*DELTA DOCUMENT*

NPAC SMS

Interoperability Test Plan

Release 3.4

Supporting NANC IIS Version 3.4b

**December 1, 2010**

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# MOC Test Cases

## NANC 355

For each test case related to NANC 355, Modification Timestamp Support Indicator should be set to TRUE or FALSE as dictated by the individual test case, to verify that all systems are capable of supporting the two different values.

### MOC.NPAC.SOA.CAP.OP.SET.serviceProvNPA-NXX

|  |  |
| --- | --- |
| ***Purpose*** | Tests the capability of the SOA to support the M-SET of the serviceProvNPA-NXX-EffectiveTimeStamp attribute in the serviceProvNPA-NXX MO class. |
| ***Severity*** | C |
| ***Severity Explanation*** | Test case must be executed if the SOA supports modification of the NPA-NXX Effective Timestamp. |
| ***Prerequisites*** | A serviceProvNPA-NXX exists on the SOA. |
| ***Procedure*** | 1. NPAC SMS ITP Tool sends an M-SET request for serviceProvNPA-NXX serviceProvNPA-NXX-EffectiveTimeStamp attribute. 2. SOA responds successfully to the M-SET |
| ***Expected Results*** | The NPAC SMS ITP Tool sends an M-SET request to the SOA and the SOA responds successfully. |

### MOC.NPAC.CAP.OP.SET.serviceProvNPA-NXX

|  |  |
| --- | --- |
| ***Purpose`*** | Tests the capability of the LSMS to support the M-SET of the serviceProvNPA-NXX-EffectiveTimeStamp attribute in the serviceProvNPA-NXX MO class. |
| ***Severity*** | C |
| ***Severity Explanation*** | Test case must be executed if the LSMS supports modification of the NPA-NXX Effective Timestamp. |
| ***Prerequisites*** | A serviceProvNPA-NXX exists on the LSMS. |
| ***Procedure*** | 1. NPAC SMS ITP Tool sends an M-SET request for serviceProvNPA-NXX serviceProvNPA-NXX-EffectiveTimeStamp attribute. 2. SOA responds successfully to the M-SET |
| ***Expected Results*** | The NPAC SMS ITP Tool sends an M-SET request to the LSMS and the LSMS responds successfully. |

Perform the following Test Cases for query of NPA-NXX when the SOA Supports NPA-NXX Modification Flag Indicator is TRUE, or the LSMS Supports NPA-NXX Modification Flag Indicator is TRUE. Each Test Case should be performed twice, once where the Modification Timestamp attribute is null, and once where the Modification Timestamp attribute is populated with a timestamp value.

### MOC.SOA.CAP.OP.GET.serviceProvNPA-NXX (copied and created Modification Timestamp test cases, MOC.NPAC.SOA.CAP.OP.GET.MODTS.NULL.serviceProvNPA-NXX, MOC.NPAC.SOA.CAP.OP.GET.MODTS.NOTNULL.serviceProvNPA-NXX)

### MOC.LSMS.CAP.OP.GET.serviceProvNPA-NXX (copied and created Modification Timestamp test cases, MOC.LSMS.CAP.OP.GET.MODTS.NULL.serviceProvNPA-NXX, MOC.LSMS.CAP.OP.GET.MODTS.NOTNULL.serviceProvNPA-NXX)

Perform the following Test Cases for Recovery. If the Modification Timestamp is supported, the modification is recovered (M-SET). If the Modification Timestamp is not supported, the delete and re-add are recovered (M-DELETE, M-CREATE).

If support new functionality and SWIM. Conditional, to recover missed modification via SWIM.

### MOC.SOA.CAP.ACT.SWIM.lnpNetwork.lnpDownload (copied and created Modification Timestamp test cases, MOC.SOA.CAP.ACT.SWIM.MODTS.NULL.lnpNetwork.lnpDownload, MOC.SOA.CAP.ACT.SWIM.MODTS.NOTNULL.lnpNetwork.lnpDownload, MOC.SOA.CAP.ACT.SWIM.NOMODTS.lnpNetwork.lnpDownload)

### MOC.LSMS.CAP.ACT.SWIM.lnpNetwork.lnpDownload (copied and created Modification Timestamp test cases, MOC.LSMS.CAP.ACT.SWIM.MODTS.NULL.lnpNetwork.lnpDownload, MOC.LSMS.CAP.ACT.SWIM.MODTS.NOTNULL.lnpNetwork.lnpDownload, MOC.LSMS.CAP.ACT.SWIM.NOMODTS.lnpNetwork.lnpDownload)

If support new functionality but not SWIM. Conditional, to recover missed modification via regular recovery, and.or Linked-Reply recovery.

### MOC.SOA.CAP.ACT.lnpNetwork.lnpDownload (copied and created Modification Timestamp test cases, MOC.SOA.CAP.ACT.MODTS.lnpNetwork.lnpDownload, MOC.SOA.CAP.ACT.NOMODTS.lnpNetwork.lnpDownload, MOC.SOA.CAP.ACT.LINK.MODTS.lnpNetwork.lnpDownload)

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If do not support new functionality but do support SWIM. Optional, to recover missed delete and re-add via SWIM.

### MOC.SOA.CAP.ACT.SWIM.lnpNetwork.lnpDownload

### MOC.LSMS.CAP.ACT.SWIM.lnpNetwork.lnpDownload

If do not support new functionality and do not support SWIM. Optional, to recover missed delete and re-add via regular recovery.

### MOC.SOA.CAP.ACT.lnpNetwork.lnpDownload

### MOC.LSMS.CAP.ACT.lnpNetwork.lnpDownload

Application Recovery testing, based on support of Linked-Replies and/or SWIM, the following Test Cases will be performed to recover the missed messages. Execution is based on:

* Conditional, if support modify
* Optional, if support delete and re-add

### A2A.SOA.VAL.MISC.ACTION.resync (copied and created Modification Timestamp test case, A2A.SOA.VAL.MISC.ACTION.MODTS.resync)

### A2A.SOA.VAL.MISC.ACTION.LINK.resync (copied and created Modification Timestamp test case, A2A.SOA.VAL.MISC.ACTION.LINK.MODTS.resync)

### A2A.SOA.VAL.MISC.ACTION.SWIM.resync (copied and created Modification Timestamp test case, A2A.SOA.VAL.MISC.ACTION.SWIM.MODTS.resync)

### A2A.LSMS.VAL.MISC.ACTION.resync (copied and created Modification Timestamp test case, A2A.LSMS.VAL.MISC.ACTION.MODTS.resync)

### A2A. LSMS.VAL.MISC.ACTION.LINK.resync (copied and created Modification Timestamp test case, A2A.LSMS.VAL.MISC.ACTION.LINK.MODTS.resync)

### A2A. LSMS.VAL.MISC.ACTION.SWIM.resync (copied and created Modification Timestamp test case, A2A.LSMS.VAL.MISC.ACTION.SWIM.MODTS.resync)

## NANC 408

For each test case, SOA Automated SPID Migration Support Indicator or LSMS Automated SPID Migration Support Indicator should be set to TRUE to verify support of the new CMIP message.

### MOC.NPAC.SOA.CAP.ACT.lnpSpidMigration

|  |  |
| --- | --- |
| ***Purpose*** | Test the capability of the SOA to correctly respond to an M-ACTION request for lnpSpidMigration. |
| ***Severity*** | C |
| ***Severity Explanation*** | This test case must be executed if the SOA supports the SPID Migration ACTION. |
| ***Prerequisites*** | N/A |
| ***Procedure*** | 1. NPAC SMS ITP Tool sends an lnpSpidMigration M-ACTION request. 2. SOA responds successfully to the M-ACTION. |
| ***Expected Results*** | The NPAC SMS ITP Tool sends a valid M- ACTION request and receives the SOA M- ACTION response indicating successful receipt of the lnpSpidMigration request. |

### MOC.NPAC.LSMS.CAP.ACT.lnpSpidMigration

|  |  |
| --- | --- |
| ***Purpose*** | Test the capability of the LSMS to correctly respond to an M-ACTION request for lnpSpidMigration. |
| ***Severity*** | C |
| ***Severity Explanation*** | This test case must be executed if the LSMS supports the SPID Migration ACTION. |
| ***Prerequisites*** | N/A |
| ***Procedure*** | 1. NPAC SMS ITP Tool sends an lnpSpidMigration M-ACTION request. 2. LSMS responds successfully to the M-ACTION. |
| ***Expected Results*** | The NPAC SMS ITP Tool sends a valid M- ACTION request and receives the LSMS M- ACTION response indicating successful receipt of the lnpSpidMigration request. |

## NANC 426

For each test case, modified attributes (e.g., LRN, DPC/SSNs) that are currently not sent will be sent in an attributeValueChange notification.

### MOC.SOA.CAP.NOT.MASS.subscriptionVersionAttributeValueChange

|  |  |
| --- | --- |
| ***Purpose*** | To test the SOA’s ability to accept an attributeValueChange notification that contains modified routing data as a result of an NPAC Mass Update. |
| ***Severity*** | C |
| ***Severity Explanation*** | This test case must be executed if the service provider SOA supports an attributeValueChange notification as a result of an NPAC Mass Update. |
| ***Prerequisites*** | Active Subscription Version(s) exist. |
| Procedure | 1. NPAC SMS ITP Tool issues the attributeValueChange M-EVENT-REPORT that contains the modified attributes. If the SOA supports the TN Attribute, the TN/TN-Range attribute is provided in the SV AVC notification. 2. SOA confirms the M-EVENT-REPORT. |
| ***Expected Results*** | The SOA receives the NPAC SMS ITP Tool's M-EVENT-REPORT properly that contains the modified attributes. |

### MOC.SOA.CAP.NOT.RANGE.MASS.subscriptionVersionRangeAttributeValueChange

|  |  |
| --- | --- |
| ***Purpose*** | To test the SOA’s ability to accept a subscriptionVersionRangeAttributeValueChange notification using the range-data CHOICE field in the ASN.1 that contains modified routing data as a result of an NPAC Mass Update. |
| ***Severity*** | C |
| ***Severity Explanation*** | This test case must be executed if the service provider SOA supports a subscriptionVersionRangeAttributeValueChange notification as a result of an NPAC Mass Update. |
| ***Prerequisites*** | Active Subscription Versions exist. |
| Procedure | 1. NPAC SMS ITP Tool issues the subscriptionVersionRangeAttributeValueChange M-EVENT-REPORT that contains the modified attributes. If the SOA supports the TN Attribute, the TN/TN-Range attribute is provided in the SV AVC notification. 2. SOA confirms the M-EVENT-REPORT. |
| ***Expected Results*** | The SOA receives the NPAC SMS ITP Tool's M-EVENT-REPORT properly that contains the modified attributes. |

### MOC.SOA.CAP.NOT.LIST.MASS.subscriptionVersionRangeAttributeValueChange

|  |  |
| --- | --- |
| ***Purpose*** | To test the SOA’s ability to accept a subscriptionVersionRangeAttributeValueChange notification using the list-data CHOICE field in the ASN.1 that contains modified routing data as a result of an NPAC Mass Update. |
| ***Severity*** | C |
| ***Severity Explanation*** | This test case must be executed if the service provider SOA supports a subscriptionVersionRangeAttributeValueChange notification as a result of an NPAC Mass Update. |
| ***Prerequisites*** | Active Subscription Versions exist. |
| Procedure | 1. NPAC SMS ITP Tool issues the subscriptionVersionRangeAttributeValueChange M-EVENT-REPORT that contains the modified attributes. If the SOA supports the TN Attribute, the TN/TN-Range attribute is provided in the SV AVC notification. 2. SOA confirms the M-EVENT-REPORT. |
| ***Expected Results*** | The SOA receives the NPAC SMS ITP Tool's M-EVENT-REPORT properly that contains the modified attributes. |

Appendix A – Test Case Nomenclature

| stack-To-stack test-id symbols | |
| --- | --- |
| Abbreviation | Description |
| S2S | Stack-to-Stack Interoperability Testing |
| VAL | Valid Test |
| INV | Invalid Test |
| SOA | Initiating system is SOA |
| LSMS | Initiating system is LSMS |
| ASSOC | Association (A-ASSOCIATE) Request |
| RELES | Release (A-RELEASE) Request |
| ABORT | Abort (A-ABORT) Request |
| INVK | Invalid KEY |
| INVT | Invalid Time |
| ISMFU | Invalid Systems Management Functional Unit Identifier |
| ISEQ | Invalid Sequence Number |

| security test-id symbols | |
| --- | --- |
| Abbreviation | Description |
| SEC | Security Interoperability Testing |
| VAL | Valid Test |
| INV | Invalid Test |
| SOA | Initiating system is SOA |
| LSMS | Initiating system is LSMS |
| ASSOC | Association (A-ASSOCIATE) Request |
| RELES | Release (A-RELEASE) Request |
| ABORT | Abort (A-ABORT) Request |
| INVK | Invalid KEY |
| INVT | Invalid Time |
| ISMFU | Invalid Systems Management Functional Unit Identifier |
| ISEQ | Invalid Sequence Number |

| MOC test-id symbols | |
| --- | --- |
| Abbreviation | Description |
| MOC | Managed Object Conformance Interoperability Testing |
| NPAC | Initiating System is NPAC |
| SOA | Initiating system is SOA |
| LSMS | Initiating system is LSMS |
| CAP | MO Capability Test |
| OP | Operation Test |
| NOT | Notification Test |
| ACT | Action Test |
| VAL | Valid behaviour Test |
| INV | Invalid behaviour Test |
| CRE | MO Instance Create Test |
| DEL | MO Instance Delete Test |
| SET | Attribute Set Test |
| GET | Attribute Get Test |
| SING | Operation on Single Attribute Test |
| MULT | Operation on Multiple Attribute Test |
| COND | Operation on Conditional Attribute Test |
| AUTO | Automatic Object Naming |
| RO | Read Only |
| CO | Contained Objects |
| SCOP | Scoped Test |
| FILT | Filter Test |
| BND | Boundary Test |
| MIN | Lower Bound Test |
| MAX | Upper Bound Test |
| MAXQ | Maximum number of allowed queries |
| MAXB | Maximum number of allowed Bytes |
| RANGE | Tests the “range” structure of a “range/list” notification |
| LIST | Tests the “list” structure of a “range/list” notification |
| MASS | Mass Update |
| MODTS | Modified TimeStamp |
| NOMODTS | No Modified TimeStamp |
| NOTNULL | Not Null value |
| NULL | Null value |

| recovery test-id symbols | |
| --- | --- |
| Abbreviation | Description |
| AMG | Association Management Interoperability Testing |
| SOA | Initiating system is SOA |
| LSMS | Initiating system is LSMS |
| ASSOC | Association (A-ASSOCIATE) Request |
| REASSOC | re-establish Association |
| REQTMOT | Request Timeout Test |
| RETRY | Retry a Request |
| SWOV | Switch Over |
| BKUP | Backup NPAC |
| CMIP | CMIP requests |
| SECVIOL | Security Violation Test |
| LOSS | Association Loss Test |
| DOWN | NPAC Down test |
| SAME | Retry Same Host |
| OTHER | Retry Other Host |

| A2A test-id symbols | |
| --- | --- |
| Abbreviation | Description |
| A2A | Application to Application Test |
| LSMS | System Under Test is an LSMS |
| SOA | System Under Test is a SOA |
| NSOA | System Under Test is a New SOA |
| OSOA | System Under Test is an Old SOA |
| DSOA | System Under Test is a Donor SOA |
| VAL | Valid Transaction Test |
| INV | Invalid Transaction / Inopportune Behavior Test |
| Audit Test Cases | |
| MISSVER | Missing Subscription Version Test |
| OBSVER | Old Subscription Version Test |
| ERRVER | Erroneous Subscription Version Test |
| NODIS | No Discrepancy Found Test |
| TN | Single Telephone Number Test |
| TNRNG | Telephone Number Range Test |
| ACTRNG | Activation Range Test |
| WITHDIS | Audit Discrepancy Found Test |
| NPACCNCLD | Canceled by NPAC |
| CRENOT | Object Creation Notification |
| TIMOUT | Operation/Transaction Timeout Test |
| COMP | Audit Complete Test |
| NORES | Missing Audit Results Test |
| NUMTN | Audit Number of TNs Test |
| COMPTN | Completed Number of TNs Test |
| NUMDISERR | Number of Discrepancies Error Test |
| Service Provider and Network Data Test Cases | |
| SETSP | Set Service Provider Test |
| CREND | Create a Network Data Instance Test |
| DELND | Delete a Network Data Instance Test |
| Subscription Version Test Cases | |
| CREATE | Subscription Version Creation Test |
| ACTIVATE | Subscription Version Activation Test |
| MODIFY | Subscription Version Modification Test |
| CANCEL | Subscription Version Cancellation Test |
| IMMDISC | Subscription Version Immediate Disconnect Test |
| DEFDISC | Subscription Version Deferred Disconnect Test |
| STATE-TRANS | State Transition Test |
| FIRST | First Create Transaction Test |
| SECOND | Second Create Transaction Test |
| TN-RANGE | Telephone Number Range Transaction Test |
| PEND | Pending Subscription Version Test |
| CONFLICT | Conflict Subscription Version Test |
| ACT, ACTIVE | Active Subscription Version Test |
| OLD | Old Subscription Version Test |
| PARTFAIL | Partially Failed Subscription Version Test |
| FAIL, FAILED | Failed Subscription Version Test |
| SENDING | Sending Subscription Version Test |
| CANCEL-PEND | Cancel-Pending Subscription Version Test |
| DISCPEND | Disconnect-Pending Subscription Version Test |
| OBJCRE | Object Creation Notification Test |
| NOTMISS | Missing Notification Test |
| ACTNOTMISS | Active Status Missing Notification Test |
| BYNPAC | Operation Performed by NPAC Test |
| BYOSOA | Operation Performed by Old SOA Test |
| BYNSOA | Operation Performed by New SOA Test |
| ATTRCHNG | Attribute is Changed Test |
| STATCHNG | Status Attribute is Changed Test |
| ATTRSAME | Attribute in Unchanged Test |
| NONONC | No Concurrence by Other SOA Test |
| ACKREQ | Acknowledge Request Test |
| RESOLV | Conflict Resolution Test |
| PORT-TO-ORIG | Port To Original SP Test |
| MULT | Multiple Versions Test |
| UNKNOWN | Unknown Instance Test |
| Miscellaneous Test Cases | |
| MISC | Miscellaneous Test |
| ACTION | Action Request Test |
| EVENT | Event Report Test |
| SET | Set Request Test |

Appendix B – Release 3.4 Test Case Checklist

| **Test Case Number and Name** | | | **Sev** | **Date** | **Result** |
| --- | --- | --- | --- | --- | --- |
| **MOC NANC 351** | | | | | |
| 1 | 1.1.1 | MOC.NPAC.SOA.CAP.OP.SET.serviceProvNPA-NXX | C |  |  |
| 2 | 1.1.2 | MOC.NPAC.LSMS.CAP.OP.SET.serviceProvNPA-NXX | C |  |  |
| 3 | 1.1.3 | MOC.SOA.CAP.OP.GET.serviceProvNPA-NXX | C |  |  |
| 4 | 1.1.4 | MOC.LSMS.CAP.OP.GET.serviceProvNPA-NXX | C |  |  |
| 5 | 1.1.5 | MOC.SOA.CAP.ACT.SWIM.lnpNetwork.lnpDownload | C |  |  |
| 6 | 1.1.6 | MOC.LSMS.CAP.ACT.SWIM.lnpNetwork.lnpDownload | C |  |  |
| 7 | 1.1.7 | MOC.SOA.CAP.ACT.lnpNetwork.lnpDownload | C |  |  |
| 8 | 1.1.8 | MOC.LSMS.CAP.ACT.lnpNetwork.lnpDownload | C |  |  |
| 9 | 1.1.9 | MOC.SOA.CAP.ACT.SWIM.lnpNetwork.lnpDownload | C |  |  |
| 10 | 1.1.10 | MOC.LSMS.CAP.ACT.SWIM.lnpNetwork.lnpDownload | C |  |  |
| 11 | 1.1.11 | MOC.SOA.CAP.ACT.lnpNetwork.lnpDownload | C |  |  |
| 12 | 1.1.12 | MOC.LSMS.CAP.ACT.lnpNetwork.lnpDownload | C |  |  |
| 13 | 1.1.13 | A2A.SOA.VAL.MISC.ACTION.resync | C |  |  |
| 14 | 1.1.14 | A2A.SOA.VAL.MISC.ACTION.LINK.resync | C |  |  |
| 15 | 1.1.15 | A2A.SOA.VAL.MISC.ACTION.SWIM.resync | C |  |  |
| 16 | 1.1.16 | A2A.LSMS.VAL.MISC.ACTION.resync | C |  |  |
| 17 | 1.1.17 | A2A. LSMS.VAL.MISC.ACTION.LINK.resync | C |  |  |
| 18 | 1.1.18 | A2A. LSMS.VAL.MISC.ACTION.SWIM.resync | C |  |  |
| 19 | 1.2.1 | MOC.NPAC.SOA.CAP.ACT.lnpSpidMigration | C |  |  |
| 20 | 1.2.2 | MOC.NPAC.LSMS.CAP.ACT.lnpSpidMigration | C |  |  |
| 21 | 1.3.1 | MOC.SOA.CAP.NOT.MASS.subscriptionVersionAttributeValueChange | C |  |  |
| 22 | 1.3.2 | MOC.SOA.CAP.NOT.RANGE.MASS.subscriptionVersionRangeAttributeValueChange | C |  |  |
| 23 | 1.3.3 | MOC.SOA.CAP.NOT.LIST.MASS.subscriptionVersionRangeAttributeValueChange | C |  |  |