NPAC SMS/Vendor Certification and Regression Test Plan –

For New Vendors Certification and Existing Vendors Regression Testing Starting with NPAC Release 5.1

Chapter 18

**Releases included in this document:**

February 22, 2022

Release 5.1

February 06, 2023

Release 5.1.1

February 04, 2024

Release 5.2

February 2, 2025

Release 5.2.1

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# Vendor Turn Up Test Scenarios starting with NPAC Release 5.1.

Section 18 contains all test cases written for Turn Up testing starting with Release 5.1 of the NPAC software.

The adoption of Change Order 554 (XML LSMS Query Recovery) introduces a new concept called “suspend mode,” which causes the NPAC SMS to keep or queue new messages generated for an LSMS. While the NPAC SMS queues these messages for an LSMS, the LSMS can query the NPAC SMS for objects (Portable NPA-NXX, NPA-NXX-X, LRN, Subscription Version, Number Pool Block) that were missed during a period when the download indicators for the LSMS were turned off at the NPAC SMS. This allows for more efficient recovery by the LSMS, as the LSMS is able to process the queries and query responses without simultaneously processing new download request messages from the NPAC SMS.

This functionality would only need to be invoked when an LSMS has been unavailable for a period of time and the NPAC SMS operations staff determines that the download indicators for the LSMS need to be turned off in order to mitigate impacts to other users. It is anticipated that this is a rare occurrence, certainly not daily or even weekly, based on historical data.

The adoption of Change Order 556 (New SV Download Reason) provides data on the reason a ported TN is being disconnected from the NPAC. With this change order, new NPAC Service Provider support tunables will be added, and a new “delete-pto” Download Reason will be added. The new Download Reason would indicate that the TN is still working, but is returning to the owner, and would revert to default routing. This functionality would only be needed for XML LSMSs and XML SOAs that desire to receive the new Download Reason. This change is applicable to the XML interface, but not the CMIP interface.

Change Order 556 adds the following:

* A new SPID tunable, NPAC Customer XML LSMS Delete PTO Indicator, Boolean, to indicate whether or not this Service Provider (XML LSMS) supports the delete-pto Download Reason in a download, an SV Query Reply, and an SV BDD file. This will allow all XML LSMSs to maintain backwards compatibility, and only XML LSMSs that choose to implement this new feature will be affected. If an XML LSMS does NOT support this new feature, then the existing Download Reason of “delete1” will continue to be sent for both still-working TNs (PTO) and disconnected-service TNs.
* A new SPID tunable, NPAC Customer XML SOA Delete PTO Indicator, Boolean, to indicate whether or not this Service Provider (XML SOA) supports the delete-pto Download Reason on an SV Query Reply and an SV BDD file. This will allow all XML SOAs to maintain backwards compatibility, and only XML SOAs that choose to implement this new feature will be affected. If an XML SOA does NOT support this new feature, then the existing Download Reason of “delete1" will continue to be sent for SV Query Replies.

Change Order 565 introduces a new field (Boolean) to the SV Query Reply indicating, for an inter-Service Provider (LSPP) port, that either:

1. the Final Concurrence Window (T2 timer) for an SV has expired

OR

1. the Old Service Provider has explicitly concurred with a port, i.e., the Old SP Authorization on the Subscription Version was set by the Old SP as true.

The value of the field on the SV Query Reply will be set as follows:

* If T2 timer has expired or the Old SP has concurred with the port, the value will be TRUE.
* If T2 has not yet expired and the Old SP has not concurred, the value will be FALSE.

This feature is applicable to the SOA XML interface and does not apply to the LSMS XML interface and SOA/LSMS CMIP interfaces.

To allow all SOAs to maintain backwards compatibility, and only affect SOAs that choose to implement this new feature, this change order adds a new SPIDable, NPAC Customer XML SOA SV Concurrence Indicator, Boolean, to indicate whether or not the Service Provider’s XML SOA supports receiving the SV Concurrence field. If an XML SOA does not support this new feature, then the new field will not appear in the SV Query Reply.

## CO 554 – XML LSMS Query Recovery – Optional Test Cases for Suspend Mode Feature

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| --- | --- | --- | --- | --- | --- |
| **A.** | **TEST IDENTITY** |  | | | |
|  | **Test Case Number:** | **CO 554-1** | SUT Priority: | **SOA** | N/A | |
| **LSMS** | Conditional | |
|  | **Objective:** | LSMS –Service Provider personnel submit a query request for service provider, network data, number pool block data, and subscription data while the LSMS is in Suspend Mode – Success | | | |
|  |  |  | | | |
| **B.** | **REFERENCES** |  | | | |
|  | **Change Order Revision Number:** | V2 | Change Order Number(s): | CO 554 | | |
|  | **FRS Version Number:** | R5.1 | **Relevant Requirement(s):** | RR6-264 through RR6-276 | | |
|  | **IIS Version Number:** | R5.1 | **Relevant Flow(s):** |  | | |
|  |  |  | | | |
| **C.** | **PREREQUISITE** |  | | | |
|  | **Prerequisite Test Cases:** |  | | | |

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|  | **Prerequisite NPAC Setup:** | | 1. Service Provider LSMS XML Supports Suspend Mode Indicator must be set to TRUE.  2. SubscriptionVersion/NPB Download Data and Network Data download indicators are turned OFF.  3. Ensure that there are no existing queued messages to be sent to the LSMS.  4. NPAC personnel perform the following functions:  a) Create 5 LRNs. (LRN group a)  b) Delete 5 LRNs. (LRN group b)  c) Create 5 NPA-NXXs. (NPA-NXX group c)  d) Delete 5 NPA-NXXs. (NPA-NXX group d)  e) Create an NPA-NXX-X. (Dash X group e)  f) Modify an NPA-NXX-X. (Dash X group f)  g) Delete an NPA-NXX-X. (Dash X group g)  h) Activate 5 new Blocks. If the LSMS under test supports SV Type and/or Optional Data elements specify these attributes with the Number Pool Block. (NPB group h)  i) Modify 5 existing Blocks (NPB group i)  j) DePool 5 existing Blocks. (NPB group j)  k) Activate 5 Inter-SP Subscription Versions for a Pooled TN. (SV group k)  l) Disconnect 5 Pooled Ported TNs. (SV group l)  m) Activate 5 Inter-SP, Port-To-Original Subscription Versions for a Pooled Ported TN. (SV group m)  n) Issue an activate request for a range of 5 Inter-Service Provider Subscription Versions. (SV group n)  o) Activate 5 Intra-SP Subscription Versions (SV group o)  p) Modify 5 Intra-SP Subscription Versions for an existing TN (SV group p)  q) Create a new service provider. (service provider group q)  r) Delete an existing service provider. (service provider group r)  s) 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 s) | | | | |
|  | **Prerequisite SP Setup:** | |  | | | | |
|  |  | |  | | | | |
| **D.** | **TEST STEPS and EXPECTED RESULTS** | | | | |
| **Row #** | **NPAC or SP** | **Test Step** | | **NPAC or SP** | **Expected Result** | |
| 1. | NPAC | NPAC Personnel turns ON Suspend Mode for the LSMS. | | NPAC | LSMS is set in Suspend Mode. | |
| 2. | NPAC | NPAC Personnel turns ON SubscriptionVersion/NPB Download Data and Network Data download indicators | | NPAC | LSMS SubscriptionVersion/NPB Download Data and Network Data download indicators are turned back ON | |
| 3. | SP | The LSMS issues an SNQQ – SpidAndNetworkDataQueryRequest message to the NPAC SMS to query for customer objects created, modified, or deleted, populating the start activity timestamp with when the Download indicators are turned OFF and the end activity timestamp parameter with when the Download indicators are turned ON. | | NPAC | The NPAC SMS responds with SNQR – SpidAndNetworkDataQueryReply that provides all the customer objects requested by the query | |
| 4. | SP | The LSMS issues an SNQQ – SpidAndNetworkDataQueryRequest message to the NPAC SMS to query for portable NPA-NXX objects created, modified, or deleted, populating the start activity timestamp with when the Download indicators are turned OFF and the end activity timestamp parameter with when the Download indicators are turned ON. | | NPAC | The NPAC SMS responds with SNQR – SpidAndNetworkDataQueryReply that provides all the portable NPA-NXX objects requested by the query | |
| 5. | SP | The LSMS issues an SNQQ – SpidAndNetworkDataQueryRequest message to the NPAC SMS to query for LRN objects created or deleted, populating the start activity timestamp with when the Download indicators are turned OFF and the end activity timestamp parameter with when the Download indicators are turned ON. | | NPAC | The NPAC SMS responds with SNQR – SpidAndNetworkDataQueryReply that provides all the LRN objects requested by the query | |
| 6. | SP | The LSMS issues an SNQQ – SpidAndNetworkDataQueryRequest message to the NPAC SMS to query for NPA-NXX-X objects created, modified, or deleted, populating the start activity timestamp with when the Download indicators are turned OFF and the end activity timestamp parameter with when the Download indicators are turned ON. | | NPAC | The NPAC SMS responds with SNQR – SpidAndNetworkDataQueryReply that provides all the NPA-NXX-X objects requested by the query | |
| 7. | SP | The LSMS issues an SVQQ – SvQueryRequest message to the NPAC SMS to query for Subscription Version objects that were created, modified or deleted, populating the start broadcast timestamp with when the Download indicators are turned OFF and the end broadcast timestamp parameter with when the Download indicators are turned ON. | | NPAC | The NPAC SMS responds with SVQR – SvQueryReply that provides all the Subscription Version objects requested by the query | |
| 8. | SP | The LSMS issues a PBQQ – NpbQueryRequest message to the NPAC SMS to query for Number Pool Block objects that were created, modified or deleted, populating the start broadcast timestamp with when the Download indicators are turned OFF and the end broadcast timestamp parameter with when the Download indicators are turned ON. | | NPAC | The NPAC SMS responds with PBQR – NpbQueryReply that provides all the Number Pool Block objects requested by the query | |
| 9. Optional | SP | The LSMS issues an SMEQ – SuspendModeEndRequest to the NPAC SMS | | NPAC | The NPAC SMS removes the Suspend Mode status for the LSMS and responds with an SMER – SuspendModeEndReply | |
| 10. Conditional | NPAC | If Step 9 is not executed, NPAC Personnel submit Suspend mode end request from the NPAC GUI | | NPAC | The NPAC SMS removes the Suspend Mode status for the LSMS | |
| 11. Optional | SP | Service Provider personnel, using the LSMS, perform a local query for the data updated in this test case. | | SP | Verify that the following updates were sent:   * + LRN group a was created.   + LRN group b was deleted.   + NPA-NXX group c was created.   + NPA-NXX group d was deleted.   + NPA-NXX-X (Dash X group e) was created – if supported by the Service Provider LSMS.   + NPA-NXX-X (Dash X group f) was modified – if supported by the Service Provider LSMS.   + NPA-NXX-X (Dash X group g) was deleted – if supported by the Service Provider LSMS.   + NPB group h was created. If the LSMS supports SV Type and/or Optional Data elements, these attributes are included.   + NPB group i was modified.   + NPB group j was deleted.   + SV group k was created.   + SV group l was deleted.   + SV group m was deleted.   + SV group n was created.   + SV group o was created.   + SV group p was modified.   + Service Provider group q was created.   + Service Provider group r was deleted.   + NPA-NXX group s, to verify the Effective Date was modified as indicated in the prerequisite data. | |
| 12. | NPAC | NPAC personnel perform a Full audit for the Subscription Versions and Number Pool Blocks that were updated during this test case. | | NPAC | Using the Audit Results Log, verify that there were no updates made. If any updates were made as a result of running this audit, this test case fails. | |
| **E.** | **Pass/Fail Analysis, CO 554-1** | | | | |
| Pass | Fail | NPAC personnel performed the test case as written. | | | | |
| Pass | Fail | Service Provider personnel performed the test case as written. | | | | |

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| **A.** | **TEST IDENTITY** |  | | | |
|  | **Test Case Number:** | **CO 554-2** | SUT Priority: | **SOA** | N/A | |
| **LSMS** | Conditional | |
|  | **Objective:** | LSMS – Service Provider personnel submit a query request for service provider, network data, number pool block data, and subscription data while the LSMS is in Suspend Mode. NPAC returns results\_too\_large error when the record limit system tunable is exceeded. LSMS retries the query parameter values to reduce the scope of the query and submit multiple new requests to retrieve all data – Success | | | |
|  |  |  | | | |
| **B.** | **REFERENCES** |  | | | |
|  | **Change Order Revision Number:** | V2 | Change Order Number(s): | CO 554 | | |
|  | **FRS Version Number:** | R5.1 | **Relevant Requirement(s):** | RR6-264 through RR6-276 | | |
|  | **IIS Version Number:** | R5.1 | **Relevant Flow(s):** |  | | |
|  |  |  | | | |
| **C.** | **PREREQUISITE** |  | | | |
|  | **Prerequisite Test Cases:** |  | | | |

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| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Prerequisite NPAC Setup:** | | 1. Service Provider LSMS XML Supports Suspend Mode Indicator must be set to TRUE.  2. Max Query Reply Byte Size system tunable should be set to a value less than the amount of prerequisite data.  3. SubscriptionVersion/NPB Download Data and Network Data download indicators are turned OFF.  4. Ensure that there are no existing queued messages to be sent to the LSMS.  5. NPAC personnel perform the following functions:  a) Create 10 LRNs. (LRN group a)  b) Delete 5 LRNs. (LRN group b)  c) Create 10 NPA-NXXs. (NPA-NXX group c)  d) Delete 5 NPA-NXXs. (NPA-NXX group d)  e) Create 5 NPA-NXX-X. (Dash X group e)  f) Modify an NPA-NXX-X. (Dash X group f)  g) Delete 5 NPA-NXX-X. (Dash X group g)  h) Activate 10 new Blocks. If the LSMS under test supports SV Type and/or Optional Data elements specify these attributes with the Number Pool Block. (NPB group h)  i) Modify 5 existing Blocks. (NPB group i)  j) DePool 5 existing Blocks. (NPB group j)  k) Activate 10 Inter-SP Subscription Versions for a Pooled TN. (SV group k)  l) Disconnect 5 Pooled Ported TNs. (SV group l)  m) Activate 5 Inter-SP, Port-To-Original Subscription Versions for a Pooled Ported TN. (SV group m)  n) Issue an activate request for a range of 10 Inter-Service Provider Subscription Versions. (SV group n).  o) Activate 10 Intra-SP Subscription Versions. (SV group o)  p) Modify 20 Inter-SP Subscription Versions for an existing TN. (SV group p)  q) 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 q) | | | | |
|  | **Prerequisite SP Setup:** | |  | | | | |
|  |  | |  | | | | |
| **D.** | **TEST STEPS and EXPECTED RESULTS** | | | | |
| **Row #** | **NPAC or SP** | **Test Step** | | **NPAC or SP** | **Expected Result** | |
| 1. | NPAC | NPAC Personnel turns ON Suspend Mode for the LSMS. | | NPAC | LSMS is set in Suspend Mode. | |
| 2. | NPAC | NPAC Personnel turns ON SubscriptionVersion/NPB Download Data and Network Data download indicators | | NPAC | LSMS SubscriptionVersion/NPB Download Data and Network Data download indicators are turned back ON | |
| 3. | SP | The LSMS issues an SNQQ – SpidAndNetworkDataQueryRequest message to the NPAC SMS to query for customer objects created, modified, or deleted, populating the start activity timestamp with when the Download indicators are turned OFF and the end activity timestamp parameter with when the Download indicators are turned ON. | | NPAC | The NPAC SMS responds with SNQR – SpidAndNetworkDataQueryReply with data not\_found return code | |
| 4. | SP | The LSMS issues an SNQQ – SpidAndNetworkDataQueryRequest message to the NPAC SMS to query for portable NPA-NXX objects created, modified, or deleted, populating the start activity timestamp with when the Download indicators are turned OFF and the end activity timestamp parameter with when the Download indicators are turned ON. | | NPAC | The NPAC SMS responds with SNQR – SpidAndNetworkDataQueryReply with results\_too\_large return code | |
| 5. | SP | The LSMS issues multiple SNQQ – SpidAndNetworkDataQueryRequest messages to the NPAC SMS to query for portable NPA-NXX objects with reduced activity timestamp range | | NPAC | The NPAC SMS responds with SNQR – SpidAndNetworkDataQueryReply that provides all the portable NPA-NXX objects requested by the queries | |
| 6. | SP | The LSMS issues an SNQQ – SpidAndNetworkDataQueryRequest message to the NPAC SMS to query for LRN objects created or deleted, populating the start activity timestamp with when the Download indicators are turned OFF and the end activity timestamp parameter with when the Download indicators are turned ON. | | NPAC | The NPAC SMS responds with SNQR – SpidAndNetworkDataQueryReply with results\_too\_large return code | |
| 7. | SP | The LSMS issues multiple SNQQ – SpidAndNetworkDataQueryRequest messages to the NPAC SMS to query for LRN objects with reduced activity timestamp range. | | NPAC | The NPAC SMS responds with SNQR – SpidAndNetworkDataQueryReply that provides all the LRN objects requested by the queries | |
| 8. | SP | The LSMS issues an SNQQ – SpidAndNetworkDataQueryRequest message to the NPAC SMS to query for NPA-NXX-X objects created, modified, or deleted, populating the start activity timestamp with when the Download indicators are turned OFF and the end activity timestamp parameter with when the Download indicators are turned ON. | | NPAC | The NPAC SMS responds with SNQR – SpidAndNetworkDataQueryReply with results\_too\_large return code | |
| 9. | SP | The LSMS issues multiple SNQQ – SpidAndNetworkDataQueryRequest messages to the NPAC SMS to query for NPA-NXX-X objects with reduced activity timestamp range | | NPAC | The NPAC SMS responds with SNQR – SpidAndNetworkDataQueryReply that provides all the NPA-NXX-X objects requested by the queries | |
| 10. | SP | The LSMS issues an SVQQ – SvQueryRequest message to the NPAC SMS to query for Subscription Version objects that were created, modified or deleted, populating the start broadcast timestamp with when the Download indicators are turned OFF and the end broadcast timestamp parameter with when the Download indicators are turned ON. | | NPAC | The NPAC SMS responds with SVQR – SvQueryReply with results\_too\_large return code | |
| 11. | SP | The LSMS issues multiple SVQQ – SvQueryRequest messages to the NPAC SMS to query for Subscription Version objects with reduced broadcast timestamp range | | NPAC | The NPAC SMS responds with SVQR – SvQueryReply that provides all the Subscription Version objects requested by the queries | |
| 12. | SP | The LSMS issues a PBQQ – NpbQueryRequest message to the NPAC SMS to query for Number Pool Block objects that were created, modified or deleted, populating the start broadcast timestamp with when the Download indicators are turned OFF and the end broadcast timestamp parameter with when the Download indicators are turned ON. | | NPAC | The NPAC SMS responds with PBQR – NpbQueryReply with results\_too\_large return code | |
| 13. | SP | The LSMS issues multiple PBQQ – NpbQueryRequest messages to the NPAC SMS to query for Number Pool Block objects with reduced broadcast timestamp range. | | NPAC | The NPAC SMS responds with PBQR – NpbQueryReply that provides all the Number Pool Block objects requested by the queries | |
| 14. Optional | SP | The LSMS issues an SMEQ – SuspendModeEndRequest to the NPAC SMS (Optional) | | NPAC | The NPAC SMS removes the Suspend Mode status for the LSMS and responds with an SMER – SuspendModeEndReply | |
| 15. Conditional | NPAC | If Step 14 is not executed, NPAC Personnel submit Suspend mode end request from the NPAC GUI | | NPAC | The NPAC SMS removes the Suspend Mode status for the LSMS | |
| 16. Optional | SP | Service Provider personnel, using the LSMS, perform a local query for the data updated in this test case. | | SP | Verify that the following updates were sent:   * LRN group a was created. * LRN group b was deleted. * NPA-NXX group c was created. * NPA-NXX group d was deleted. * NPA-NXX-X (Dash X group e) was created – if supported by the Service Provider LSMS. * NPA-NXX-X (Dash X group f) was modified – if supported by the Service Provider LSMS. * NPA-NXX-X (Dash X group g) was deleted – if supported by the Service Provider LSMS. * NPB group h was created. If the LSMS supports SV Type and/or Optional Data elements, these attributes are included. * NPB group i was modified. * NPB group j was deleted. * SV group k was created. * SV group l was deleted. * SV group m was deleted. * SV group n was created. * SV group o was created. * SV group p was modified. * NPA-NXX group q, to verify the Effective Date was modified as indicated in the prerequisite data. | |
| 17. | NPAC | NPAC personnel perform a Full audit for the Subscription Versions and Number Pool Blocks that were updated during this test case. | | NPAC | Using the Audit Results Log, verify that there were no updates made. If any updates were made as a result of running this audit, this test case fails. | |
| **E.** | **Pass/Fail Analysis, CO 554-2** | | | | |
| Pass | Fail | NPAC personnel performed the test case as written. | | | | |
| Pass | Fail | Service Provider personnel performed the test case as written. | | | | |

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| **A.** | **TEST IDENTITY** |  | | | |
|  | **Test Case Number:** | **CO 554-3** | SUT Priority: | **SOA** | N/A | |
| **LSMS** | Conditional | |
|  | **Objective:** | LSMS – Service Provider personnel submit a query request for subscription data while the LSMS is in Suspend Mode. NPAC returns results\_too\_large error or indicates that there are more TNs to be returned when the Maximum Subscription Query system tunable is exceeded. LSMS retries the query to reduce the scope of the query or LSMS performs subsequent queries to retrieve additional SV records. – Success | | | |
|  |  |  | | | |
| **B.** | **REFERENCES** |  | | | |
|  | **Change Order Revision Number:** | V2 | Change Order Number(s): | CO 554 | | |
|  | **FRS Version Number:** | R5.1 | **Relevant Requirement(s):** | RR6-264 through RR6-276 | | |
|  | **IIS Version Number:** | R5.1 | **Relevant Flow(s):** |  | | |
|  |  |  | | | |
| **C.** | **PREREQUISITE** |  | | | |
|  | **Prerequisite Test Cases:** |  | | | |

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| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Prerequisite NPAC Setup:** | | 1. Service Provider LSMS XML Supports Suspend Mode Indicator must be set to TRUE.  2. Maximum Subscription Query Tunable should be set to the default value.  3. SubscriptionVersion/NPB Download Data and Network Data download indicators are turned OFF.  4. Ensure that there are no existing queued messages to be sent to the LSMS.  5. NPAC personnel perform the following functions:  a) Activate 25 Inter-SP Subscription Versions for a Pooled TN. (SV group a)  b) Disconnect 10 Pooled Ported TNs. (SV group b)  c) Activate 10 Inter-SP, Port-To-Original Subscription Versions for a Pooled Ported TN. (SV group c)  d) Activate 25 Intra-SP Subscription Versions. (SV group d)  e) Issue an activate request for a range of 10 Inter-Service Provider Subscription Versions. (SV group e).  f) Modify 25 Inter-SP Subscription Versions for an existing TN (SV group f) | | | | |
|  | **Prerequisite SP Setup:** | |  | | | | |
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| **D.** | **TEST STEPS and EXPECTED RESULTS** | | | | |
| **Row #** | **NPAC or SP** | **Test Step** | | **NPAC or SP** | **Expected Result** | |
| 1. | NPAC | NPAC Personnel turns ON Suspend Mode for the LSMS. | | NPAC | LSMS is set in Suspend Mode. | |
| 2. | NPAC | NPAC Personnel turns ON SubscriptionVersion/NPB Download Data and Network Data download indicators | | NPAC | LSMS SubscriptionVersion/NPB Download Data and Network Data download indicators are turned back ON | |
| 3. | SP | The LSMS issues an SNQQ – SpidAndNetworkDataQueryRequest message to the NPAC SMS to query for customer objects created, modified, or deleted, populating the start activity timestamp with when the Download indicators are turned OFF and the end activity timestamp parameter with when the Download indicators are turned ON. | | NPAC | The NPAC SMS responds with SNQR – SpidAndNetworkDataQueryReply with data not\_found return code | |
| 4. | SP | The LSMS issues an SNQQ – SpidAndNetworkDataQueryRequest message to the NPAC SMS to query for portable NPA-NXX objects created, modified, or deleted, populating the start activity timestamp with when the Download indicators are turned OFF and the end activity timestamp parameter with when the Download indicators are turned ON. | | NPAC | The NPAC SMS responds with SNQR – SpidAndNetworkDataQueryReply with data not\_found return code | |
| 5. | SP | The LSMS issues an SNQQ – SpidAndNetworkDataQueryRequest message to the NPAC SMS to query for LRN objects created or deleted, populating the start activity timestamp with when the Download indicators are turned OFF and the end activity timestamp parameter with when the Download indicators are turned ON. | | NPAC | The NPAC SMS responds with SNQR – SpidAndNetworkDataQueryReply with data not\_found return code | |
| 6. | SP | The LSMS issues an SNQQ – SpidAndNetworkDataQueryRequest message to the NPAC SMS to query for NPA-NXX-X objects created, modified, or deleted, populating the start activity timestamp with when the Download indicators are turned OFF and the end activity timestamp parameter with when the Download indicators are turned ON. | | NPAC | The NPAC SMS responds with SNQR – SpidAndNetworkDataQueryReply with data not\_found return code | |
| 7. | SP | The LSMS issues an SVQQ – SvQueryRequest message to the NPAC SMS to query for Subscription Version objects that were created, modified or deleted, populating the start broadcast timestamp with when the Download indicators are turned OFF and the end broadcast timestamp parameter with when the Download indicators are turned ON. | | NPAC | For Service Providers with ‘LSMS Supports Enhanced Subscription Version Query’ parameter set to TRUE, NPAC SMS responds with SVQR – SvQueryReply with the Subscription Version objects up to the tunable limit and provide the remaining count of SVs.  For Service Providers with ‘LSMS Supports Enhanced Subscription Version Query’ parameter set to FALSE, NPAC SMS responds with SVQR – SvQueryReply with results\_too\_large return code | |
| 8. | SP | For Service Providers with ‘LSMS Supports Enhanced Subscription Version Query’ parameter set to TRUE, the LSMS issues SVQQ – SvQueryRequest messages to the NPAC SMS to query for the remaining count of SVs.  For Service Providers with ‘LSMS Supports Enhanced Subscription Version Query’ parameter set to FALSE, the LSMS issues multiple SVQQ – SvQueryRequest messages to the NPAC SMS to query for Subscription Version objects with reduced broadcast timestamp range | | NPAC | The NPAC SMS responds with SVQR – SvQueryReply that provides all the Subscription Version objects requested by the queries | |
| 9. | SP | The LSMS issues a PBQQ – NpbQueryRequest message to the NPAC SMS to query for Number Pool Block objects that were created, modified or deleted, populating the start broadcast timestamp with when the Download indicators are turned OFF and the end broadcast timestamp parameter with when the Download indicators are turned ON. | | NPAC | The NPAC SMS responds with PBQR – NpbQueryReply with data not\_found return code | |
| 10. Optional | SP | The LSMS issues an SMEQ – SuspendModeEndRequest to the NPAC SMS (Optional) | | NPAC | The NPAC SMS removes the Suspend Mode status for the LSMS and responds with an SMER – SuspendModeEndReply | |
| 11. Conditional | NPAC | If Step 10 is not executed, NPAC Personnel submit Suspend mode end request from the NPAC GUI | | NPAC | The NPAC SMS removes the Suspend Mode status for the LSMS | |
| 12. Optional | SP | Service Provider personnel, using the LSMS, perform a local query for the data updated in this test case. | | SP | Verify that the following updates were sent:   * + SV group a was created.   + SV group b was deleted.   + SV group c was deleted.   + SV group d was created.   + SV group e was created.   + SV group f was modified. | |
| 13. | NPAC | NPAC personnel perform a Full audit for the Subscription Versions that were updated during this test case. | | NPAC | Using the Audit Results Log, verify that there were no updates made. If any updates were made as a result of running this audit, this test case fails. | |
| **E.** | **Pass/Fail Analysis, CO 554-3** | | | | |
| Pass | Fail | NPAC personnel performed the test case as written. | | | | |
| Pass | Fail | Service Provider personnel performed the test case as written. | | | | |

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| **A.** | **TEST IDENTITY** |  | | | |
|  | **Test Case Number:** | **CO 554-4** | SUT Priority: | **SOA** | N/A | |
| **LSMS** | Conditional | |
|  | **Objective:** | LSMS – Verify that the new downloads are processed successfully after the LSMS exits Suspend Mode – Success | | | |
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| **B.** | **REFERENCES** |  | | | |
|  | **Change Order Revision Number:** | V2 | Change Order Number(s): | CO 554 | | |
|  | **FRS Version Number:** | R5.1 | **Relevant Requirement(s):** | RR6-264 through RR6-276 | | |
|  | **IIS Version Number:** | R5.1 | **Relevant Flow(s):** |  | | |
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| **C.** | **PREREQUISITE** |  | | | |
|  | **Prerequisite Test Cases:** |  | | | |

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|  | **Prerequisite NPAC Setup:** | | 1. Service Provider LSMS XML Supports Suspend Mode Indicator must be set to TRUE.  2. While the LSMS is in Suspend Mode and the SubscriptionVersion/NPB Download Data and Network Data download indicators are turned ON, NPAC personnel perform the following functions:  a) Create 5 LRNs. (LRN group a)  b) Delete 5 LRNs. (LRN group b)  c) Create 5 NPA-NXXs. (NPA-NXX group c)  d) Delete 5 NPA-NXXs. (NPA-NXX group d)  e) Create an NPA-NXX-X. (Dash X group e)  f) Modify an NPA-NXX-X. (Dash X group f)  g) Delete an NPA-NXX-X. (Dash X group g)  h) Activate 5 new Blocks. If the LSMS under test supports SV Type and/or Optional Data elements specify these attributes with the Number Pool Block. (NPB group h)  i) Modify 5 existing Blocks. (NPB group i)  j) DePool 5 existing Blocks. (NPB group j)  k) Activate 5 Inter-SP Subscription Versions for a Pooled TN. (SV group k)  l) Disconnect 5 Pooled Ported TNs. (SV group l)  m) Activate 5 Inter-SP, Port-To-Original Subscription Versions for a Pooled Ported TN. (SV group m)  n) Create 5 Subscription Versions with a new NPA-NXX created for first-port. (SV group n)  o) Issue an activate request for a range of 5 Inter-Service Provider Subscription Versions. (SV group o).  p) Activate 5 Intra-SP Subscription Versions. (SV group p)  q) Modify 5 Inter-SP Subscription Versions for an existing TN (SV group q)  r) Create a new service provider. (service provider group r)  s) 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 s) | | | | |
|  | **Prerequisite SP Setup:** | | 1. Service Provider LSMS XML queries all the data objects (Customer, NPA-NXX, LRN, NPA-NXX-X, NPB, SV) while in Suspend mode, but before NPAC creates the pre-req setup data mentioned above | | | | |
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| **D.** | **TEST STEPS and EXPECTED RESULTS** | | | | |
| **Row #** | **NPAC or SP** | **Test Step** | | **NPAC or SP** | **Expected Result** | |
| 1. Optional | SP | The LSMS issues an SMEQ – SuspendModeEndRequest to the NPAC SMS (Optional) | | NPAC | The NPAC SMS removes the Suspend Mode status for the LSMS and responds with an SMER – SuspendModeEndReply and all messages generated while the LSMS is in Suspend mode are sent to the LSMS | |
| 2. Conditional | NPAC | If Step 1 is not executed, NPAC Personnel submit Suspend mode end request from the NPAC GUI | | NPAC | The NPAC SMS removes the Suspend Mode status for the LSMS and all messages generated while the LSMS is in Suspend mode are sent to the LSMS | |
| 3. | SP | Service Provider personnel, using the LSMS, perform a local query for the data updated in this test case. | | SP | Verify that the following updates were sent:   * + LRN group a was created.   + LRN group b was deleted.   + NPA-NXX group c was created.   + NPA-NXX group d was deleted.   + NPA-NXX-X (Dash X group e) was created – if supported by the Service Provider LSMS.   + NPA-NXX-X (Dash X group f) was modified – if supported by the Service Provider LSMS.   + NPA-NXX-X (Dash X group g) was deleted – if supported by the Service Provider LSMS.   + NPB group h was created. If the LSMS supports SV Type and/or Optional Data elements, these attributes are included.   + NPB group i was modified.   + NPB group j was deleted.   + SV group k was created.   + SV group l was deleted.   + SV group m was deleted.   + SV group n notification was received.   + SV group o was created.   + SV group p was created.   + SV group q was modified.   + Service Provider group r was created   + NPA-NXX group s, to verify the Effective Date was modified as indicated in the prerequisite data. | |
| 4. | NPAC | NPAC personnel perform a Full audit for the Subscription Versions and Number Pool Blocks that were updated during this test case. | | NPAC | Using the Audit Results Log, verify that there were no updates made. If any updates were made as a result of running this audit, this test case fails. | |
| **E.** | **Pass/Fail Analysis, CO 554-4** | | | | |
| Pass | Fail | NPAC personnel performed the test case as written. | | | | |
| Pass | Fail | Service Provider personnel performed the test case as written. | | | | |

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| **A.** | **TEST IDENTITY** | |  | | | | | | | |
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|  | **Test Case Number:** | | **CO 554-5** | | SUT Priority: | | **SOA** | | N/A | | |
| **LSMS** | | Conditional | | |
|  | **Objective:** | | LSMS – NPAC returns an exception when the LSMS sends a SuspendModeEndRequest while the LSMS is NOT in suspend mode - Error | | | | | | | |
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| **B.** | **REFERENCES** | |  | | | | | | | |
|  | **Change Order Revision Number:** | | V2 | | Change Order Number(s): | | CO 554 | | | | |
|  | **FRS Version Number:** | | R5.1 | | **Relevant Requirement(s):** | | RR6-264 through RR6-276 | | | | |
|  | **IIS Version Number:** | | R5.1 | | **Relevant Flow(s):** | |  | | | | |
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| **C.** | **PREREQUISITE** | |  | | | | | | | |
|  | **Prerequisite Test Cases:** | |  | | | | | | | |
|  | **Prerequisite NPAC Setup:** | | Service Provider LSMS XML Supports Suspend Mode Indicator must be set to TRUE.  LSMS is NOT in Suspend Mode. | | | | | | | |
|  | **Prerequisite SP Setup:** | |  | | | | | | | |
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| **D.** | **TEST STEPS and EXPECTED RESULTS** | | | | | | |
| **Row #** | **NPAC or SP** | **Test Step** | | **NPAC or SP** | | **Expected Result** | | | |
| 1. | SP | The LSMS issues an SMEQ – SuspendModeEndRequest to the NPAC SMS | | NPAC | | The NPAC SMS receives the SMEQ request from LSMS and determines that the LSMS in NOT in Suspend Mode.  (This violates system requirements.) | | | |
| 2. | NPAC | The NPAC SMS issues an exception as the LSMS is NOT in Suspend Mode. | | SP | | The Service Provider LSMS receives the accessDenied error. | | | |
| **E.** | **Pass/Fail Analysis, CO 554-5** | | | | | | |
| 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 LSMS received the error response from the NPAC SMS and handled it appropriately. | | | | | | | |

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| **A.** | **TEST IDENTITY** | |  | | | | | | | |
|  | **Test Case Number:** | | **CO 554-6** | | SUT Priority: | | **SOA** | | N/A | | |
| **LSMS** | | Conditional | | |
|  | **Objective:** | | LSMS – NPAC returns an exception when the LSMS sends a SpidAndNetworkDataQueryRequest while the LSMS is NOT in suspend mode - Error | | | | | | | |
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| **B.** | **REFERENCES** | |  | | | | | | | |
|  | **Change Order Revision Number:** | | V2 | | Change Order Number(s): | | CO 554 | | | | |
|  | **FRS Version Number:** | | R5.1 | | **Relevant Requirement(s):** | | RR6-264 through RR6-276 | | | | |
|  | **IIS Version Number:** | | R5.1 | | **Relevant Flow(s):** | |  | | | | |
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| **C.** | **PREREQUISITE** | |  | | | | | | | |
|  | **Prerequisite Test Cases:** | |  | | | | | | | |
|  | **Prerequisite NPAC Setup:** | | Service Provider LSMS XML Supports Suspend Mode Indicator must be set to TRUE.  LSMS is NOT in Suspend Mode. | | | | | | | |
|  | **Prerequisite SP Setup:** | |  | | | | | | | |
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| **D.** | **TEST STEPS and EXPECTED RESULTS** | | | | | | |
| **Row #** | **NPAC or SP** | **Test Step** | | **NPAC or SP** | | **Expected Result** | | | |
| 1. | SP | The LSMS issues an SNQQ – SpidAndNetworkDataQueryRequest message to the NPAC SMS to query any network object type with an activity timestamp range | | NPAC | | The NPAC SMS receives the SpidAndNetworkDataQueryRequest from LSMS and determines that the LSMS in NOT in Suspend Mode.  (This violates system requirements.) | | | |
| 2. | NPAC | The NPAC SMS issues an exception as the LSMS is NOT in Suspend Mode. | | SP | | The Service Provider LSMS receives the accessDenied error. | | | |
| **E.** | **Pass/Fail Analysis, CO 554-6** | | | | | | |
| 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 LSMS received the error response from the NPAC SMS and handled it appropriately. | | | | | | | |

## CO 556 – New SV Download Reason – Optional Test Cases for delete-pto Download Reason Feature

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| **A.** | **TEST IDENTITY** | |  | | | | | | |
|  | **Test Case Number:** | | **CO 556-1** | | SUT Priority: | | **SOA** | | N/A |
| **LSMS** | | Conditional |
|  | **Objective:** | | LSMS – NPAC Personnel activate a single Port-to-Original SV and Disconnect an activated SV. Verify Download Reason for the deleted subscription versions. – Success | | | | | | |
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| **B.** | **REFERENCES** | |  | | | | | | |
|  | **Change Order Revision Number:** | | V5 | | Change Order Number(s): | | CO 556 | | |
|  | **FRS Version Number:** | | R5.1.1 | | **Relevant Requirement(s):** | | RR4-26 through RR4-28, RR4-30 through RR4-32, RR5-233 through RR4-236 | | |
|  | **IIS Version Number:** | | R5.1.1 | | **Relevant Flow(s):** | |  | | |
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| **C.** | **PREREQUISITE** | |  | | | | | | |
|  | **Prerequisite Test Cases:** | |  | | | | | | |
|  | **Prerequisite NPAC Setup:** | | 1. Service Provider LSMS XML Delete PTO Indicator must be set to TRUE.  2. Verify a port-to-original ‘pending’ SV exists.  3. Verify an ‘active’ SV exists. | | | | | | |
|  | **Prerequisite SP Setup:** | | 1. Verify TNs exist on the service provider LSMS as listed above in the Prerequisite NPAC Setup Steps 2 & 3. | | | | | | |
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| **D.** | **TEST STEPS and EXPECTED RESULTS** | | | | | | |
| **Row #** | **NPAC or SP** | **Test Step** | | **NPAC or SP** | | **Expected Result** | | | |
| 1. | NPAC | NPAC Personnel submit a request to activate the port-to-original subscription version. | | NPAC | | NPAC SMS receives the activate request and sets the port-to-original SV status to ‘Sending’. | | | |
| 2. | NPAC | NPAC SMS sends a deletion request SVDD – SvDeleteDownload for the TN to the service provider LSMS. NPAC SMS sets the Download Reason for the TN to PTO Delete. | | SP | | Service Provider LSMS deletes the object for the TN and sends an acknowledgment DNLR – DownloadReply to the NPAC SMS. | | | |
| 3. | SP - Conditional | LSMS Personnel perform a local query for the TN activated. | | SP | | Verify that the subscription version is deleted with Download Reason set to delete-pto. | | | |
| 4. | NPAC | NPAC Personnel submit a request to disconnect the ‘active’ SV. | | NPAC | | NPAC SMS receives the disconnect request and sets the SV status to ‘Sending’. | | | |
| 5. | NPAC | NPAC SMS sends a deletion request SVDD – SvDeleteDownload for the SV to the service provider LSMS.  NPAC SMS sets the Download Reason for the SV to Delete. | | SP | | All the LSMSs delete the object for the TN and send an acknowledgment DNLR – DownloadReply to the NPAC SMS. | | | |
| 6. | SP - Conditional | LSMS Personnel perform a local query for the disconnected TN. | | SP | | Verify that the subscription version is deleted with Download Reason set to Delete. | | | |
| 7. | NPAC | NPAC Personnel perform a full audit of LSMS for the TN that was activated during this test case. | | NPAC | | Using the Audit Results Log verify that no updates were made as a result of performing the audit. If updates were made, the LSMS fails this test case. | | | |
| 8. | NPAC | NPAC Personnel perform a full audit of LSMS for the TN that was disconnected during this test case. | | NPAC | | Using the Audit Results Log verify that no updates were made as a result of performing the audit. If updates were made, the LSMS fails this test case. | | | |
| **E.** | **Pass/Fail Analysis, CO 556-1** | | | | | | |
| Pass | Fail | NPAC personnel performed the test case as written. | | | | | | | |
| Pass | Fail | Service Provider personnel performed the test case as written. | | | | | | | |

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| **TEST IDENTITY** | |  | | | | | | |
| **Test Case Number:** | | **CO 556-2** | | SUT Priority: | | **SOA** | | N/A |
| **LSMS** | | Conditional |
| **Objective:** | | LSMS – NPAC Personnel activate a range of Port-to-Original subscription versions which result in Partial-Failure and then resent successfully to the failed LSMS. Verify the Download Reason for the subscription version range. – Success | | | | | | |
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| **REFERENCES** | |  | | | | | | |
| **Change Order Revision Number:** | | V5 | | Change Order Number(s): | | CO 556 | | |
| **FRS Version Number:** | | R5.1.1 | | **Relevant Requirement(s):** | | RR4-26 through RR4-28, RR4-30 through RR4-32, RR5-233 through RR4-236 | | |
| **IIS Version Number:** | | R5.1.1 | | **Relevant Flow(s):** | |  | | |
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| **PREREQUISITE** | |  | | | | | | |
| **Prerequisite Test Cases:** | |  | | | | | | |
| **Prerequisite NPAC Setup:** | | 1. Service Provider LSMS XML Delete PTO Indicator must be set to TRUE.  2. Verify that a port-to-original ‘pending’ SV range exists.  3. Verify that the SUT LSMS is DOWN. | | | | | | |
| **Prerequisite SP Setup:** | | 1. Verify TNs exist on the service provider LSMS as listed above in the NPAC Setup Step 2. | | | | | | |
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| **TEST STEPS and EXPECTED RESULTS** | | | | | | |
| **NPAC or SP** | **Test Step** | | **NPAC or SP** | | **Expected Result** | | | |
| NPAC | NPAC Personnel submit a request to activate the range of port-to-original subscription versions. | | NPAC | | NPAC SMS receives the activate request and sets the port-to-original SV range status to ‘Sending’. | | | |
| NPAC | NPAC SMS sends a single deletion request for all the TNs to the LSMSs that are accepting Subscription Version data downloads for the given NPA-NXX via the LSMS Mechanized Interface. | | SP | | All LSMSs, except for the service provider LSMS, delete the object for each TN and send an acknowledgment to the NPAC SMS. | | | |
| NPAC | NPAC SMS does not receive acknowledgment DNLR – DownloadReply of successful object deletion from the service provider LSMS.  NPAC SMS sends the deletion request x times at y minute intervals to a LSMS that has not sent a successful acknowledgment.  NPAC SMS sets the status, for the existing Subscription Version, to old upon exhausting the above number of retries to a LSMS that has not sent a successful acknowledgment.  NPAC SMS sets the status to partial failure Service Provider for the PTO Subscription Version including the list of failed LSMSs, upon disconnect failure. | | NPAC | | Verify the subscription version status is set to Old with empty failed sp-list for the previously active subscription version  Verify the port-to-original subscription version status is set to ‘Partial-Fail’ including the list of failed LSMSs. | | | |
| SP | LSMS Personnel bring UP the LSMS without recovering data. | | NPAC | | NPAC Personnel verify the port-to-original subscription status is still ‘Partial-Fail’ with the service provider LSMS in the failed sp-list. | | | |
| NPAC | NPAC Personnel resend the deletion request SVDD – SvDeleteDownload for the TN range after the LSMS is UP.  NPAC SMS sets the Download Reason for the TNs to PTO Delete. | | SP | | Service provider LSMS deletes the object for each TN and sends an acknowledgment DNLR – DownloadReply to the NPAC SMS. | | | |
| SP - Conditional | LSMS Personnel perform a local query for the TN range activated. | | SP | | Verify that the subscription versions are deleted with Download Reason set to delete-pto. | | | |
| NPAC | NPAC Personnel perform a full audit of the LSMS for the TN range that was activated during this test case. | | NPAC | | Using the Audit Results Log verify that no updates were made as a result of performing the audit. If updates were made, the LSMS fails this test case. | | | |
| **Pass/Fail Analysis, CO 556-2** | | | | | | |
| Fail | NPAC personnel performed the test case as written. | | | | | | | |
| Fail | Service Provider personnel performed the test case as written. | | | | | | | |

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| **A.** | **TEST IDENTITY** | |  | | | | | | |
|  | **Test Case Number:** | | **CO 556-3** | | SUT Priority: | | **SOA** | | N/A |
| **LSMS** | | Conditional |
|  | **Objective:** | | NPAC OP GUI – NPAC Personnel initiate a Bulk Data Download of Subscription Data specifying a time range to include a range of Active, Disconnected, and Port-to-Original subscription versions. Verification steps are performed to ensure the BDD file was processed successfully by the LSMS. – Success | | | | | | |
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| **B.** | **REFERENCES** | |  | | | | | | |
|  | **Change Order Revision Number:** | | V5 | | Change Order Number(s): | | CO 556 | | |
|  | **FRS Version Number:** | | R5.1.1 | | **Relevant Requirement(s):** | | RR4-26 through RR4-28, RR4-30 through RR4-32, RR5-233 through RR4-236 | | |
|  | **IIS Version Number:** | | R5.1.1 | | **Relevant Flow(s):** | |  | | |
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| **C.** | **PREREQUISITE** | |  | | | | | | |
|  | **Prerequisite Test Cases:** | |  | | | | | | |
|  | **Prerequisite NPAC Setup:** | | 1. Service Provider LSMS XML Delete PTO Indicator must be set to TRUE.  2. While the LSMS is DOWN, NPAC personnel perform the following functions:  a. Disconnect a range of 5 Active subscription versions. Verify these subscription versions exist with a status of ‘Old’ with the SUT LSMS in the failed sp-list.  b. Activate a range of 5 port-to-original subscription versions. Verify these subscription versions exist with a status of ‘partial-fail’ with the SUT LSMS in the failed sp-list.  c. Activate a range of 5 Pending subscription versions. Verify these subscription versions exist with a status of ‘partial-fail’ with the SUT LSMS in the failed sp-list.  d. Modify LRN for a range of 5 Active subscription versions. Verify these subscription versions exist with a status of ‘partial-fail’ with the SUT LSMS in the failed sp-list. | | | | | | |
|  | **Prerequisite SP Setup:** | | 1. Verify TNs exist on the service provider LSMS as listed above in the NPAC Setup Steps 2a, 2b, & 2d. | | | | | | |
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| **D.** | **TEST STEPS and EXPECTED RESULTS** | | | | | | |
| **Row #** | **NPAC or SP** | **Test Step** | | **NPAC or SP** | | **Expected Result** | | | |
| 1. | NPAC | Using the NPAC OP GUI, NPAC Personnel request a Bulk Data Download of Subscription Data, specifying a time range to include the range of Active, Disconnected and Port-to-Original subscription versions specified in the prerequisite setup for the SUT LSMS. | | NPAC | | The NPAC SMS performs the request, generates the appropriate Bulk Data Download File(s) and automatically “FTP’s” the file(s) to the Service Provider’s directory on the NPAC SMS.  Verify that the BDD file includes the Download Reason 1 (delete1) for the disconnected TNs.  Verify that the BDD file includes the Download Reason 4 (delete-pto) for the activated PTO TNs.  Verify that the BDD file includes the Download Reason 0 (new1) for the activated TNs.  Verify that the BDD file includes the Download Reason 2 (modified) for the modified TNs. | | | |
| 2. | SP | Service Provider Personnel receive the Bulk Data Download File(s) and load the file into their LSMS. | | SP | | The LSMS successfully processes the Bulk Data Download file(s) and reflects the updates described in the prerequisites above. | | | |
| 3. | SP | Service Provider Personnel, using their LSMS, perform a local query for the Subscription Data to verify that the Subscription Version data was loaded successfully. | | SP | | Using the LSMS system, verify:   * SV group a does not exist on the LSMS. Verify all the SVs with download reason 1 (delete1) are processed successfully. * SV group b does not exist on the LSMS. Verify all the SVs with download reason 4 (delete-pto) are processed successfully. * SV group c exists on the LSMS. * SV group d exists on the LSMS. Verify that all the SVs reflect the ‘modified’ SV values from the prerequisites above. | | | |
| 4. | SP | LSMS Personnel bring UP the LSMS without recovering data. | | NPAC | | NPAC Personnel verify that all the subscription versions setup for the testcase include the service provider LSMS in the failed sp-list. | | | |
| 5. | NPAC | NPAC Personnel perform multiple full audits of the LSMS for all the TN ranges that was setup during this test case. | | NPAC | | The audit finds the LSMS under test not discrepant for the SVs audited and the LSMS is removed from the Failed SP List for the audited SVs. Using the Audit Results Log verify that no updates were made as a result of performing the audit. If updates were made, the LSMS fails this test case. | | | |
| **E.** | **Pass/Fail Analysis, CO 556-3** | | | | | | |
| Pass | Fail | NPAC personnel performed the test case as written. | | | | | | | |
| Pass | Fail | Service Provider personnel performed the test case as written. | | | | | | | |

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| **A.** | **TEST IDENTITY** | |  | | | | | | |
|  | **Test Case Number:** | | **CO 556-4** | | SUT Priority: | | **SOA** | | N/A |
| **LSMS** | | Conditional |
|  | **Objective:** | | LSMS – Service Provider personnel using their LSMS submit a Subscription Version query request to the NPAC SMS. | | | | | | |
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| **B.** | **REFERENCES** | |  | | | | | | |
|  | **Change Order Revision Number:** | | V5 | | Change Order Number(s): | | CO 556 | | |
|  | **FRS Version Number:** | | R5.1.1 | | **Relevant Requirement(s):** | | RR4-26 through RR4-28, RR4-30 through RR4-32, RR5-233 through RR4-236 | | |
|  | **IIS Version Number:** | | R5.1.1 | | **Relevant Flow(s):** | | B.5.6 | | |
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| **C.** | **PREREQUISITE** | |  | | | | | | |
|  | **Prerequisite Test Cases:** | |  | | | | | | |
|  | **Prerequisite NPAC Setup:** | | 1. Service Provider LSMS XML Delete PTO Indicator must be set to TRUE.  2. Verify that there are a number of Subscription Versions that can be queried by performing the following actions:  a) Activate a range of 5 subscription versions.  b) Activate a range of 5 port-to-original subscription versions.  c) Disconnect a range of 5 subscription versions. | | | | | | |
|  | **Prerequisite SP Setup:** | |  | | | | | | |
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| **D.** | **TEST STEPS and EXPECTED RESULTS** | | | | | | |
| **Row #** | **NPAC or SP** | **Test Step** | | **NPAC or SP** | | **Expected Result** | | | |
| 1. | SP | Using the LSMS, Service Provider personnel issue a svQueryRequest for Subscription Versions that will return query results for the pre-requisite setup mentioned above. | | NPAC | | The NPAC SMS replies with SVQR – SvQueryReply with the requested data. | | | |
| 2. | SP | The Service Provider LSMS receives the svQueryReply Response. | | NPAC | | Verify the following query results were sent:   1. SV range with download reason set to new1. 2. SV range with download reason set to delete-pto for the prior version of the SV and new1 for the PTO version of the SV. 3. SV range with download reason set to delete1. | | | |
| **E.** | **Pass/Fail Analysis, CO 556-4** | | | | | | |
| Pass | Fail | NPAC personnel performed the test case as written. | | | | | | | |
| Pass | Fail | Service Provider personnel performed the test case as written. | | | | | | | |

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| **A.** | **TEST IDENTITY** | |  | | | | | | |
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|  | **Test Case Number:** | | **CO 556-5** | | SUT Priority: | | **SOA** | | Conditional |
| **LSMS** | | N/A |
|  | **Objective:** | | SOA – Service Provider personnel using their SOA submit a Subscription Version query request to the NPAC SMS. | | | | | | |
|  |  | |  | | | | | | |
| **B.** | **REFERENCES** | |  | | | | | | |
|  | **Change Order Revision Number:** | | V5 | | Change Order Number(s): | | CO 556 | | |
|  | **FRS Version Number:** | | R5.1.1 | | **Relevant Requirement(s):** | | RR4-26 through RR4-28, RR4-30 through RR4-32, RR5-233 through RR4-236 | | |
|  | **IIS Version Number:** | | R5.1.1 | | **Relevant Flow(s):** | | B.5.6 | | |
|  |  | |  | | | | | | |
| **C.** | **PREREQUISITE** | |  | | | | | | |
|  | **Prerequisite Test Cases:** | |  | | | | | | |
|  | **Prerequisite NPAC Setup:** | | 1. Service Provider SOA XML Delete PTO Indicator must be set to TRUE.  2. Verify that there are a number of Subscription Versions that can be queried by performing the following actions:  a) Activate a range of 5 subscription versions.  b) Activate a range of 5 port-to-original subscription versions.  c) Disconnect a range of 5 subscription versions. | | | | | | |
|  | **Prerequisite SP Setup:** | |  | | | | | | |
|  |  | |  | | | | | | |
| **D.** | **TEST STEPS and EXPECTED RESULTS** | | | | | | |
| **Row #** | **NPAC or SP** | **Test Step** | | **NPAC or SP** | | **Expected Result** | | | |
| 1. | SP | Using the SOA, Service Provider personnel issue a svQueryRequest for Subscription Versions that will return query results for the pre-requisite setup mentioned above. | | NPAC | | The NPAC SMS replies with SVQR – SvQueryReply with the requested data. | | | |
| 2. | SP | The Service Provider SOA receives the svQueryReply Response. | | SP | | Verify the following query results were sent:   1. SV range with download reason set to new1. 2. SV range with download reason set to delete-pto for the prior version of the SV and new1 for the PTO version of the SV. 3. SV range with download reason set to delete1. | | | |
| **E.** | **Pass/Fail Analysis, CO 556-5** | | | | | | |
| Pass | Fail | NPAC personnel performed the test case as written. | | | | | | | |
| Pass | Fail | Service Provider personnel performed the test case as written. | | | | | | | |

## CO 565 – Add SV Concurrence to SV Query Reply – Optional Test Cases

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **A.** | **TEST IDENTITY** | |  | | | | | | |
|  |  | |  | | | | | | |
|  | **Test Case Number:** | | **CO 565-1** | | SUT Priority: | | **SOA** | | Conditional |
| **LSMS** | | N/A |
|  | **Objective:** | | SOA – Service Provider personnel using their SOA submit a Subscription Version query request to the NPAC SMS and query reply includes SV Concurrence field. | | | | | | |
|  |  | |  | | | | | | |
| **B.** | **REFERENCES** | |  | | | | | | |
|  | **Change Order Revision Number:** | | V1 | | Change Order Number(s): | | CO 565 | | |
|  | **FRS Version Number:** | | 5.2.1 | | **Relevant Requirement(s):** | | RR5-237, RR5-238, RR5-239, RR5-240, RR5-74.3 (SV Concurrence) | | |
|  | **IIS Version Number:** | | 5.2.1 | | **Relevant Flow(s):** | | B.5.6 | | |
|  |  | |  | | | | | | |
| **C.** | **PREREQUISITE** | |  | | | | | | |
|  | **Prerequisite Test Cases:** | |  | | | | | | |
|  | **Prerequisite NPAC Setup:** | | 1. Service Provider SOA XML Supports SV Concurrence Indicator must be set to TRUE.  2. Setup the following Subscription Versions, where SUT is either New SP or Old SP, that can be queried by performing the following actions:  a) New SP creates an LSPP Pending SV and the Old SP has concurred.  b) New SP creates an LSPP Pending PTO SV and the T2 timer has expired but the Old SP has NOT concurred.  c) Old SP creates an LSPP Pending SV and the T1 or T2 timer has NOT expired.  d) New SP creates an LSPP Pending SV and the T1 or T2 timer has NOT expired and the Old SP has NOT concurred.  e) Create an LSPP Conflict SV.  f)  Create an LISP Pending SV.  g)  Create an LSPP Active SV. | | | | | | |
|  | **Prerequisite SP Setup:** | |  | | | | | | |
|  |  | |  | | | | | | |
| **D.** | **TEST STEPS and EXPECTED RESULTS** | | | | | | |
| **Row #** | **NPAC or SP** | **Test Step** | | **NPAC or SP** | | **Expected Result** | | | |
| 1. | SP | Using the SOA, Service Provider personnel issue a svQueryRequest for Subscription Versions that will return query results for the pre-requisite setup mentioned above. | | NPAC | | The NPAC SMS replies with SVQR – SvQueryReply with the requested data. | | | |
| 2. | SP | The Service Provider SOA receives the svQueryReply Response. | | SP | | Verify the query results for the following SVs were sent with SV Concurrence field set to the following value:   1. TRUE 2. TRUE 3. TRUE 4. FALSE   Verify the query results for (e), (f), (g) SVs do not include the SV Concurrence field. | | | |
| **E.** | **Pass/Fail Analysis, CO 565-1** | | | | | | |
| Pass | Fail | NPAC personnel performed the test case as written. | | | | | | | |
| Pass | Fail | Service Provider personnel performed the test case as written. | | | | | | | |

**End of Chapter**