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

February 22, 2022

Release 5.1

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# Vendor Turn Up Test Scenarios Related to NPAC Release 5.1.

Section 18 contains all test cases written for Turn Up testing of Release 5.1.x 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.

## 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):** |  | | |
|  | **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. 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:** | |  | | | | |
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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 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 | | | |
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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):** |  | | |
|  | **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. 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:** | |  | | | | |
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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 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 | | | |
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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):** |  | | |
|  | **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. 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:** | |  | | | | |
|  |  | |  | | | | |
| **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 | | | |
|  |  |  | | | |
| **B.** | **REFERENCES** |  | | | |
|  | **Change Order Revision Number:** | V2 | Change Order Number(s): | CO 554 | | |
|  | **FRS Version Number:** | R5.1 | **Relevant Requirement(s):** |  | | |
|  | **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):** | |  | | | | |
|  | **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):** | |  | | | | |
|  | **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. | | | | | | | |

**End of Chapter**