TN, Inter-SP Create, setting the MTI to True. New Service Provider issues a create and sets MTI to False. Both Service Provider profiles indicate they support Medium Timers. – Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 440 and NANC 441
NANC FRS Version Number:		**Relevant Requirement(s):**	RR3-182, R5-18.1, RR5-182, RR5-183, RR5-184
NANC IIS Version Number:		**Relevant Flow(s):**	B.5.1.1, B.5.1.3

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	
Prerequisite SP Setup:	1. The Service Provider under test is assigned the code as indicated in the network data defined in the NPAC SMS OR the TN that will be used is currently an 'active' Subscription Version associated with the Service Provider under test. 2. Verify all Service Provider configurables are set to their production values for the Service Provider under test. 3. Verify the SOA Supports Medium Timer Indicator is set to the production value for the Service Provider under test.

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	1. Using the SOA, Old Service Provider Personnel submit a request to Create a 'pending', Inter-Service Provider, Subscription Version specifying a TN that is either already 'active' OR is within an NPA-NXX associated with their SPID in the NPAC SMS network data. 2. The Old Service Provider SOA sends an M-ACTION subscriptionVersionOldSP-Create to the NPAC SMS lnpSubscription object to create a new subscriptionVersionNPAC. The Old Service Provider must specify the following attributes:	NPAC	The NPAC SMS receives the M-ACTION Request subscriptionVersionOldSP-Create from the Service Provider SOA.

		• subscriptionTN or a valid subscriptionVersionTN-Range • subscriptionNewCurrentSP • subscriptionOldSP • subscriptionOldSP-DueDate (seconds set to zero) • subscriptionOldSP-Authorization • subscriptionLNPType • subscriptionNewSPMediumTimerIndicator – **Set to TRUE**		
2.	NPAC	The NPAC SMS issues an M-CREATE subscriptionVersionNPAC to itself to create the Subscription Version and set the status to 'pending', as well as the subscriptionModifiedTimeStamp and subscriptionCreationTimeStamp to the current date and time**.**	NPAC	NPAC Personnel verify that the Subscription Version with LNP Type set to 'LSSP' exists on the NPAC SMS. Specifically verify that the MTI indicator has been set for the SV as well as appropriate Business Hours and Timer Type.
3.	NPAC	The NPAC SMS issues a successful M-ACTION Response subscriptionVersionOldSP-Create to the originating SOA.	SP	On the SOA, verify that the Subscription Version with LNP Type set to 'LSSP' exists.
4.	NPAC	NPAC SMS issues an M-EVENT-REPORT objectCreation to the Old Service Provider SOA including the following information: • subscriptionVersionID • subscriptionTN • subscriptionOldSP • subscriptionNewCurrentSP • subscriptionOldSP-DueDate (seconds set to zeros) • subscriptionOldSP-Authorization (TRUE) • subscriptionOldSP-AuthorizationTimeStamp • subscriptionVersionStatus • subscriptionTimerType – if supported by the Service Provider SOA • subscriptionBusinessType – if supported by the Service Provider SOA • subscriptionOldSPMediumTimerIndicator – (TRUE)	SP	Old Service Provider SOA issues an M-EVENT-REPORT Confirmation to the NPAC SMS.
5.	NPAC	NPAC SMS issues an M-EVENT-REPORT objectCreation to the New Service Provider SOA indicating this Subscription Version has been created on the NPAC SMS including the same attributes specified in step 4 above, based on what the New Service Provider supports.	SP	New Service Provider SOA issues an M-EVENT-REPORT Confirmation to the NPAC SMS.

6.	NPAC	Acting as the New Service Provider, issue an M-ACTION subscriptionVersionNewSP-Create for the TN used in this test case. The following attributes must be specified: • subscriptionTN or a valid subscriptionVersionTN-Range • subscriptionNewCurrentSP • subscriptionOldSP • subscriptionNewSP-DueDate (seconds set to zeros) • subscriptionLNPType • subscriptionPortingToOriginal-SP Switch (FALSE) • subscriptionNewSPMediumTimerIndicator – **Set to TRUE** • subscriptionLRN • 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 • subscriptionSVType – if supported by the Service Provider SOA The following attributes are optional (when PTO=False): • subscriptionEndUser LocationValue • subscriptionEndUser LocationType • subscriptionBillingID • subscriptionOptionalData – at least one but not all elements supported by the Service Provider SOA.	NPAC	NPAC SMS verifies the request is valid. The NPAC SMS issues an M-SET Request subscriptionVersionNPAC to set the subscriptionModifiedTimeStamp, subscriptionCreationTimeStamp and all other attributes specified in the request. The NPAC SMS issues and M-ACTION Response subscriptionVersionNewSP-Create to the New Service Provider indicating the request was processed successfully.
7.	NPAC	NPAC SMS issues an M-EVENT-REPORT attributeValueChange to the Old Service Provider SOA for all attributes updated as a result of the New Service Provider Create	SP	Old Service Provider SOA issues an M-EVENT-REPORT attributeValueChange Confirmation to the NPAC SMS.

		including: • subscriptionNewSP-DueDate • subscriptionNewSP-CreationTimeStamp • subscriptionNewSPMediumTimerIndicator – (FALSE)		
8.	NPAC	NPAC SMS issues an M-EVENT-REPORT attributeValueChange to the New Service Provider SOA for all attributes updated as a result of the New Service Provider Create including: • subscriptionNewSP-DueDate • subscriptionNewSP-CreationTimeStamp • subscriptionNewSPMediumTimerIndicator – (FALSE)	SP	New Service Provider SOA issues an M-EVENT-REPORT attributeValueChange confirmation to the NPAC SMS.
9.	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 the Timer Type and Business Hours are set to Medium porting interval.
11. optional	SP	Service Provider personnel, perform a local query for the Subscription Version.	SP	Old Service Provider personnel verify that the Subscription Version exists with a status of Pending and the Timer Type and Business Hours (if they support them) are set to Medium porting interval.

E. Pass/Fail Analysis, NANC 441-2

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

A. TEST IDENTITY

Test Case Number:	**NANC 441-3**	**SUT Priority:**	**SOA**	Conditional
			LSMS	N/A
Objective:	NANC 440/441 – 3: SOA – New Service Provider modifies the MTI from False to True for a single TN, Inter-SP, Pending subscription version after the T1 Timer has expired (before the Old Service Provider has issued their release). – Success Let T2 timer expire; NSP will receive T2 expiry notification based on their support of the L-12.0b notification priority.			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 440 and NANC 441
NANC FRS Version Number:		**Relevant Requirement(s):**	RR3-182, R5-27.1, R5-29.1, RR5-182, RR5-183, RR5-184, RR5-186, RR5-188, RR5-189
NANC IIS Version Number:		**Relevant Flow(s):**	B.5.2.3 or B.5.2.4

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify a Pending SV exists where the SUT has already issued the New Service Provider create request. The NewSPMediumTimerIndicator should be set to TRUE, per test case objective, the Initial Concurrence Timer has expired, and the Old Service Provider has not yet issued their Old Service Provider release for the TN yet. 2. Verify all Service Provider configurables are set to their production values for the Service Provider under test. 3. Verify the SOA Supports Medium Timer Indicator is set to the production value for the Service Provider under test.
Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	New Service Provider SOA issues an M-ACTION Request subscriptionVersionModify for a Pending Subscription Version in which the Old Service Provider has not yet issued their release. The Medium Timer Indicator is currently set to False. New Service Provider SOA should specify only the subscriptionNewSPMediumTimerIndicator (**TRUE**) in the subscriptionVersionModify.	NPAC	NPAC SMS verifies the request is valid and issues an M-SET to itself for the modified attributes in the subscriptionVersionNPAC object as well as sets the subscriptionModifiedTimeStamp. NPAC SMS issues an M-SET Response to itself.
2.	NPAC	NPAC SMS issues an M-ACTION	SP	New Service Provider SOA receives the M-ACTION Response

		Response to the New Service Provider SOA indicating the request was successfully processed.		from the NPAC SMS.
3.	NPAC	NPAC SMS issues an M-EVENT-REPORT attributeValueChange to the Old Service Provider SOA for the attributes modified: • subscriptionTimerType – if supported by the Service Provider SOA (**MEDIUM**) • subscriptionBusinessHours – if supported by the Service Provider SOA (**MEDIUM**) • subscriptionNewSPMediumTimerIndicator (**TRUE**)	SP	Old Service Provider SOA receives the M-EVENT-REPORT attributeValueChange and issues an M-EVENT-REPORT Confirmation to the NPAC SMS.
4.	NPAC	NPAC SMS issues an M-EVENT-REPORT attributeValueChange to the New Service Provider SOA for the attributes modified: • subscriptionTimerType – if supported by the Service Provider SOA (**MEDIUM**) • subscriptionBusinessHours – if supported by the Service Provider SOA (**MEDIUM**) • subscriptionNewSPMediumTimerIndicator (**TRUE**)	SP	New Service Provider SOA receives the M-EVENT-REPORT attributeValueChange and issues an M-EVENT-REPORT Confirmation to the NPAC SMS.
5.	NPAC	1. Wait for the Medium Initial Concurrence Timer to expire based on the system tunable interval: • NPAC SMS issues an M-EVENT-REPORT subscriptionVersionOldSP-ConcurrenceRequest to the Old Service Provider SOA at the Initial interval. 2. Wait for the Medium Final Concurrence Timer to expire based on the system tunable interval: • NPAC SMS issues an M-EVENT-REPORT subscriptionVersionOldSPFinalConcurrenceWindowExpiration to the Old Service Provider SOA at the Final interval. • NPAC SMS issues an M-EVENT-REPORT subscriptionVersionOldSPFinalConcurrenceWindowExpirati	SP	1. Old Service Provider SOA receives the M-EVENT-REPORT at the Medium Initial Concurrence interval and issues an M-EVENT-REPORT Confirmation to the NPAC SMS. 2. Old Service Provider SOA receives the M-EVENT-REPORT at the Medium Final Concurrence interval and issues an M-EVENT-REPORT Confirmation to the NPAC SMS. 3. If the New Service Provider supports it, their SOA receives the M-EVENT-REPORT at the Medium Final Concurrence interval and issues an M-EVENT-REPORT Confirmation to the NPAC SMS.

		on to the New Service Provider SOA (based on their SV old SP final concurrence timer expiration to new SP priority setting) at the Final interval.		
6.	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 the Timer Type and Business Hours are set to Medium.
4. optional	SP	Service Provider personnel perform a local query for the Subscription Version.	SP	Service Provider personnel verify that the Subscription Version exists with a status of Pending.

E. Pass/Fail Analysis, NANC 441-3

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 SOA received the error response from the NPAC SMS and handled it appropriately.

A. TEST IDENTITY

Test Case Number:	**NANC 441-4**	**SUT Priority:**	**SOA**	Conditional
			LSMS	N/A
Objective:	NANC 440/441 – 4: SOA – Old Service Provider modifies the MTI for a range of TNs from True to False, Inter-SP, Pending (or Conflict) subscription version before the New Service Provider has issued their create – Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 440 and NANC 441
NANC FRS Version Number:		**Relevant Requirement(s):**	RR3-182, R5-27.13, R5-29.1, RR5-182, RR5-187, RR5-188, RR5-189
NANC IIS Version Number:		**Relevant Flow(s):**	B.5.2.3 or B.5.2.4

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify a range of Pending and/or Conflict SVs exists where the SUT has already issued the Old Service Provider release request. The OldSPMediumTimerIndicator should be set to TRUE, per test case objective, and the New Service Provider has not yet issued their New Service Provider create for the TN yet. 2. Verify all Service Provider configurables are set to their production values for the Service Provider under test. 3. Verify the SOA Supports Medium Timer Indicator is set to the production value for the Service Provider under test.
Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	Old Service Provider SOA issues an M-ACTION Request subscriptionVersionModify for a range of Pending and/or Conflict Subscription Versions in which the New Service Provider has not yet issued their create. The Medium Timer Indicator is currently set to True. Old Service Provider SOA should specify only the subscriptionOldSPMediumTimerIndicator (**FALSE**) in the subscriptionVersionModify.	NPAC	NPAC SMS verifies the request is valid and issues an M-SET to itself for the modified attributes in the subscriptionVersionNPAC object as well as sets the subscriptionModifiedTimeStamp. NPAC SMS issues an M-SET Response to itself.
2.	NPAC	NPAC SMS issues an M-ACTION Response to the Old Service	SP	Old Service Provider SOA receives the M-ACTION Response from the NPAC SMS.

		Provider SOA indicating the request was successfully processed.		
3.	NPAC	NPAC SMS issues depending on the Old Service Provider's TN Range Indicator either an M-EVENT-REPORT attributeValueChange or subscriptionVersionRangeAttributeValueChange to the Old Service Provider SOA for the attributes modified: • subscriptionTimerType – if supported by the Service Provider SOA (**LONG or SHORT** depending on the Port Out/Port In Timer Type in the Old and New Service Provider profiles) • subscriptionBusinessHours – if supported by the Service Provider SOA (**LONG or SHORT** depending on the Port Out/Port In Timer Type in the Old and New Service Provider profiles) • subscriptionOldSPMediumTimerIndicator (**FALSE**)	SP	Old Service Provider SOA receives the M-EVENT-REPORT attributeValueChange (or subscriptionVersionRangeAttributeValueChange) and issues an M-EVENT-REPORT Confirmation to the NPAC SMS.
4.	NPAC	NPAC SMS issues depending on the New Service Provider's TN Range Indicator either an M-EVENT-REPORT attributeValueChange or subscriptionVersionRangeAttributeValueChange to the New Service Provider SOA for the attributes modified: • subscriptionTimerType – if supported by the Service Provider SOA (**LONG or SHORT** depending on the Port Out/Port In Timer Type in the Old and New Service Provider profiles) • subscriptionBusinessHours – if supported by the Service Provider SOA (**LONG or SHORT** depending on the Port Out/Port In Timer Type in the Old and New Service Provider profiles) • subscriptionOldSPMediumTimerIndicator – if supported by the Service Provider SOA (**FALSE**)	SP	New Service Provider SOA receives the M-EVENT-REPORT attributeValueChange (or subscriptionVersionRangeAttributeValueChange) and issues an M-EVENT-REPORT Confirmation to the NPAC SMS.
5.	NPAC	NPAC personnel perform a query	NPAC	NPAC personnel verify that the Subscription Versions exist with

		for the Subscription Version.		a status of Pending or Conflict (same status as prior to the modify request) and the Timer Type and Business Hours are set to the appropriate value based on Port In/Port Out Timer Type and Business Hours/Business Days profile settings for the Old and New Service Providers.
4. optional	SP	Service Provider personnel perform a local query for the Subscription Version.	SP	Service Provider personnel verify that the Subscription Versions exist with a status of Pending or Conflict (same status as prior to the modify request).

E. Pass/Fail Analysis, NANC 441-4

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 441-5**	**SUT Priority:**	**SOA**	Conditional
			LSMS	N/A
Objective:	SOA – New Service Provider modifies the MTI from False to True for an Inter-SP, Porting to Original subscription version (before the Old Service Provider has issued their release) – Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 440 and NANC 441
NANC FRS Version Number:		**Relevant Requirement(s):**	RR5-183, R5-27.1, R5-27.2, R5-29.1, RR5-188, RR5-189
NANC IIS Version Number:		**Relevant Flow(s):**	B.5.2.3 or B.5.2.4

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify a Pending, Inter-SP, Porting to Original SV exists where the SUT has already issued the New Service Provider create request. The NewSPMediumTimerIndicator should be set to FALSE, per test case objective, and the Old Service Provider has not yet issued their Old Service Provider release for the TN yet. 2. Verify all Service Provider configurables are set to their production values for the Service Provider under test. 3. Verify the SOA Supports Medium Timer Indicator is set to the production value for the Service Provider under test.
Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	New Service Provider SOA issues an M-ACTION Request subscriptionVersionModify for a Pending Subscription Version in which the Old Service Provider has not yet issued their release. The Medium Timer Indicator is currently set to False. New Service Provider SOA should specify only the subscriptionNewSPMediumTimerIndicator (**TRUE**) in the subscriptionVersionModify.	NPAC	NPAC SMS verifies the request is valid and issues an M-SET to itself for the modified attributes in the subscriptionVersionNPAC object as well as sets the subscriptionModifiedTimeStamp. NPAC SMS issues an M-SET Response to itself.
2.	NPAC	NPAC SMS issues an M-ACTION Response to the New Service Provider SOA indicating the request	SP	New Service Provider SOA receives the M-ACTION Response from the NPAC SMS.

		was successfully processed.		
3.	NPAC	NPAC SMS issues an M-EVENT-REPORT attributeValueChange to the Old Service Provider SOA for the attributes modified: • subscriptionTimerType – if supported by the Service Provider SOA (**MEDIUM**) • subscriptionBusinessHours – if supported by the Service Provider SOA (**MEDIUM**) • subscriptionNewSPMediumTimerIndicator (**TRUE**)	SP	Old Service Provider SOA receives the M-EVENT-REPORT attributeValueChange and issues an M-EVENT-REPORT Confirmation to the NPAC SMS.
4.	NPAC	NPAC SMS issues an M-EVENT-REPORT attributeValueChange to the New Service Provider SOA for the attributes modified: • subscriptionTimerType – if supported by the Service Provider SOA (**MEDIUM**) • subscriptionBusinessHours – if supported by the Service Provider SOA (**MEDIUM**) • subscriptionNewSPMediumTimerIndicator (**TRUE**)	SP	New Service Provider SOA receives the M-EVENT-REPORT attributeValueChange and issues an M-EVENT-REPORT Confirmation to the NPAC SMS.
5.	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 the Timer Type and Business Hours are set to Medium.
6. optional	SP	Service Provider personnel perform a local query for the Subscription Version.	SP	Service Provider personnel verify that the Subscription Version exists with a status of Pending.

E. Pass/Fail Analysis, NANC 441-5

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 441-6**	**SUT Priority:**	**SOA**	Conditional
			LSMS	N/A
Objective:	NANC 440/441 – 6: SOA – New Service Provider attempts to modify the MTI for a single TN, Inter-SP, Pending (or Conflict) subscription version after the Old Service Provider has issued their create – Error			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 440 and NANC 441
NANC FRS Version Number:		**Relevant Requirement(s):**	RR5-186
NANC IIS Version Number:		**Relevant Flow(s):**	B.5.2.3 or B.5.2.4

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify a Pending or Conflict SV exists where the SUT has already issued the New Service Provider create request. The NewSPMediumTimerIndicator should be set to FALSE, and the Old Service Provider has also issued their Old Service Provider release for the TN. 2. Verify all Service Provider configurables are set to their production values for the Service Provider under test. 3. Verify the SOA Supports Medium Timer Indicator is set to the production value for the Service Provider under test.
Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	New Service Provider SOA issues an M-ACTION Request subscriptionVersionModify for a Pending or Conlict Subscription Version in which the Old Service Provider has also issued their release. The Medium Timer Indicator is currently set to False. New Service Provider SOA should specify only the subscriptionNewSPMediumTimerIndicator (**TRUE**) in the subscriptionVersionModify.	NPAC	NPAC SMS receives the M-ACTION Request subscriptionVersionModify from the Service Provider SOA and determines this is an error since the Old Service Provider has already issued their release for the same TN. **(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 Subscription Version.	NPAC	NPAC personnel verify that the Subscription Version exists with the same status as prior to the modify request (either Pending or Conflict).
4. optional	SP	Service Provider personnel perform a local query for the Subscription Version.	SP	Service Provider personnel verify that the Subscription Version exists with the same status as prior to the modify request (either Pending or Conflict).

E. Pass/Fail Analysis, NANC 441-6

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

A. TEST IDENTITY

Test Case Number:	**NANC 441-7**	**SUT Priority:**	**SOA**	Optional
			LSMS	N/A
Objective:	NANC 440/441 – 7: SOA – Old Service Provider modifies the MTI for a single TN, Inter-SP, Pending (or Conflict) subscription version after both Service Providers issued their initial create and prior to the activate – Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 440 and NANC 441
NANC FRS Version Number:		**Relevant Requirement(s):**	RR3-182, RR5-182, RR5-187, R5-27.3, RR5-188, R5-29.1
NANC IIS Version Number:		**Relevant Flow(s):**	B.5.2.3 or B.5.2.4

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify a Pending or Conflict SV exists where the SUT has already issued the Old Service Provider release request. The OldSPMediumTimerIndicator should be set to TRUE, and the New Service Provider has also issued their New Service Provider create for the TN. 2. Verify all Service Provider configurables are set to their production values for the Service Provider under test. 3. Verify the SOA Supports Medium Timer Indicator is set to the production value for the Service Provider under test.
Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	Old Service Provider SOA issues an M-ACTION Request subscriptionVersionModify for a single Pending or Conflict Subscription Version in which the New Service Provider has also issued their create. The Medium Timer Indicator is currently set to True. Old Service Provider SOA should specify only the subscriptionOldSPMediumTimerIndicator (**FALSE**) in the subscriptionVersionModify.	NPAC	NPAC SMS verifies the request is valid and issues an M-SET to itself for the modified attributes in the subscriptionVersionNPAC object as well as sets the subscriptionModifiedTimeStamp. NPAC SMS issues an M-SET Response to itself.
2.	NPAC	NPAC SMS issues an M-ACTION Response to the Old Service Provider SOA indicating the request was successfully processed.	SP	Old Service Provider SOA receives the M-ACTION Response from the NPAC SMS.

3.	NPAC	NPAC SMS issues an M-EVENT-REPORT attributeValueChange to the Old Service Provider SOA for the attributes modified: • subscriptionTimerType – if supported by the Service Provider SOA (**LONG or SHORT** depending on the Port Out/Port In Timer Type in the Old and New Service Provider profiles) • subscriptionBusinessHours – if supported by the Service Provider SOA (**LONG or SHORT** depending on the Port Out/Port In Timer Type in the Old and New Service Provider profiles) • subscriptionOldSPMediumTimerIndicator (**FALSE**)	SP	Old Service Provider SOA receives the M-EVENT-REPORT attributeValueChange and issues an M-EVENT-REPORT Confirmation to the NPAC SMS.
4.	NPAC	NPAC SMS issues depending on the New Service Provider's TN Range Indicator either an M-EVENT-REPORT attributeValueChange to the New Service Provider SOA for the attributes modified: • subscriptionTimerType – if supported by the Service Provider SOA (**LONG or SHORT** depending on the Port Out/Port In Timer Type in the Old and New Service Provider profiles) • subscriptionBusinessHours – if supported by the Service Provider SOA (**LONG or SHORT** depending on the Port Out/Port In Timer Type in the Old and New Service Provider profiles) • subscriptionOldSPMediumTimerIndicator – if supported by the Service Provider SOA (**FALSE**)	SP	New Service Provider SOA receives the M-EVENT-REPORT attributeValueChange and issues an M-EVENT-REPORT Confirmation to the NPAC SMS.
5.	NPAC	NPAC personnel perform a query for the Subscription Version.	NPAC	NPAC personnel verify that the Subscription Version exists with a status of Pending or Conflict (original status) and the Timer Type and Business Hours are set to the appropriate value based on Port In/Port Out Timer Type and Business Hours/Business Days profile settings for the Old and New Service Providers.
4. optional	SP	Service Provider personnel perform a local query for the Subscription Version.	SP	Service Provider personnel verify that the Subscription Version exists with a status of Pending or Conflict (original status).

E. Pass/Fail Analysis, NANC 441-7

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 441-8**	**SUT Priority:**	**SOA**	N/A
			LSMS	Optional
Objective:	NANC 440/441 – 8: – New Service Provider Personnel remove a Subscription Version from Conflict when the Timer Type and Business Type are set to 'MEDIUM' (after the Medium Conflict Resolution New Service Provider Restriction Tunable has expired) – Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 440 and NANC 441
NANC FRS Version Number:		**Relevant Requirement(s):**	RR3-220, RR3-462, RR3-463, RR3-464, RR3-465, RR3-466, RR3-467, RR3-468, RR3-469
NANC IIS Version Number:		**Relevant Flow(s):**	B.5.5.2

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify that the New and Old Service Provider's 'SOA Supports Timer Type' and 'SOA Supports Business Hours' are set to 'TRUE' in their Customer Profile. 2. Verify that a Subscription Version in 'Conflict' status exists with the Timer Type and Business Hours Type set to 'MEDIUM'. 3. Verify that both Service Providers have issued the initial Subscription Version Create for this SV. 4. Verify that the Conflict Resolution New Service Provider Restriction Tunable has expired. 5. The cause code on the subscription version to be used in this test case is set to either 52, 53 or 54.
Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	1. New Service Provider Personnel take action to remove a Subscription Version from Conflict, after the Medium Conflict Resolution New Service Provider Restriction Tunable has expired. 2. The New Service Provider System issues an M-ACTION Request subscriptionVersionRemovalFromConflict by specifying the Subscription Version TN or the Subscription Version ID.	NPAC	1. The NPAC SMS receives the M-ACTION Request from the New Service Provider SOA. 2. The NPAC verifies that the Medium Conflict Resolution New Service Provider Restriction Tunable has expired. 3. The NPAC SMS issues an M-SET Request to itself and updates the Subscription Version status to 'Pending'. 4. The NPAC SMS issues an M-SET Response to itself. 5. The NPAC SMS issues an M-ACTION Response back to the New Service Provider SOA indicating it successfully processed the request.
2.	NPAC	The NPAC SMS issues an M-EVENT-REPORT subscriptionVersionStatusAttributeV	SP	The New Service Provider SOA receives the M-EVENT-REPORT from the NPAC SMS and issues an M-EVENT-REPORT Confirmation back to the NPAC.

		alueChange to the New Service Provider SOA, to update the Subscription Version status to 'Pending'.		
3. optional	NPAC	The NPAC SMS issues an M-EVENT-REPORT subscriptionVersionStatusAttributeValueChange to the Old Service Provider SOA to update the Subscription Version status to 'Pending'.	SP	The Old Service Provider SOA receives the M-EVENT-REPORT from the NPAC SMS and issues an M-EVENT-REPORT Confirmation back to the NPAC.
4.	NPAC	The NPAC SMS issues an M-EVENT-REPORT subscriptionVersionAttributeValueChange to the New Service Provider SOA to update the Old Service Provider Authorization to 'TRUE' for the SV.	SP	The New Service Provider SOA receives the M-EVENT-REPORT from the NPAC SMS and issues an M-EVENT-REPORT Confirmation back to the NPAC.
5.	NPAC	The NPAC SMS issues an M-EVENT-REPORT subscriptionVersionAttributeValueChange to the Old Service Provider SOA to update the Old Service Provider Authorization to 'TRUE' for the SV.	SP	The Old Service Provider SOA receives the M-EVENT-REPORT from the NPAC SMS and issues an M-EVENT-REPORT Confirmation back to the NPAC.
6.	NPAC	NPAC Personnel query for the Subscription Version that was removed from Conflict in this Test Case.	NPAC	The Subscription Version exists with a status of 'Pending'.
7.	SP-Conditional	Service Provider Personnel, using either their SOA or SOA LTI, perform an NPAC query for the Subscription Version that was removed from Conflict in this Test Case.	SP	The Subscription Version exists with a status of 'Pending'.
8.	SP-Optional	Service Provider Personnel, using their SOA, perform a local query for the Subscription Version that was removed from Conflict in this Test Case.	SP	The Subscription Version exists with a status of 'Pending'.

E. Pass/Fail Analysis, NANC 441-8

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

Additional/Optional Regression Testing (in addition to the actual Regression Phase of Turn Up Testing)

For Service Provider's that support MTI the following subset of Regression Test Cases can optionally be executed where the other service provider (profile established by Test Engineers) also supports Medium Timers such that the Timer Type and Business Hours set by the NPAC SMS will be Medium and notifications and porting rules will reflect Medium Timers.

For Service Provider's that do not support MTI, the following subset of Regression Test Cases can optionally be executed where the other service provider (profile established by Test Engineers) does support Medium Timers. In this situation the NPAC SMS will establish Timer Type and Business Hours for the Subscription Versions and notifications and porting rules will occur as if neither Service Provider supports MTI.

8.1.2.1.1.18 Create intra-service provider 'pending' port of a single TN via the SOA Mechanized Interface. – Success	
Purpose:	Create an intra-service provider 'pending' port consisting of a single TN and all mandatory data elements via the SOA Mechanized Interface.
Requirements:	• RR5-45
Requirements:	The NPA-NXX of the TN is owned by another service provider (not the Old Service Provider or the New Service Provider). One or more ported TNs exist for the NPA-NXX. The LRN is a valid LRN value for a switch owned by the New Service Provider. The new Service Provider due date is set to the current date.
Expected Results:	RESULT-1: A subscription version with a status of 'pending' is created on the NPAC SMS for the TN. RESULT-2: The NPAC SMS issues a successful action reply to the New Service Provider's SOA (originating SOA). RESULT-3: The successful action reply is received by the New Service Provider's SOA. RESULT-4: The NPAC SMS issues an objectCreation notification containing~~the old SPID, new SPID, TN, new SP due date, new SP creation time stamp, NPAC version id and NPAC version status to the New Service Provider's SOA~~: subscriptionVersionID subscriptionTN subscriptionOldSP subscriptionNewCurrentSP subscriptionNewSP-CreationTimeStamp subscriptionVersionStatus subscriptionNewSP-DueDate subscriptionTimerType – if supported by the Service Provider SOA subscriptionBusinessType – if supported by the Service Provider SOA RESULT-5: The New Service Provider's SOA receives the objectCreation notification and issues a confirmed reply to the NPAC SMS.

Actual Results:	

8.1.2.1.1.32 Create inter-service provider 'pending' port (concurrence) of a single TN via the SOA Mechanized Interface. – Success	
Purpose:	Create an inter-service provider 'pending' port consisting of a single TN and all mandatory data elements via the SOA Mechanized Interface.
Requirements:	•
Prerequisites:	The NPA-NXX of the TN is owned by the Old Service Provider. One or more ported TNs exist for the NPA-NXX. The old SP due date is set to the current date.
Expected Results:	RESULT-1: A subscription version with a status of 'pending' is created on the NPAC SMS for the TN. RESULT-2: The NPAC SMS issues a successful action reply to the New Service Provider's SOA (originating SOA). RESULT-3: The successful action reply is received by the New Service Provider's SOA. RESULT-4: The NPAC SMS issues an objectCreation notification containing ~~the old SPID, new SPID, TN, old SP due date, old SP authorization time stamp, old SP authorization, NPAC version id and NPAC version status to the Old Service Provider's SOA and the New Service Provider's SOA~~ : subscriptionVersionID subscriptionTN subscriptionOldSP subscriptionNewCurrentSP subscriptionNewSP-CreationTimeStamp subscriptionVersionStatus subscriptionNewSP-DueDate subscriptionTimerType – if supported by the Service Provider SOA subscriptionBusinessType – if supported by the Service Provider SOA subscriptionNewSPMediumTimerIndicator – if supported by the Service Provider SOA RESULT-5: The Old Service Provider's SOA receives the objectCreation notification and issues a confirmed reply to the NPAC SMS. RESULT-6: The New Service Provider's SOA receives the objectCreation notification and issues a confirmed reply to the NPAC SMS. RESULT-7: The Initial Concurrence Window timer is set by the NPAC SMS. RESULT-8: The Initial Concurrence Window timer expires and a newSP-CreateRequest notification is sent to the New Service Provider's SOA. RESULT-9: The Final Concurrence Window timer is set by the NPAC SMS. RESULT-10: The Final Concurrence Window timer expires. RESULT-11: The new service provider has up to the "Service Provider Final Concurrence Window" to respond to the request. If the new service provider SOA responds with a valid M-ACTION or M-SET processing resumes as a successful create.
Actual Results:	

A. TEST IDENTITY

Test Case Number:	**2.1**	**SUT Priority:**	**SOA**	C
			LSMS	N/A
Objective:	SOA - Old SP Personnel create a range of Inter-Service Provider subscription versions. Their Customer TN Range Notification Indicator is set to their production value. New SP does not submit their create request. Initial and Final Concurrence Windows expire. – Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 179
NANC FRS Version Number:	3.1.0	**Relevant Requirement(s):**	RR3-237, RR3-239, RR5-113, RR5-115, R4-8
NANC IIS Version Number:	3.1.0	**Relevant Flow(s):**	B.5.1.1, B.5.1.6.4, B.5.1.6.5

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify that the Customer TN Range Notification Indicator is set to the production value for the Old Service Provider. 2. Verify that the SOA Notification Priority tunable parameters are set to the default values for the Old Service Provider. 3. Verify that this is the first port for the NPA-NXX. 4. Verify the SOA Supports SV Type, Optional Data support indicators and Medium Timer Support indicator are set to production values for the Service Provider under test.
Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	1. Using the SOA, Old SP Personnel submit an Inter-Service Provider subscription version Create request to the NPAC for a range of at least two consecutive TNs. Specify a due date that is greater than or equal to the NPA-NXX Live Timestamp. 2. The SOA sends an M-ACTION subscriptionVersionOldSP-Create to the NPAC for the range of TNs they wish to create.	NPAC	NPAC SMS receives the M-ACTION subscriptionVersionOldSP-Create request from the Old SP SOA and verifies that each attribute specified is valid according to system requirements.
2.	NPAC	1. NPAC SMS issues an M-CREATE Request subscriptionVersionNPAC to itself for each TN in the range to create the respective subscription versions on the	NPAC	NPAC SMS receives each M-CREATE Request subscriptionVersionNPAC for each TN in the range and issues an M-CREATE Response subscriptionVersionNPAC to itself for each TN to set the subscription versions status to 'pending' and set the subscriptionModifiedTimeStamp and subscriptionCreationTimeStamp to the current date and time for

		NPAC SMS. 2. The NPAC SMS proceeds to set the Initial and Final Concurrence Timers for this Subscription Version based on the New Service Provider Port-In Timer Type and SP Business Type and the Old Service Provider Port-Out Timer Type and SP Business Type settings in their respective Customer Profiles and if both Service Providers indicated in the port request support the Medium Timer Indicator, then the OldSPMediumTimerIndicator value is also considered.		each subscription version.
3.	NPAC	NPAC SMS issues an M-ACTION subscriptionVersionOldSP-Create Response to the Old SP SOA indicating the subscription versions were successfully created.	SP	Old SP SOA receives the M-ACTION subscriptionVersionOldSP-Create Response from the NPAC SMS indicating the subscription versions were successfully created, the status is 'pending' and the subscriptionModifiedTimeStamp and subscriptionCreationTimeStamp were set appropriately.
4	NPAC	NPAC SMS issues an M-EVENT-REPORT subscriptionVersionRangeObjectCreation to the Old SP SOA that contains one set of subscription version information for the range of TNs containing the following attributes: • start TN • end TN • start SVID • end SVID. • subscriptionVersionId • subscriptionTN • subscriptionOldSP • subscriptionNewCurrentSP • subscriptionOldSp-DueDate • subscriptionOldSP-Authorization • subscriptionOldSP-AuthorizationTimeStamp • subscriptionStatusChangeCauseCode (if subscriptionOldSP-Authorization set to false) • subscriptionVersionStatus • subscriptionTimerType (if supported) • subscriptionBusinessType (if supported) • subscriptionOldSPMediumTimerIndicator (if supported)	SP	Old SP SOA receives the M-EVENT-REPORT from the NPAC SMS.
5	SP	Old SP SOA issues an M-EVENT-	NPAC	NPAC SMS receives the M-EVENT-REPORT Confirmation

		REPORT Confirmation to the NPAC SMS indicating it successfully received the M-EVENT-REPORT from the NPAC SMS.		from the Old SP SOA.

6	NPAC	NPAC SMS issues an M-EVENT-REPORT to the New SP SOA based on their Customer TN Range Notification Indicator.
		• If the setting is TRUE, the NPAC SMS issues an M-EVENT-REPORT subscriptionVersionRangeObjectCreation notification that contains the following attributes:
		  • start TN
		  • end TN
		  • start SVID
		  • end SVID.
		  • subscriptionVersionId
		  • subscriptionTN
		  • subscriptionOldSP
		  • subscriptionNewCurrentSP
		  • subscriptionOldSP-DueDate
		  • subscriptionOldSP-Authorization
		  • subscriptionOldSP-AuthorizationTimeStamp
		  • subscriptionStatusChangeCauseCode (if subscriptionOldSP-Authorization set to false)
		  • subscriptionVersionStatus
		  • subscriptionTimerType (if supported)
		  • subscriptionBusinessType (if supported)
		  • subscriptionOldSPMediumTimerIndicator (if supported)
		• If the setting is FALSE the NPAC SMS issues an M-EVENT-REPORT objectCreation notification for each TN in the range.
			SP	New SP SOA receives the M-EVENT-REPORT from the NPAC SMS according to their Customer TN Range Notification Indicator.

7.	SP	New SP SOA issues an M-EVENT-REPORT Confirmation 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.	NPAC	NPAC SMS determines this is the first use for the NPA-NXX. 1. NPAC SMS issues an M-	SP	1. All LSMSs in the region accepting downloads for the NPA-NXX receives the M-EVENT-REPORT and issue an M-EVENT-REPORT Confirmation back to the NPAC SMS.

		EVENT-REPORT subscriptionVersionNewNPA-NXX to all LSMSs in the region accepting downloads for the NPA-NXX. 2. NPAC SMS issues an M-EVENT-REPORT subscriptionVersionNewNPA-NXX to Old and New SP SOAs.		2. Old SP SOA receives the M-EVENT-REPORT and issues an M-EVENT-REPORT Confirmation back to the NPAC SMS. 3. New SP SOA receives the M-EVENT-REPORT and issues an M-EVENT-REPORT Confirmation back to the NPAC SMS.
9.	NPAC	NPAC Personnel perform a query for the range of subscription versions created in this test case.	NPAC	The subscription versions exist with a status of 'pending'.
10.	SP – Optional	Via their SOA, Old SP Personnel perform a local query for the subscription versions created during this test case.	SP	The subscription versions exist with a status of 'pending'.
11.	SP – Conditional	Old SP Personnel perform an NPAC SMS query for the subscription versions created during this test case.	SP	The subscription versions exist with a status of 'pending' on the NPAC SMS.
12.	NPAC	NPAC SMS waits for concurrence from the New SP for the range of TN's the Old SP created.	SP	New SP SOA DOES NOT respond to the create request and the Service Provider Concurrence Window tunable expires.
13.	NPAC	Once the Initial Concurrence Window has expired, the NPAC SMS issues an M-EVENT-REPORT to the New SP SOA based on their Customer TN Range Notification Indicator. • If the setting is TRUE, the NPAC SMS issues an M-EVENT-REPORT subscriptionVersionRangeNewSP-CreateRequest notification that contains the following attributes: • start TN • end TN • start SVID • end SVID • subscriptionOldSP • subscriptionOldSP-DueDate • subscriptionOldSP-Authorization • subscriptionOldSP-AuthorizationTimeStamp • subscriptionStatusChangeCauseCode (if subscriptionOldSP-Authorization set to false) • subscriptionTimerType (if supported) • subscriptionBusinessType (if supported)	SP	New SP SOA receives the M-EVENT-REPORT(s) from the NPAC SMS.

		• If the setting is FALSE the NPAC SMS issues an M-EVENT-REPORT subscriptionVersionNewSP-CreateRequest for each TN in the range.		
14.	SP	New SP SOA issues M-EVENT-REPORT Confirmation(s) 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(s) from the New SP SOA.
15.	NPAC	NPAC SMS waits for concurrence from the New SP for the range of TN's the Old SP created.	SP	New SP SOA does not respond to the create request and the Final Concurrence Window expires.

16.	NPAC	Once the Final Concurrence Window has expired, the NPAC SMS issues an M-EVENT-REPORT subscriptionVersionRangeNewSP-FinalCreateWindowExpiration to the Old SP SOA according to their Final Create Window Expiration Notification Indicator setting
		• If the setting is TRUE, they will receive the notification containing the following attributes:
		  • start TN
		  • end TN
		  • start SVID
		  • end SVID
		  • subscriptionOldSP
		  • subscriptionNewCurrentSP
		  • subscriptionOldSP-DueDate
		  • subscriptionOldSP-Authorization
		  • subscriptionOldSP-AuthorizationTimeStamp
		  • subscriptionStatusChangeCauseCode (if subscriptionOldSP-Authorization set to false)
		  • subscriptionTimerType (if supported)
		  • subscriptionBusinessType (if supported)
		• If the setting is FALSE, no notification is sent.
			SP	Old SP SOA receives the M-EVENT-REPORT subscriptionVersionRangeNewSP-FinalCreateWindowExpiration from the NPAC SMS according to their Final Create Window Expiration Notification Indicator setting.

17.	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.

18.	NPAC	If the Final Create Window Expiration Notification Indicator is set to TRUE, NPAC SMS issues and M-EVENT-REPORT to the New SP SOA based on their Customer TN Range Notification Indicator.
		• If the setting is TRUE, the NPAC SMS issues a subscriptionVersionRangeNewSP-FinalCreateWindowExpiration notification that contains the following attributes:
		  • start TN
		  • end TN
		  • start SVID
		  • end SVID
		  • subscriptionOldSP
		  • subscriptionNewCurrentSP
		  • subscriptionOldSP-DueDate
		  • subscriptionOldSP-Authorization
		  • subscriptionOldSP-AuthorizationTimeStamp
		  • subscriptionStatusChangeCauseCode (if subscriptionOldSP-Authorization set to false)
		  • subscriptionTimerType (if supported)
		  • subscriptionBusinessType (if supported)
		• If the setting is FALSE, NPAC SMS issues a subscriptionVersionNewSP-FinalCreateWindowExpiration for each TN in the range.
		• If the Final Create Window Expiration Notification Indicator is set to FALSE, the NPAC SMS does not send the notification to the New SP SOA.
			SP	New SP SOA receives the M-EVENT-REPORT(s) from the NPAC SMS according to the setting of their Final Create Window Expiration Notification Indicator.

19.	SP	If the notification was received the New SP SOA issues M-EVENT-REPORT Confirmation(s) to the NPAC SMS indicating it successfully received the M-EVENT-REPORT from the NPAC SMS.	NPAC	If sent, NPAC SMS receives the M-EVENT-REPORT Confirmation(s) from the New SP SOA.
20.	NPAC	NPAC Personnel perform a query for the range of subscription versions created in this test case.	NPAC	The subscription versions exist with a status of ‘pending’.
21.	SP –	Via the SOA, Old SP Personnel	SP	The subscription versions exist with a status of ‘pending’.

	Optional	perform a local query for the subscription versions created during this test case.		
22.	SP – Conditional	Old SP Personnel perform an NPAC SMS query for the subscription versions created during this test case.	SP	The subscription versions exist with a status of 'pending' on the NPAC SMS.

A. TEST IDENTITY

Test Case Number:	**2.2**	**SUT Priority:**	**SOA**	C
			LSMS	N/A
Objective:	SOA – New Service Provider Personnel create a range of 3 Inter-Service Provider subscription versions. Their Customer TN Range Notification Indicator is set to their production value. Old Service Provider Personnel does not submit their create request. Initial Concurrence Window Expires. Final Concurrence Window Expires. – Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 179
NANC FRS Version Number:	3.1.0	**Relevant Requirement(s):**	RR5-113, RR5-114, RR6-81
NANC IIS Version Number:	3.1.0	**Relevant Flow(s):**	B.5.1.2, B.5.1.6.2, B.5.1.6.3

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. Verify that the Customer TN Range Notification Indicator is set to the production value for the New Service Provider. 2. Verify that the SOA Notification Priority tunable parameters are set to the default values for the New Service Provider. 3. Verify the SOA Supports SV Type, Optional Data support indicators and Medium Timer Support indicator are set to production values for the Service Provider under test.
Prerequisite SP Setup:	

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	1. Using the SOA, New SP Personnel submit an Inter-Service Provider subscription version Create request to the NPAC for a range of at least three consecutive TNs. Specify a due date that is equal to or greater than the NPA-NXX Live Timestamp. 2. The SOA sends an M-ACTION subscriptionVersionNewSP-Create to the NPAC SMS for the range of TNs they wish to create.	NPAC	NPAC SMS receives the M-ACTION subscriptionVersionNewSP-Create request from the New SP SOA and verifies that each attribute specified is valid according to system requirements.
2.	NPAC	1. NPAC SMS issues an M-CREATE Request subscriptionVersionNPAC to itself for each TN in the range to create the respective subscription versions on the NPAC SMS.	NPAC	NPAC SMS receives each M-CREATE Request subscriptionVersionNPAC for each TN in the range and issues an M-CREATE Response subscriptionVersionNPAC to itself for each TN to set the subscription versions status to 'pending' and set the subscriptionModifiedTimeStamp and subscriptionCreationTimeStamp to the current date and time for each subscription version.

		2. The NPAC SMS proceeds to set the Initial and Final Concurrence Timers for this Subscription Version based on the New Service Provider Port-In Timer Type and SP Business Type and the Old Service Provider Port-Out Timer Type and SP Business Type settings in their respective Customer Profiles and if both Service Providers indicated in the port request support the Medium Timer Indicator, then the NewSPMediumTimerIndicator value is also considered.		
3.	NPAC	NPAC SMS issues an M-ACTION subscriptionVersionNewSP-Create Response to the New SP SOA indicating the subscription versions were successfully created.	SP	New SP SOA receives the M-ACTION subscriptionVersionNewSP-Create Response from the NPAC SMS indicating the subscription versions were successfully created, the status is 'pending' and the subscriptionModifiedTimeStamp and subscriptionCreationTimeStamp were set appropriately.
4.	NPAC	NPAC SMS issues an M-EVENT-REPORT subscriptionVersionRangeObjectCreation to the New SP SOA that contains the following attributes: • start TN • end TN • start SVID • end SVID. • subscriptionVersionId • subscriptionTN • subscriptionOldSP • subscriptionNewCurrentSP • subscriptionNewSP-DueDate • subscriptionNewSP-CreationTimeStamp • subscriptionVersionStatus • subscriptionTimerType (if supported) • subscriptionBusinessType (if supported) • subscriptionNewSPMediumTimerIndicator (if supported)	SP	New SP SOA receives the M-EVENT-REPORT from the NPAC SMS.
5.	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.
6.	NPAC	NPAC SMS issues an M-EVENT-REPORT to the Old SP SOA based on their Customer TN Range Notification Indicator.	SP	Old SP SOA receives the M-EVENT-REPORT from the NPAC SMS according to their Customer TN Range Notification Indicator.

		• If the setting is TRUE, the NPAC SMS issues an M-EVENT-REPORT subscriptionVersionRangeObjectCreation that contains the following attributes:
		  • start TN
		  • end TN
		  • start SVID
		  • end SVID.
		  • subscriptionVersionId
		  • subscriptionTN
		  • subscriptionOldSP
		  • subscriptionNewCurrentSP
		  • subscriptionNewSP-DueDate
		  • subscriptionNewSP-CreationTimeStamp
		  • subscriptionVersionStatus
		  • subscriptionTimerType (if supported)
		  • subscriptionBusinessType (if supported)
		  • subscriptionNewSPMediumTimerIndicator (if supported)
		• If the setting is FALSE the NPAC SMS issues an M-EVENT-REPORT objectCreation for each TN in the range.		

7.	SP	Old SP SOA issues M-EVENT-REPORT Confirmation(s) indicating it successfully received the M-EVENT-REPORT(s) from the NPAC SMS.	NPAC	NPAC SMS receives the M-EVENT-REPORT Confirmation(s) from the Old SP SOA.
8.	NPAC	NPAC Personnel perform a query for the range of subscription versions created in this test case.	NPAC	The subscription versions exist with a status of 'pending'.
9.	SP – Optional	Via their SOA, New SP Personnel perform a local query for the subscription versions created during this test case.	SP	The subscription versions exist with a status of 'pending'.
10.	SP – Conditional	New SP Personnel perform an NPAC SMS query for the subscription versions created during this test case.	SP	The subscription versions exist with a status of 'pending' on the NPAC SMS.
11.	NPAC	NPAC SMS waits for concurrence from the Old SP for the range of TN's the New SP created.	SP	Old SP SOA DOES NOT respond to the create request and the Initial Concurrence Window expires.
12.	NPAC	Once the Initial Concurrence Window has expired, the NPAC SMS issues an M-EVENT-REPORT to the Old SP SOA based on their Customer TN Range Notification	SP	Old SP SOA receives the M-EVENT-REPORT(s) from the NPAC SMS according to their Customer TN Range Notification Indicator.

		Indicator.
		• If the setting is TRUE, the NPAC SMS issues one M-EVENT-REPORT subscriptionVersionRangeOldSP-ConcurrenceRequest notification that contains the following attributes:
		  • start TN
		  • end TN
		  • start SVID
		  • end SVID
		  • subscriptionNewSP
		  • subscriptionNewSP-DueDate
		  • subscriptionNewSP-CreationTimeStamp
		  • subscriptionTimerType (if supported)
		  • subscriptionBusinessType (if supported)
		• If the setting is FALSE, the NPAC SMS issues an M-EVENT-REPORT subscriptionVersionOldSP-ConcurrenceRequest for each TN in the range.		

13.	SP	Old SP SOA issues M-EVENT-REPORT Confirmation(s) 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(s) from the Old SP SOA.
14.	NPAC	NPAC SMS waits for concurrence from the Old SP for the range of TN's the New SP created.	SP	Old SP SOA DOES NOT respond to the create request and the Service Provider Concurrence Failure Window tunable expires.

15.	NPAC	NPAC SMS issues an M-EVENT-REPORT to the Old SP SOA based on their Customer TN Range Notification Indicator.
		• If the setting is TRUE, the NPAC SMS issues one M-EVENT-REPORT subscriptionVersionRangeOldSP-FinalConcurrenceWindowExpiration that contains the following attributes:
		  • start TN
		  • end TN
		  • start SVID
		  • end SVID
		  • subscriptionTimerType (if supported)
		  • subscriptionBusinessType
			SP	Old SP SOA receives the M-EVENT-REPORT from the NPAC SMS according to their Customer TN Range Notification Indicator

		(if supported) • If the setting is FALSE, NPAC SMS issues an M-EVENT-REPORT subscriptionVersionOldSP-FinalConcurrenceWindowExpiration for each TN in the range.		
16.	SP	Old SP SOA issues M-EVENT-REPORT Confirmation(s) 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(s) from the Old SP SOA.
17.	NPAC	If the SV old SP final concurrence timer expiration notify to new SP priority is set, NPAC SMS issues an M-EVENT-REPORT subscriptionVersionOldSPFinalConcurrenceWindowExpiration to the New Service Provider SOA at the Final interval.	SP	If the New Service Provider supports it, their SOA receives the M-EVENT-REPORT at the Final Concurrence interval and issues an M-EVENT-REPORT Confirmation to the NPAC SMS.
187.	NPAC	NPAC Personnel perform a query for the range of subscription versions created in this test case.	NPAC	The subscription versions exist with a status of 'pending'.
198.	SP – Optional	Via their SOA, New SP Personnel perform a local query for the subscription versions created during this test case.	SP	The subscription versions exist with a status of 'pending'.
2019.	SP – Conditional	New SP Personnel perform an NPAC SMS query for the subscription versions created during this test case.	SP	The subscription versions exist with a status of 'pending' on the NPAC SMS.

8.1.2.2.1.1 Modify required fields for a single TN 'pending' port with valid data. – Success	
Purpose:	New Service Provider issues a modify for each of the required fields for a single TN 'pending' port request which is not in conflict using valid data. The following are the required fields: LRN Due Date (set it equal to the NPA-NXX Live Timestamp) SV Type – if supported by the Service Provider SOA Medium Timer Indicator – if supported by the Service Provider SOA
Requirements:	R5-26, R5-27.1, R5-29.1, R5-29.3, R5-29.4, R5-31.3
Prerequisites:	Verify that the 'pending' Subscription Version to be modified exists on the NPAC SMS with a due date later than the current date and later than the NPA-NXX Live Timestamp. Pending port is not in conflict.
Expected Results:	RESULT-1: NPAC SMS receives the M-SET request for a subscription version modify from the New Service Provider. RESULT-2: NPAC SMS modifies the subscription version attributes in the subscriptionVersionNPAC object and set the subscriptionModifiedTimeStamp. RESULT-3: NPAC SMS issues an M-SET response to the New Service Provider. NOTE: Results 4 – 7 will only occur when one of the following attributes are modified: ~~New SP Due Date~~ ~~Old SP Authorization~~ ~~Status change Cause Code~~ subscriptionNewSP-DueDate subscriptionNewSP-CreationTimeStamp subscriptionOldSP-Authorization subscriptionOldSP-AuthorizationTimeStamp subscriptionStatusChangeCauseCode subscriptionTimerType – if supported by the Service Provider SOA subscriptionBusinessType – if supported by the Service Provider SOA subscriptionOldSPMediumTimerIndicator – if supported by the Service Provider SOA subscriptionNewSPMediumTimerIndicator – if supported by the Service Provider SOA RESULT-4: NPAC SMS issues an M-EVENT-REPORT attributeValueChange to the Old Service Provider. RESULT-5: The Old Service Provider SOA returns M-EVENT-REPORT confirmation to the NPAC SMS. RESULT-6: NPAC SMS issues M-EVENT-REPORT attributeValueChange to the New Service Provider SOA. RESULT-7: The New Service Provider SOA returns M-EVENT-REPORT confirmation to the NPAC SMS.
Actual Results:	

A. TEST IDENTITY

	Test Case Number:	**NANC 388-1**	**SUT Priority:**	**SOA**	Conditional
				LSMS	N/A
	Objective:	SOA – Using their SOA system, Service Provider personnel send an "un-do" cancel request to the NPAC SMS for a Subscription Version in a Cancel-Pending status for which they are either the New SP or Old SP that cancelled the SV – Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 388
NANC FRS Version Number:		**Relevant Requirement(s):**	RR5-143, RR5-144, RR5-147, RR5-150
NANC IIS Version Number:		**Relevant Flow(s):**	B.5.3.5

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	1. On behalf of either the Old or New Service Provider, work with the Service Provider under test to create/concur to a Subscription Version such that it exist in a Pending status.
Prerequisite SP Setup:	1. Create or concur to a Subscription Version where you are either the Old or New Service Provider. 2. Issue a cancel request for the Subscription Version/TN to be used in this test case. 3. Verify that the Subscription Version exists with a status of Cancel-Pending.

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	Using the SOA, Service Provider personnel submit an M-ACTION Request subscriptionVersionModify to the NPAC SMS, for a single TN Subscription Version that has a current status of Cancel-Pending with the new-version-status=Pending attribute only, to un-do the cancel request they previously submitted.	NPAC	NPAC SMS receives the M-ACTION Request subscriptionVersionModify from the Service Provider SOA.
2.	NPAC	The NPAC SMS validates the SOA Request and issues an M-SET Request subscriptionVersionNPAC to itself update the status attribute.	NPAC	NPAC SMS receives the M-SET Request subscriptionVersionNPAC.
3.	NPAC	The NPAC SMS issues an M-ACTION Response subscriptionVersionModify to the Service Provider SOA indicating the request was successfully processed by the NPAC SMS.	SP	The Service Provider SOA receives the M-ACTION Response from the NPAC SMS.
4.	NPAC	If the Old Service Provider's TN Range Notification Indicator is set to TRUE, the NPAC SMS issues an M-EVENT-REPORT	SP	The Old Service Provider's SOA receives the M-EVENT-REPORT from the NPAC SMS and issues an M-EVENT-REPORT Confirmation back.

		subscriptionVersionRangeStatusAttributeValueChange. If the Old Service Provider's TN Range Notification Indicator is set to FALSE, the NPAC SMS issues an M-EVENT-REPORT subscriptionVersionStatusAttributeValueChange. The M-EVENT-REPORT indicates the status is now Pending.		
5.	NPAC	If the New Service Provider's TN Range Notification Indicator is set to TRUE, the NPAC SMS issues an M-EVENT-REPORT subscriptionVersionRangeStatusAttributeValueChange. If the New Service Provider's TN Range Notification Indicator is set to FALSE, the NPAC SMS issues an M-EVENT-REPORT subscriptionVersionStatusAttributeValueChange. The M-EVENT-REPORT indicates the status is now Pending.	SP	The New Service Provider's SOA receives the M-EVENT-REPORT from the NPAC SMS and issues an M-EVENT-REPORT Confirmation back.
6.	NPAC	NPAC personnel perform a query for the Subscription Version.	NPAC	NPAC personnel verify that the Subscription Version exists with a status of Pending.
7. optional	SP	Service Provider personnel, perform a local query for the Subscription Version.	SP	Verify that the Subscription Version exists in the local database with a status of Pending.

E. Pass/Fail Analysis, NANC 388-1

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

8.1.2.7.1.1 Subscription Version Query – SOA. – Success	
Purpose:	This scenario shows Subscription Version query from service provider systems to the NPAC.
Requirements:	• R4-30.1, R4-30.2, R5-74.4, R4-29,R5-74.3
Prerequisites:	Subscription versions have been created. The Service Provider SOA SV Query Indicator is set to the service provider's production setting.
Expected Results:	RESULT-1: Service Provider takes action to retrieve one or more subscription versions. RESULT-2: The Service Provider SOA issues a scoped/filtered M-GET for a subscription version TN or all subscription versions. RESULT-3: The NPAC SMS replies with the requested data. i. For service providers whose Service Provider SOA SV Query Indicator is set to FALSE, the NPAC SMS replies with the requested subscription version data if the matching criteria is a number of records less than or equal to the "MaxSubscriberQuery" specified in the NPAC SMS. Otherwise a complexityLimitation error will be returned. ii. For service providers whose Service Provider SOA SV Query Indicator is set to TRUE, the NPAC SMS replies with a number of subscription version records less than or equal to the "Maximum Subscription Query" tunable value specified in the NPAC SMS. If the requested subscription version data exceeds the tunable value, then the number of local subscription version records that equal the tunable value will be returned. In this instance, the SOA will use the data returned to submit a subsequent query, starting with the next record from where the previous query results finished and the NPAC SMS will reply with additional subscription version data. The SOA will continue sending query requests and the NPAC SMS will continue issuing replies until the subscription version data returned by the NPAC SMS is for a number of records less than the tunable value. At this point the SOA will stop sending further query requests, as an NPAC SMS reply with a number of records less than the tunable value indicates all data has been sent.
Actual Results:	

A. TEST IDENTITY

Test Case Number:	**NANC 375-2**	**SUT Priority:**	**SOA**	Required
			LSMS	N/A
Objective:	SOA – Old Service Provider personnel remove a Subscription Version from Conflict status whose cause code is currently set to 50 or 51 – Success			

B. REFERENCES

NANC Change Order Revision Number:		**Change Order Number(s):**	NANC 375
NANC FRS Version Number:		**Relevant Requirement(s):**	RR5-138
NANC IIS Version Number:		**Relevant Flow(s):**	B.5.5.5

C. PREREQUISITE

Prerequisite Test Cases:	
Prerequisite NPAC Setup:	
Prerequisite SP Setup:	1. Place a Subscription Version into Conflict and set the cause code value to either 50 or 51 where you are the Old Service Provider for the port. 2. TN Used _____.

D. TEST STEPS and EXPECTED RESULTS

Row #	NPAC or SP	Test Step	NPAC or SP	Expected Result
1.	SP	Using the SOA, Service Provider personnel submit an M-ACTION Request subscriptionVersionRemoveFromConflict or an M-SET Request subscriptionVersionNPAC to the NPAC SMS, for a single TN Subscription Version that has a current status of Conflict and the cause code value equals either 50 or 51.	NPAC	NPAC SMS receives the request (M-ACTION Request subscriptionVersionRemoveFromConflict or M-SET subscriptionVersionNPAC) from the Service Provider SOA.
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 a response (either an M-ACTION Response subscriptionVersionRemoveFromConflict or M-SET subscriptionVersionNPAC based on	SP	The Service Provider SOA receives the response (either M-ACTION or M-SET Response) from the NPAC SMS.

		the original message issued by the SOA) to the Service Provider SOA indicating the request was successfully processed by the NPAC SMS.		
4.	NPAC	If the Old Service Provider's TN Range Notification Indicator is set to TRUE, the NPAC SMS issues an M-EVENT-REPORT subscriptionVersionRangeStatusAttributeValueChange. If the Old Service Provider's TN Range Notification Indicator is set to FALSE, the NPAC SMS issues an M-EVENT-REPORT subscriptionVersionStatusAttributeValueChange. The M-EVENT-REPORT indicates the status is now Pending.	SP	The Old Service Provider's SOA receives the M-EVENT-REPORT from the NPAC SMS and issues an M-EVENT-REPORT Confirmation back.
5.	NPAC	If the New Service Provider's TN Range Notification Indicator is set to TRUE, the NPAC SMS issues an M-EVENT-REPORT subscriptionVersionRangeStatusAttributeValueChange. If the New Service Provider's TN Range Notification Indicator is set to FALSE, the NPAC SMS issues an M-EVENT-REPORT subscriptionVersionStatusAttributeValueChange. The M-EVENT-REPORT indicates the status is now Pending.	SP	The New Service Provider's SOA receives the M-EVENT-REPORT from the NPAC SMS and issues an M-EVENT-REPORT Confirmation back.
6.	NPAC	If the Old Service Provider's TN Range Notification Indicator is set to TRUE, the NPAC SMS issues an M-EVENT-REPORT subscriptionVersionRangeAttributeValueChange. If the Old Service Provider's TN Range Notification Indicator is set to FALSE, the NPAC SMS issues an M-EVENT-REPORT attributeValueChange. The M-EVENT-REPORT indicates the authorization has been set to TRUE.	SP	The Old Service Provider's SOA receives the M-EVENT-REPORT from the NPAC SMS and issues an M-EVENT-REPORT Confirmation back.
7.	NPAC	If the New Service Provider's TN Range Notification Indicator is set to TRUE, the NPAC SMS issues an	SP	The New Service Provider's SOA receives the M-EVENT-REPORT from the NPAC SMS and issues an M-EVENT-REPORT Confirmation back.

		M-EVENT-REPORT subscriptionVersionRangeAttributeValueChange. If the New Service Provider's TN Range Notification Indicator is set to FALSE, the NPAC SMS issues an M-EVENT-REPORT attributeValueChange. The M-EVENT-REPORT indicates the authorization has been set to TRUE.		
8.	NPAC	NPAC personnel perform a query for the Subscription Version.	NPAC	NPAC personnel verify that the Subscription Version exists with a status of Pending.
9. optional	SP	Service Provider personnel, perform a local query for the Subscription Version.	SP	Verify that the Subscription Version exists in the local database with a status of Pending.

E. Pass/Fail Analysis, NANC 375-2

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 can verify the SV exists on the NPAC SMS with a status of Pending.

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 subscriptionVersionRangeAttributeValue Change including the attributes bulleted below: 2. If the setting is FALSE, NPAC SMS issues an M-EVENT-REPORT attributeValueChange including the	SP	The Old Service Provider SOA receives the M-EVENT-REPORT from the NPAC SMS.

		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 ~~subscriptionOldSP-DueDate~~
		  • ~~subscriptionOldSP-Authorization (set to FALSE)~~
		  • ~~subscriptionOldSP-AuthorizationTimeStamp~~
		  • ~~subscriptionStatusChangeCauseCode~~
		  • ~~subscriptionVersionStatus (Conflict)~~
		  • ~~subscriptionConflictTimeStamp~~
		  •		

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 ~~below~~in step 4 above: 2. If the setting is FALSE, NPAC SMS issues an M-EVENT-REPORT attributeValueChange 3. ~~including the attributes bulleted below:~~ 4. ~~subscriptionOldSP-DueDate~~ 5. ~~subscriptionOldSP-Authorization (set to FALSE)~~ 6. ~~subscriptionOldSP-AuthorizationTimeStamp~~ 7. ~~subscriptionStatusChangeCauseCode~~	SP	The New Service Provider SOA receives the M-EVENT-REPORT from the NPAC SMS.

		8. ~~subscriptionVersionStatus (Conflict) subscriptionConflictTimeStamp~~		
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.

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.7.2

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 (Alternative SPID, Voice URI, MMS URI, PoC URI, Presence URI) 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) NOTE: If the Service Provider SOA supports Optional Data elements (e.g. Alternative SPID, Voice URI, MMS URI) 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 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 (Alternative SPID, Voice URI, MMS URI, PoC URI, Presence URI) 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) 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 (e.g. Alternative SPID, Voice URI, MMS URI) 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 (Alternative SPID, Voice URI, MMS URI, PoC URI, Presence URI) 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 Service Provider SOA supports Optional Data elements (e.g. Alternative SPID, Voice URI, MMS URI) 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.

Appendix A: Test Case Matrix

NANC 416 – BDD File for Notifications – Adding New Attributes We are able to update an existing regression test case for the purposes of testing this feature.					
Test Case Priority	**Test Case #**	**Test Case Description**	**Req.**	**IIS Flow**	**Test Results/Issues/Comments**
SOA - Optional LSMS – N/A	348-1	SOA - NPAC personnel create a Bulk Data Download file for SOA notification data specifying a service provider ID and time range. Verification steps are performed to ensure the BDD file was processed successfully by the service provider system. – Success	RR3-220, RR3-462, RR3-463, RR3-464, RR3-465, RR3-466, RR3-467, RR3-468, RR3-469	N/A	
NANC 440 – FCC Order, Medium Timers This change order introduces the Service Provider and System tunables required to support Medium Timer ports. These tunables will be tested as a result of Medium Timer Port scenarios tested with NANC 441 test cases.					
NANC 441 – FCC Order, SOA Indicator					
Test Case Priority	**Test Case #**	**Test Case Description**	**Req.**	**IIS Flows**	**Test Results/Issues/Comments**
SOA – Conditional LSMS – N/A	441-1	SOA – New Service Provider (System Under Test – (SUT)) issues a single TN, Inter-SP Create, setting the Medium Timer Indicator (MTI) to True. Wait for the T1 and T2 Timers to expire. Old Service Provider issues a create where the Medium Timer Indicator is set to False. Both Service Provider Profiles indicate they support Medium Timers. Initial Concurrence Timer is re-set. T2 notification is sent to NSP based on the L-12.0b Notification Priority Setting – Success	RR3-182, R5-15.1, R5-18.1, RR5-182, RR5-183, RR5-184		
SOA – Conditional LSMS – N/A	441-2	SOA – Old Service Provider (SUT) issues a single TN, Inter-SP Create, setting the MTI to True. New Service Provider issues a create and sets MTI to False. Both Service Provider profiles indicate they support Medium Timers. – Success	RR3-182, R5-18.1, RR5-182, RR5-183, RR5-184		
SOA – Conditional	441-3	NANC 440/441 – 3: SOA – New Service Provider modifies the MTI from False to True for a single TN, Inter-SP, Pending subscription	RR3-182, R5-27.1, R5-29.1,		

LSMS – N/A		version after the T1 Timer has expired (before the Old Service Provider has issued their release). – Success Let T2 timer expire; NSP will receive T2 expiry notification based on their support of the L-12.0b notification priority.	RR5-182, RR5-183, RR5-184, RR5-186, RR5-188, RR5-189		
SOA – Conditional LSMS – N/A	441-4	NANC 440/441 – 4: SOA – Old Service Provider modifies the MTI for a range of TNs from True to False, Inter-SP, Pending (or Conflict) subscription version before the New Service Provider has issued their create – Success	RR3-182, R5-27.13, R5-29.1, RR5-182, RR5-187, RR5-188, RR5-189		
SOA – Conditional LSMS – N/A	441-5	SOA – New Service Provider modifies the MTI from False to True for an Inter-SP, Porting to Original subscription version (before the Old Service Provider has issued their release) – Success	RR5-183, R5-27.1, R5-27.2, R5-29.1, RR5-188, RR5-189		
SOA – Conditional LSMS – N/A	441-6	NANC 440/441 – 6: SOA – New Service Provider attempts to modify the MTI for a single TN, Inter-SP, Pending (or Conflict) subscription version after the Old Service Provider has issued their create – Error	RR5-186		
SOA – Conditional LSMS – N/A	441-7	NANC 440/441 – 7: SOA – Old Service Provider modifies the MTI for a single TN, Inter-SP, Pending (or Conflict) subscription version after both Service Providers issued their initial create and prior to the activate – Success	RR3-182, RR5-182, RR5-187, R5-27.3, RR5-188, R5-29.1		
SOA – Conditional LSMS – N/A	441-8	NANC 440/441 – 8: – New Service Provider Personnel remove a Subscription Version from Conflict when the Timer Type and Business Type are set to 'MEDIUM' (after the Medium Conflict Resolution New Service Provider Restriction Tunable has expired) – Success	RR3-220, RR3-462, RR3-463, RR3-464, RR3-465, RR3-466, RR3-467, RR3-468, RR3-469		
Additional/Optional Regression Testing					
Test Case Priority	**Test Case #**	**Test Case Description**	**Req.**	**IIS Flows**	**Test Results/Issues/Comments**
SOA – Required LSMS – N/A	8.1.2.1.1.18	Create intra-service provider 'pending' port of a single TN via the SOA Mechanized Interface. – Success	RR5-45		

SOA – Required LSMS – N/A	8.1.2.1.1.32	Create inter-service provider 'pending' port (concurrence) of a single TN via the SOA Mechanized Interface. – Success			
SOA – Conditional LSMS – N/A	2.1	SOA - Old SP Personnel create a range of Inter-Service Provider subscription versions. Their Customer TN Range Notification Indicator is set to their production value. New SP does not submit their create request. Initial and Final Concurrence Windows expire. – Success	RR3-237, RR3-239, RR5-113, RR5-115, R4-8	B.5.1.1, B.5.1.6.4, B.5.1.6.5	
SOA – Conditional LSMS – N/A	2.2	SOA – New Service Provider Personnel create a range of 3 Inter-Service Provider subscription versions. Their Customer TN Range Notification Indicator is set to their production value. Old Service Provider Personnel does not submit their create request. Initial Concurrence Window Expires. Final Concurrence Window Expires. – Success	RR5-113, RR5-114, RR6-81	B.5.1.2, B.5.1.6.2, B.5.1.6.3	
SOA – Required LSMS – N/A	8.1.2.2.1.1	Modify required fields for a single TN 'pending' port with valid data. – Success	R5-26, R5-27.1, R5-29.1, R5-29.3, R5-29.4, R5-31.3		
SOA – Conditional LSMS – N/A	NANC 388-1	SOA – Using their SOA system, Service Provider personnel send an "un-do" cancel request to the NPAC SMS for a Subscription Version in a Cancel-Pending status for which they are either the New SP or Old SP that cancelled the SV – Success	RR5-143, RR5-144, RR5-147, RR5-150	B.5.3.5	
SOA – Required LSMS – N/A	8.1.2.7.1.1	Subscription Version Query – SOA. – Success	R4-30.1, R4-30.2, R5-74.4, R4-29,R5-74.3		
SOA – Required LSMS – N/A	NANC 375-2	SOA – Old Service Provider personnel remove a Subscription Version from Conflict status whose cause code is currently set to 50 or 51 – Success	RR5-138	B.5.5.5	
SOA – Required LSMS – N/A	NANC 218-2	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	RR5-44.2, RR5-44.3	Based on B.5.1.4	
SOA – Required LSMS – N/A	NANC 187-5	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	RR6-85, RR6-86, RR6-84, RR6-92, RR6-89, RR6-94, RR6-91	B.7.2	

Appendix B: Test Plan Issues

Following are issues related to the NPAC Release 3.3.4 Test Plan:

#	Date	Issue	Status
1.			