**Origination Date:** 06/08/16

**Originator:** iconectiv

### Change Order Number: NANC 485

**Description:** Turn-Up Test Plan Doc-Only Clarifications

**Functional Backwards Compatible:** Yes

**IMPACT/CHANGE ASSESSMENT**

|  |  |  |
| --- | --- | --- |
| DOC | FRS | IIS |
| N | N |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CMIP | GDMO | ASN.1 | **NPAC** | SOA | LSMS |
| N | N | N | N | N |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| XML | XIS | XSD | **NPAC** | SOA | LSMS |
| N | N | N | N | N |

**Business Need**

Documentation updates.

**Description of Change:**

Changes detailed below.

Requirements:

Turn-up Test Plan (changed text in yellow highlights)

Chapter 7, test case matrix.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **NANC 400-1** SOA - Service Provider Personnel submit an Intra-Service Provider Create request specifying at least one but not all Optional Data elements (Alternative SPID, Voice URI, MMS URI, PoC URI, Presence URI) their SOA Supports- Success | X | X | X |  | X | ~~X~~ | X |  |

Update Xs. Cross out CMIP LSMS. Reinstate XML SOA.

Chapter 7, test case matrix. Remove row for 8.1.2.4.1.17 Activate intra-service provider ‘pending’ port of a single TN – no New Service Provider timestamp exists and before NPA-NXX effective date. – Error.

Chapter 8, test case 8.1.1.1.1.2, change "invalid attribute error" to "error". Similar changes to 8.1.1.1.1.3, 8.1.1.1.1.9, 8.1.1.1.2.2, 8.1.1.1.2.3, 8.1.1.1.2.9.

The NPAC SMS creates an M-CREATE reply in CMIP (or NXCR – NpaNxxCreateReply in XML) with an ~~invalid attribute~~ error and sends it to the SOA via the SOA Mechanized Interface.

Chapter 8, test case 8.1.2.1.1.30, change "Concurrence" to "Create".

The Final Concurrence Window timer expires for the TN and a T2 Timer Expiration notification in CMIP (VNFN – SvNewSpFinal~~Concurrence~~CreateWindowExpirationNotification in XML) is sent to the New Service Provider’s SOA), if they support the notification according to their NPAC Customer No New SP Concurrence Notification Indicator in their service provider profile on the NPAC SMS.

The newSPFinal ConcurrenceWindowExpiration notification in CMIP (VNFN – SvNewSpFinal~~Concurrence~~CreateWindowExpirationNotification in XML) is sent to the Old Service Provider’s SOA), if they support the notification according to their NPAC Customer No New SP Concurrence Notification Indicator in their service provider profile on the NPAC SMS. The subscription version will remain in ‘pending’ until the duration for the Pending SV Cancellation tunable on the NPAC SMS has passed.

Chapter 8, test case 8.1.2.4.1.17, delete Test Case.

Chapter 9, test case ILL 75-5, update pre-requisite 2 and 3, and step 2.

Issue the first create for an Inter-Service Provider Subscription Version using an NPA-NXX that has never been ported before, on behalf of the Old Service Provider and where the Service Provider Under Test is the New Service Provider, let the Initial and Final Concurrence timers expire (NPAC SMS issues objectCreation, subscriptionVersionNewNPA-NXX, subscriptionVersionNewSP-CreateRequest and subscriptionVersion~~StatusAttributeValueChange~~ ~~(cancel)~~NewSP-FinalCreateWindowExpiration (SV1)).

Issue an Immediate Disconnect for a Subscription Version where the Service Provider Under Test is the Donor Service Provider (NPAC SMS issues the subscriptionVersionDonorSP-CustomerDisconnectDate ~~and subscriptionVersionStatusAttributeValueChange(old)~~ notification~~s~~ (SV2)).

The NPAC SMS receives the M-ACTION Request from the SOA, and issues an M-ACTION Response to the SOA with the following notifications for the time range specified, including:

* objectCreation (SV1)
* subscriptionVersionNewNPA-NXX (SV1)
* subscriptionVersion~~StatusAttributeValueChange~~NewSP-FinalCreateWindowExpiration (~~cancel,~~ SV1)
* subscriptionVersionNewSP-CreateRequest(SV1)
* subscriptionVersionDonorSP-CustomerDisconnectDate (SV2)
* ~~subscriptionVersionStatusAttributeValueChange(SV2)~~
* subscriptionAuditDiscrepancyRpt
* subscriptionAuditResults
* objectDeletion (for the cancelled audit)
* ~~lnpNPAC-SMS-Operational-Information~~
* subscriptionVersionStatusAttributeValueChange(partial-failure, SV3, failed-SP-List)
* subscriptionVersionCancellationAcknowledgeRequest(SV4)
* subscriptionVersionStatusAttributeValueChange(cancel-pending, SV4)
* attributeValueChange (SV5 and SV6)
* subscriptionVersionStatusAttributeValueChange (conflict, SV5 and SV6)
* subscriptionVersionStatusAttributeValueChange (partial-failure, SV7 and SV8)

The NPAC SMS returns timer type, business hours, and WSMSC data, if the Service Provider supports that data.

Chapter 9, test case ILL 75-26, change Live Timestamp to Effective Date.

SOA – New Service Provider Personnel, using a range of TNs, modify Inter-Service Provider Subscription Versions specifying a due date that is equal to the NPA-NXX ~~Live Timestamp~~ Effective Date – Success

Verify that the ‘pending’ Subscription Versions to be modified exist on the NPAC SMS with a due date later than the current date and later than the NPA-NXX ~~Live Timestamp~~ Effective Date.

Using the SOA, New Service Provider personnel take action to modify the subscriptionNewSP-DueDate of Inter-Service Provider Subscription Versions for a range of TNs with a due date that is equal to the NPA-NXX ~~Live Timestamp~~ Effective Date.

Chapter 9, test case 48-5, update pre-requisite 5. Delete steps 10 and 12.

1. While SPID ‘A’, SPID ‘B’, and SPID ‘C’ do not have an association with the NPAC SMS, NPAC Personnel perform the following functions via the NPAC OP GUI:
* Issue an Old Service Provider Subscription Version Create (SV1) using an NPA-NXX which has never been ported before and where SPID ‘B’ is the Old Service Provider and SPID ‘A’ is the New Service Provider – let the timers expire.

(objectCreation for SV1)

(subscriptionVersionNewSP-Concurrence Request for SV1)

(subscriptionVersionNewSP-Final Concurrence Window Expiration for SV1)

~~(subscriptionVersionStatusAttributeValueChange setting SV1 to ‘cancelled’)~~

(subscriptionVersionNewNPA-NXX for SV1)

* Issue a Subscription Version Disconnect (SV2) where SPID ‘B’ is the Donor Service Provider and SPID ‘C’ is the Current Service Provider.

(subscriptionVersionDonorSPCustomerDisconnectDate for SV2)

(subscriptionVersionStatusAttributeValueChange setting SV2 to ‘old’)

* Issue an Activate for a pending Subscription Version (SV3) for which both the Old and New SP have concurred and Service Provider ‘B’ is the New Service Provider and Service Provider ‘C’ is the Old Service Provider.

(subscriptionVersionStatusAttributeValueChange setting SV3 to ‘active’)

* ~~Issue a Scheduled Downtime Notification.~~

~~(lnpNPAC-SMS-OperationalInformation)~~

* Issue a New Service Provider Subscription Version Create (SV4) where SPID ‘B’ is the New Service Provider and SPID ‘C’ is the Old Service Provider – let the timers expire.

(objectCreation for SV4)

(subscriptionVersionOldSP-Concurrence Request for SV4)

(subscriptionVersionOldSP-Final Concurrence Window Expiration for SV4)

~~SPID ‘B’ Service Provider Personnel perform a local query for the subscriptionVersionAttributeValueChange message for SV1.~~

~~SPID ‘A’ Service Provider Personnel perform a local query for the subscriptionVersionAttributeValueChange message for SV1.~~

Chapter 9, test case 214-6, update Priority to indicate conditional.

Chapter 10, test case 4.2.1, delete step 8.

~~NPAC Personnel verify that the ‘old’ Number Pool Block that was created as a result of the modification did not get broadcast.~~

Chapter 10, test case 4.2.4, delete pre-requisite 2.

~~Verify the Number Pool Block and 1K Block of Subscription Versions with LNP Type set to ‘POOL’ exist with a status of ‘active’ and an empty Failed SP List.~~

Chapter 10, test case 9.2, remove reference to non-EDR in SUT Priority.

Chapter 10, test case 9.4, add audit object creation after step 2. Update text for steps 8, 9. Delete step 10. Add new step for audit results notification.

After step 2:

NPAC

The NPAC SMS issues an M-EVENT-REPORT objectCreation (not available over the XML interface) to the Service Provider SOA that originated the Audit Request indicating the subscriptionAudit creation.

SP

The Service Provider SOA issues an M-EVENT-REPORT confirmation (not available over the XML interface) back to the NPAC SMS.

The NPAC SMS issues an M-~~SET~~DELETE Request numberPoolBlock in CMIP (or PBMD – NpbModifyDownload in XML) to the discrepant LSMS system.

The discrepant LSMS updates the Number Pool Block appropriately and issues an M- ~~SET~~DELETE Response in CMIP (or DNLR – DownloadReply in XML) back to the NPAC SMS.

The NPAC SMS issues an M-EVENT-REPORT subscriptionVersionStatusAttributeValueChange in CMIP (or VATN – SvAttributeValueChangeNotification in XML) to the Service Provider who owns the Subscription Version referred to in step ~~7~~6 to set the subscriptionVersionStatus to 'active' and update the subscriptionFailedSP-List.

The Current Service Provider SOA for the Subscription Version referred to in step ~~7~~6 issues an M-EVENT-REPORT Confirmation in CMIP (or NOTR – NotificationReply in XML) back to the NPAC SMS.

~~The NPAC SMS issues an M-EVENT-REPORT subscriptionVersionAttributeValueChange in CMIP (or VATN – SvAttributeValueChangeNotification in XML) to the Service Provider who owns the Subscription Version referred to in step 7 above to set the subscriptionVersionStatus to 'active' and update the subscriptionFailedSP-List.~~

After step 11:

NPAC

The NPAC SMS issues an M-EVENT-REPORT subscriptionAuditResults in CMIP (or ARSN – AuditResultsNotification in XML) to the Service Provider SOA that originated the Audit Request.

SP

The Service Provider SOA receives the M-EVENT-REPORT from the NPAC SMS and issues an M-EVENT-REPORT Confirmation in CMIP (or NOTR – NotificationReply in XML) back to the NPAC SMS.

Chapter 11, test case 2.32, delete pre-requisite 3.

~~Verify that the Old Service Provider is using LONG Port-Out Timers.~~

Chapter 11, test case 2.37, update text for pre-req 6b.

Modify the New SP Due Date and LRN for the first 20 consecutive TNs of the subscription versions created in step ‘a’ above.

Chapter 12, test case 169-4, update text for pre-req f.

f) Put simulated SPID LSMS in recovery. Use at least one simulator that is associated with the NPAC and is accepting downloads for this NPA-NXX. Verify that the Service Provider under test is accepting downloads for this NPA-NXX. Modify the Number Pool Block that was activated in step e above. Verify that the Number Pool Block has a status of ‘Sending’. (NPB group f\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_) During the test case retry timers will exhaust, and then the status of the NPB should be ‘~~Partial-Fail~~Active’.

Chapter 12, test case 187-1, change bullets to numbers (MS-Word indent). Similar change in 187-4.

1. While the LSMS is disconnected from the NPAC SMS, NPAC Personnel should perform the following functions:

1. Create at least one Service Provider.
2. Create an LRN.
3. Delete an LRN for a different Service Provider.
4. Create an NPA-NXX.
5. Delete an NPA-NXX for a different Service Provider.
6. Activate a new Number Pool Block.
7. DePool an existing Number Pool Block.
8. Create NPA-NXX-X Information for different Service Providers.
9. Modify NPA-NXX-X Information for different Service Providers.
10. Delete NPA-NXX-X Information for different Service Providers.
11. Create an Inter-SP Subscription Version for a Pooled TN.
12. Disconnect a Pooled Ported TN.
13. Create an Inter-SP, Port-To-Original Subscription Version for a Pooled Ported TN.
14. Create a Subscription Version with the NPA-NXX created above.
15. Issue an activate request for an Inter-Service Provider Subscription Version.
16. Issue an Activate request for a range of two Inter-Service Provider Subscription Versions, where the broadcast to the LSMSs goes to a ‘partial failure’ state.
17. Using an NPANXX with filters set for the LSMS under test, and using a simulator Activate 2 ‘pending’ SVs. Verify that these subscription versions have a status of ‘Sending’.
18. Put simulated SPID LSMS in recovery. Use at least one simulator that is associated with the NPAC and is accepting downloads for this NPA-NXX. Verify that the Service Provider under test is accepting downloads for this NPA-NXX. Activate an uncontaminated Number Pool Block on behalf of another Service Provider. Verify that the Pooled SVs and NPB have a status of ‘Sending’.

Verify that the following updates were sent:

1. Service Provider create(s) based on prerequisite data; If the Service Provider Type LSMS Indicator is set to TRUE, the SP Type is included.
2. 1 LRN create.
3. 1 LRN delete.
4. 1 NPA-NXX create.
5. 1 NPA-NXX delete.
6. 1 Number Pool Block activate.
7. 1 Number Pool Block depool.
8. 1 NPA-NXX-X create – if supported by the Service Provider LSMS.
9. 1 NPA-NXX-X modify – if supported by the Service Provider LSMS.
10. 1 NPA-NXX-X delete – if supported by the Service Provider LSMS.
11. 1 Pooled Ported TN disconnect.
12. 1 First port of NPA-NXX notification.
13. 1 Single subscription version activate.
14. 2 subscription versions that were activated.
15. 1 Number Pool Block activate.
16. 1 NPA-NXX create after recovery is complete
17. 1 Subscription Version activate after recovery is complete

Verify that the WSMSC, Optional Data elements and/or SV Type attributes are present if the Service Provider under test supports these attributes on their LSMS and based on how they were specified in the prerequisite subscription version and number pool block data.

Chapter 12, test case 187-2, update steps 7, 12. Similar change in 187-3.

The NPAC SMS receives the M-ACTION Request from the LSMS Service Provider.

1) If the Service Provider’s Local SMS Linked Replies Indicator is set to FALSE, NPAC issues a single M-ACTION Response lnpDownload messages back to the LSMS with the Subscription Version Data updates for:

* ~~If non-EDR LSMS, Pooled Subscription Versions associated with NPB group e~~
* ~~If non-EDR LSMS, Pooled Subscription Versions associated with NPB group f~~
* SV group j
* SV group k
* SV group l
* SV group n
* SV group o

2) If the Service Provider’s Local SMS Linked Replies Indicator is set to TRUE, NPAC issues multiple, linked M-ACTION replies, lnpDownload, followed by a non-linked, empty, normal response (indicating the end of the linked reply data) back to the LSMS ~~(with the ‘non-pooled’ Subscription Version Data updates to the LSMS and pooled and non-pooled Subscription Version Data updates to the LSMS)~~. This message shall be linked for groups of (50) objects – there should be at least 3 linked replies, if the Service Provider under test is and does not support Ranged Notifications, there will be at least 43 linked replies. If the service provider under test supports Ranged Notifications, there may be fewer than 43 linked replies based on the parameter setting.

NOTE: If the Service Provider LSMS supports WSMSC, Optional Data elements and/or SV Type, these attributes will be included in the downloads as appropriate.

Verify that the following updates were sent:

* LRN group a was created.
* LRN group b was deleted.
* NPA-NXX group c was activated.
* NPA-NXX group d was depooled.
* ~~On non-EDR LSMSs, Pooled Subscription Versions associated with NPB e were created.~~
* ~~On non-EDR LSMSs, Pooled Subscription Versions associated with NPB f were deleted.~~
* NPA-NXX-X (Dash X group g) was created – if supported by the Service Provider LSMS.
* NPA-NXX-X (Dash X group h) was modified – if supported by the Service Provider LSMS.
* NPA-NXX-X (Dash X group i) was deleted – if supported by the Service Provider LSMS.
* SV group j was created/activated.
* SV group k was disconnected.
* SV group l was created/activated.
* First port of NPA-NXX notification associated with SV group m was sent.
* SV group n was activated.
* SV group o was activated.
* 1 NPA-NXX create after recovery is complete
* SV3 was activated after recovery is complete.
* Verify that the WSMSC, Optional Data elements and/or SV Type attributes are present if the Service Provider under test supports these attributes on their LSMS and based on how they were specified in the prerequisite subscription version and number pool block data.

NPA-NXX group p, to verify the Effective Date was modified as indicated in the prerequisite data.

Chapter 12, test case 187-4, change bullets to numbers (MS-Word indent), remove step 7, update step 8, update steps 14.

1) While the SOA is disconnected from the NPAC SMS, NPAC Personnel should perform the following functions for data within the time range to be‘:

1. Create at least one Service Provider.
2. Create an LRN.
3. Delete an LRN for a different Service Provider.
4. Create an NPA-NXX.
5. Delete an NPA-NXX for a different Service Provider.
6. Create NPA-NXX-X Information for a different Service Provider~~s~~ (first port within the NPA-NXX).
7. Modify NPA-NXX-X Information for a different Service Provider~~s~~.
8. Delete NPA-NXX-X Information for a different Service Provider~~s~~.
9. Activate a Block on behalf of the Service Provider that is ‘down’ with SOA Origination TRUE. If the SOA under test supports SV Type and/or Optional Data elements include these attributes in the NPB.
10. Create a Subscription Version with the NPA-NXX created above on behalf of the Old Service Provider and where the Service Provider Under Test is the New Service Provider; let the Initial and Final Concurrence timers expire.
11. Issue an immediate disconnect for a subscription version where the Service Provider Under Test is the Donor Service Provider.
12. Issue a Cancel request for a pending Inter-Service Provider Subscription Version for which both service providers have concurred to the pending port, on behalf of the Service Provider Under Test, let the Cancellation Initial Concurrence Timer expire.
13. Issue a Create request for a range of two pending subscription versions that were initially created by the New Service Provider, on behalf of the Old Service Provider, where the Authorization Flag is set to “False” and provide a Cause Code.
14. Issue an activate request for an Inter-Service Provider Subscription Version on behalf of the Service Provider Under Test.
15. Issue an Activate request for a range of two Inter-Service Provider Subscription Versions where a broadcast to the LSMSs goes into a Partial Failure status.

2) While the SOA is in recovery, NPAC personnel should perform the following functions:

1. Create an NPA-NXX.
2. Activate a Subscription Version as the Service Provider Under Test.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ~~7.~~ | ~~NPAC~~ | ~~The NPAC SMS checks to see if the M-ACTION subscriptionVersionActivate can be sent to the SOA in recovery.~~ | ~~NPAC~~ | ~~The NPAC SMS does NOT issue the M-ACTION subscriptionVersionActivate to the SOA since the SOA is still in recovery.~~ |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 8. | NPAC | The NPAC SMS checks to see if the M-EVENT-REPORT ~~objectCreation~~StatusAttributeValueChange can be sent to the SOA in recovery. | NPAC | The NPAC SMS does NOT issue the M-EVENT-REPORT ~~objectCreation~~StatusAttributeValueChange to the SOA since the SOA is still in recovery. |

Verify that the following updates were made:

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

Chapter 12, test case 187-5, update pre-requisites, and steps 2, 3 and 6.

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 (change default FALSE to TRUE). If the SOA under test supports SV Type and/or Optional Data elements attributes include these in the number pool block. (NPB group a)

b) Create a range of 10 Subscription Versions on behalf of the Old Service Provider and where the Service Provider Under Test is the New Service Provider; let the Initial Concurrence timer expire. When you create, do this in two ranges, where the last half of the TNs in the range is the first range that you create. In a second request, create the first half of the TNs in the range. (SV group b2 and SV group b1)

~~c) Deleted.~~

c) Issue an immediate disconnect for 20 subscription versions where the Service Provider Under Test is the Donor Service Provider. (SV group ~~d~~c)

d) 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~~d)

e) 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~~e)

f) 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~~f \_\_\_\_\_\_\_\_\_\_\_\_\_\_).

g) Create 10 LRNs. (LRN group ~~h~~g)

h) Create 15 NPA-NXXs. (NPA-NXX group ~~i~~h)

i) Modify the NPA-NXX Effective Date for an NPA-NXX where the current date is less than the existing Effective Date and no pending-like SVs, NPA-NXX-Xs or NPBs exist for the respective NPA-NXX. (NPA-NXX group ~~j~~i)

j If the SUT’s, S-3.00 C, Attribute Value Change, For Mass Update of Active SVs and NPBs notification priority is set to a value other than NONE, issue a Mass Update for non-pooled Subscription Versions and NPBs/pooled Subscription Versions. (SV/NPB group ~~k~~j)

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~~g
* NPA-NXX group ~~i~~h
* Modified NPA-NXX (NPA-NXX group ~~j~~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.

The NPAC SMS receives the M-ACTION Request from the SOA.

1) If the Service Provider’s SOA Linked Replies Indicator is set to FALSE, NPAC issues a single, normal M-ACTION Response lnpDownload message back to the SOA with the Notification updates.

* Number Pool Block object Creation Notification for (NPB group a). If the SOA under test supports SV Type and/or Optional Data elements these attributes are included in the notification.
* Subscription Version ~~New SP Create Request~~ object Creation Notification or if the SOA supports ranges, Subscription Version Range ~~New SP-Create Request~~ object Creation for (SV group b)
* 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~~c)
* Subscription Version Status Attribute Value Change Notification for (SV group ~~e~~d)
* Subscription Version Status Attribute Value Change and Attribute Value Change or if the SOA supports ranges, Subscription Version Range Status Attribute Value Change and Range Attribute Value Change for (SV group ~~f~~e)
* 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~~f2 and SV group ~~g~~f1)

**NOTE:** If the SUT’s S-3.00 C Attribute Value Change for Mass Update of Active SVs and NPBs notification priority is set to a value other than NONE, they will receive M-EVENT-REPORT AttributeValueChange notifications for the modified attributes. This will be a subscriptionVersionAttributeValueChange for the non-pooled Subscription Versions and/or numberPoolBlockAttributeValueChange to the Current/Block Holder Service Provider *if* the numberPoolBlockSOA-OriginationIndicator is set to TRUE. (SV/NPB group ~~k~~j)

Verify that the notifications were received:

* Number Pool Block object Creation Notification for (NPB group a). If the SOA under test supports SV Type and/or Optional Data elements these attributes are included in the notification.
* Subscription Version ~~New SP Create Request~~ object Creation Notification or if the SOA supports ranges, Subscription Version Range ~~New SP Create Request~~ object Creation for (SV group b)
* 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~~c)
* Subscription Version Status Attribute Value Change Notification for (SV group ~~e~~d)
* Subscription Version Status Attribute Value Change and Attribute Value Change or if the SOA supports ranges, Subscription Version Range Status Attribute Value Change and Range Attribute Value Change for (SV group ~~f~~e)
* 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~~f2 and SV group ~~g~~f1)
* If the SUT’s S-3.00 C Attribute Value Change for Mass Update of Active SVs and NPBs notification priority is set to a value other than NONE, they will receive M-EVENT-REPORT AttributeValueChange notifications for the modified attributes. This will be a subscriptionVersionAttributeValueChange for the non-pooled Subscription Versions and/or numberPoolBlockAttributeValueChange to the Current/Block Holder Service Provider *if* the numberPoolBlockSOA-OriginationIndicator is set to TRUE. (SV/NPB group ~~k~~j)

Verify the following network data changes are reflected:

* LRN group ~~h~~g was created
* NPA-NXX group ~~i~~h was created
* NPA-NXX group ~~j~~i reflects the modified NPA-NXX Effective Date

Chapter 12, test case 187-6, update step 5.

~~Subscription Version Status Attribute Value Change~~Donor Disconnect Notification or if the SOA supports ranges, ~~Subscription Version Range Status Attribute Value Change~~ Range Donor Disconnect Notification for (SV group c)

Chapter 12, test case 319-6, update text for step 5.

On the LSMS verify:

1. The subset Subscription Versions ~~(both Pooled and non-Pooled)~~ within the Mass Update request who’s LATA ID for the respective NPA-NXX that did not match the LATA ID for the associated LRN attribute were not updated with the new DPC/SSN value(s).

2. The subset of Subscription Versions ~~(both Pooled and non-Pooled)~~ within the Mass Update request who’s LATA ID for the respective NPA-NXX did match the LATA ID for the associated LRN attribute were updated with the new DPC/SSN value(s).

3. ~~EDR LSMSs only,~~ the Number Pool Blocks within the Mass Update request who’s LATA ID for the respective NPA-NXX that did not match the LATA ID for the associated LRN attribute was not updated with the new DPC/SSN value(s).

4. ~~EDR LSMSs only,~~ the Number Pool Blocks within the Mass Update request who’s LATA ID for the respective NPA-NXX that did match the LATA ID for the associated LRN attribute was updated with the new DPC/SSN value(s).

Chapter 12, test case 354-2, update numbering and lettering, update text for step 12.

Prerequisite #2.

* + 1. While the SOA and LSMS are ‘dis-associated’ with the NPAC SMS, NPAC personnel perform the following functions:
	1. ~~Deleted.~~
	2. Create an NPA-NXX-X respective to NPA-NXX 1b on behalf of the Service Provider under test (NPA-NXX-X 1~~b~~a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_).
	3. Modify NPA-NXX-X respective to 1~~b~~a on behalf of the Service Provider under test, note the modified attributes.
	4. ~~Deleted.~~
	5. Create an NPA-NXX that is not yet open for porting (Effective date is in the future) on behalf of another Service Provider under test NPA-NXX 2~~e~~c \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
	6. Delete NPA-NXX 2 ~~e~~c that was just created above.
	7. Create a unique NPA-NXX that is not yet open for porting (Effective date is in the future) on behalf of another Service Provider, NPA-NXX 2 ~~g~~e \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Step #3.

Verify the following on the respective systems.

On the SOA verify:

* If the Service Provider’s SOA Network Data Management Indicator is set to TRUE,
	+ LRN 1a exists on the SOA.
	+ NPA-NXX 1b exists on the SOA.
	+ NPA-NXX 2~~e~~c does not exist on the SOA.
	+ NPA-NXX 2~~g~~e exists on the SOA.
* If the Service Provider’s SOA NPA-NXX-X Indicator is set to TRUE,
	+ NPA-NXX-X 1b exists on the SOA with the new, modified attributes (see step 2~~c~~b above).

On the LSMS verify

* If the Service Provider’s LSMS Network Data Management Indicator is set to TRUE,
	+ LRN 1a exists on the LSMS.
	+ NPA-NXX 1b exists on the LSMS .
	+ NPA-NXX 2~~e~~c does not exist on the LSMS.
	+ NPA-NXX 2~~g~~e exists on the LSMS.
* If the Service Provider’s LSMS NPA-NXX-X Indicator is set to TRUE,
	+ NPA-NXX-X 1b exists on the LSMS with the new, modified attributes (see step 2~~c~~b above).

Step #5.

Service Provider Personnel, using their SOA and LSMS, perform an NPAC query for the Network Data in the prerequisites:

On the SOA and LSMS query:

* If the Service Provider’s SOA/LSMS Network Data Management Indicator is set to TRUE,
	+ LRN 1a .
	+ NPA-NXX 1b.
	+ NPA-NXX 2~~e~~c.
	+ NPA-NXX 2~~g~~e.
* If the Service Provider’s SOA/LSMS NPA-NXX-X Indicator is set to TRUE,
	+ NPA-NXX-X 1b.

Verify the following on the respective systems.

On the SOA/LSMS verify:

* If the Service Provider’s SOA/LSMS Network Data Management Indicator is set to TRUE,
	+ LRN 1a exists.
	+ NPA-NXX 1b exists.
	+ NPA-NXX 2~~e~~c does not exist.
	+ NPA-NXX 2 ~~g~~e exists.
* If the Service Provider’s SOA/LSMS NPA-NXX-X Indicator is set to TRUE,
	+ NPA-NXX-X 1b exists with the new, modified attributes, see step 2~~c~~b above.

Create an NPA-NXX that is not yet open for porting (Effective date is in the future) on behalf of ~~another~~the Service Provider under test NPA-NXX 2e \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Chapter 13, test case 348-1, update text for pre-requisite.

Work with the Service Provider under test (not associated at time of notifications) to create porting scenarios that result in a subset of the following notifications:

Chapter 13, test case 351-2, update text for step 15.

Verify that the following updates were made:

* 1 Service Provider create; If the SOA Supports SPID Recovery is set to TRUE. The Service Provider create will include the SP Type if the Service Provider Type SOA Indicator is set to TRUE for the SP under test, and an SP Type was set for the Service Provider created in the prerequisites, then the SP Type will be included in the download information.
* 1 LRN create.
* 1 LRN delete.
* 1 NPA-NXX create.
* 1 NPA-NXX delete.
* The Effective Date for the NPA-NXX that was modified is updated.
* 1 NPA-NXX-X create – if supported by the Service Provider SOA.
* 1 NPA-NXX-X modify – if supported by the Service Provider SOA.
* 1 NPA-NXX-X delete – if supported by the Service Provider SOA.
* 1 numberPoolBlock-objectCreation including SV Type and/or Optional Data elements – if the SOA under test supports blocks and these attributes.
* objectCreation notification, T1 expiration notification, and T2 expiration notification and for the SV created where SP under test is NSP.
* ~~statusAttributeValueChange~~ donorDisconnect notification for the immediate disconnect initiated during prerequisite steps.
* statusAttributeValueChange notification, T1 cancellation notification for the SV canceled during prerequisite steps.
* attributeValueChange notification, statusAttributeValueChange notification (or range notification depending on whether the SP under test supports range notifications) for the SV range created by the OSP in response to a NSP (SUT) create during prerequisite steps.
* statusAttributeValueChange for the SV activate indicated in the prerequisite steps.
* statusAttributeValueChange (or range notification depending on whether the SP under test supports range notifications) for the range of two Inter-SP SVs where the status indicates PF.
* attributeValueChange notification (or range notification depending on whether the SP under test supports range notifications) for the SV range mass updated by NPAC Personnel during prerequisite steps.

NOTE: If the SOA under test supports SV Type and/or Optional Data elements these attributes are included in the numberPoolBlock-objectCreation and subscriptionVersion-objectCreation notifications recovered.

NOTE: If the Service Provider under test supports Medium Timer Indicator, and the respective prerequisite SV create requests included the MTI indicator; this attribute will be included in the subscriptionVersion-objectCreation (including Range) notifications.

* 1 First port of NPA-NXX notification.
* 1 NPA-NXX create after recovery is complete

1 Subscription Version activate after recovery is complete

Chapter 13, test case 351-4, update text for pre-requisites, and step 18.

4. While the SOA is disconnected from the NPAC SMS, NPAC personnel should perform the following functions for data to be resync’d:

* Create a new Service Provider.
* Create an LRN.
* Delete an LRN.
* Create an NPA-NXX.
* Delete an NPA-NXX.
* Create NPA-NXX-X Information for different Service Providers.
* Modify NPA-NXX-X Information for different Service Providers.
* Delete NPA-NXX-X Information for different Service Providers.
* Activate 10 Blocks on behalf of the Service Provider that is ‘down’ with SOA Origination TRUE. If the SOA under test supports SV Type and/or Optional Data elements include these attributes in the NPBs you are activating.
* Create 20 Subscription Versions with the NPA-NXX created above on behalf of the Old Service Provider and where the Service Provider Under Test is the New Service Provider; let the Initial and Final Concurrence timers expire.
* Issue an immediate disconnect for 20 Subscription Versions where the Service Provider Under Test is the Donor Service Provider.
* Issue a Cancel request for 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 the Cancellation Initial Concurrence Timer expire.
* Issue a Create request for a range of 10 Pending Subscription Versions that were initially created by the New Service Provider, on behalf of the Old Service Provider, where the Authorization Flag is set to “False” and provide a Cause Code.
* Issue an activate request for 20 Inter-Service Provider Subscription Versions on behalf of the Service Provider Under Test.
* Issue an Activate request for a range of two Inter-Service Provider Subscription Versions where a broadcast to the LSMSs goes into a Partial Failure status.

Verify that the following updates were made:

* 1 Service Provider create; If the Service Provider Type SOA Indicator is set to TRUE for the SP under test, and an SP Type was set for the Service Provider created in the prerequisites, then the SP Type will be included in the download information.
* 1 LRN create.
* 1 LRN delete.
* 1 NPA-NXX create.
* 1 NPA-NXX delete.
* 1 NPA-NXX-X create – if supported by the Service Provider SOA.
* 1 NPA-NXX-X modify – if supported by the Service Provider SOA.
* 1 NPA-NXX-X delete – if supported by the Service Provider SOA.
* numberPoolBlock-objectCreation notifications for the 10 blocks created on behalf of the Service Provider under test including SV Type and/or Optional Data elements – if the SOA under test supports blocks and these attributes.
* objectCreation notifications for the 20 Subscription Versions created on behalf of the New Service Provider under test.
* ~~statusAttributeValueChange~~ donorDisconnect notifications for the 20 Subscription Versions immediately disconnected on behalf of the Service Provider under test.
* statusAttributeValueChange notifications for the 10 Subscription Versions canceled during prerequisite steps.
* attributeValueChange notifications, statusAttributeValueChange notifications for the 10 Subscription Versions concurred to by the OSP in response to the New Service Provider under test creates (prior to prerequisites).
* statusAttributeValueChange for the 20 Subscription Versions activates on behalf of the Service Provider under test indicated in the prerequisite steps.
* statusAttributeValueChange (or range notification depending on whether the Service Provider under test supports range notifications) for the range of two Inter-SP Subscription Versions activated where the status goes to PF.

 NOTE: If the SOA under test supports SV Type and/or Optional Data elements and this information was specified in the prerequisite data this information will be included in the numberPoolBlock-objectCreation and subscriptionVersion-objectCreation notifications.

NOTE: If the SOA under test supports Medium Timer Indicator this attributes will be included in the subscriptionVersion-objectCreation notifications.

* 1 First port of NPA-NXX notification.
* 1 NPA-NXX create after recovery is complete

1 Subscription Version activate after recovery is complete

Chapter 14, test case 441-3, update text for pre-requisite.

Verify a Pending SV exists where the SUT has already issued the New Service Provider create request. The NewSPMediumTimerIndicator should be set to ~~TRUE~~FALSE, 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.

Chapter 15, test case 355-4, update text for step x.

Change from SOA to LSMS.

Chapter 16, test case Assoc Data-12, remove reference to “SOA” in several places.

To verify that the ~~SOA/~~LSMS aborts an association when it receives a get request from the NPAC SMS, which contains an access control field with an invalid CMIP Departure Time. (ITP name: SEC.SOA.INV.GET.INVT and SEC.LSMS.INV.GET.INVT)

An association is established between the ~~SOA/~~LSMS and NPAC SMS.

~~SOA/~~LSMS accepts the request.

~~SOA/~~LSMS detects the invalid CMIP Departure Time.

~~SOA/~~LSMS aborts association with no reason provided.