**Origination Date:** 07/07/2015

**Originator:** iconectiv

### Change Order Number: NANC 460

**Description:** Sunset List – No Local System Impact

**Functional Backwards Compatible:** Yes

**IMPACT/CHANGE ASSESSMENT**

|  |  |  |
| --- | --- | --- |
| DOC | FRS | IIS |
| Y | Y |

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

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

**Business Need**

From the NPAC sunset discussions, a list of features that were no longer needed in the NPAC was identified for sunsetting. It was decided the Sunset list should be divided into two groups, those that have no local system impact, and those that have a local system impact.

NANC 460 concerns sunsetting those items that **do not** have a local system impact, consisting of the following features:

* 1.4 – Sunset ability for SOA to use a separate channel for notifications (NANC 383)
* 3.1 – Sunset single TN Notifications
* 3.4 – Sunset the ability for SOA to not support Cause Code 2 (automatic conflict from cancellation notification)
* 3.5 – Sunset the ability for SOA to not support receiving AVC when an SV transitions from Cancel-Pending to Conflict due to expiration of T2
* 7.1 – Sunset BDD Response Files
* 8.2 – Sunset Data Integrity Sample (Audit and report)
* 9.3 – Sunset the following (highlighted in yellow) unused billing categories (like mass storage, audits, etc.)
* 10.1 – Clarify Requirements for Unused User ID disable period tunable/feature

The full list of features identified for sunsetting is in the attached document.



Note – this change order only concerns FRS and IIS/EFD changes associated with sunsetting these features. Since these features were implemented by iconectiv as part of the NPAC transition, this change order results in documentation-only updates. At some future date, the GDMO and ASN.1 changes associated with sunsetting these features will be implemented.

**Description of Change:**

**Changes for 1.4 – Sunset ability for SOA to use a separate channel for notifications (NANC 383)**

**FRS Changes:**

**Section 3.1.2**, NPAC Customer Data, Table 3-2, modify the “NPAC Customer Allowable Functions” attribute for the SOA Notification Download capability:

[snip]

|  |  |  |  |
| --- | --- | --- | --- |
| NPAC Customer Allowable Functions | M | √ | Each bit in the mask represents a Boolean indicator for the following functional options:   1. SOA Management 2. SOA Network Data Management 3. SOA Data Download 4. SOA Notification Download – not supported; always set to 0 (false) 5. LSMS Network Data Management 6. LSMS Data Download 7. LSMS Queries/Audits   (only applies to the CMIP interface, not the XML interface) |

[snip]

Section 6.11, rename the section and remove some requirements:

[snip]

6.11 Multiple CMIP Associations

RR6-182 Separate Association for the Notification Function From different NSAPs

DELETED

RR6-183 Security Management of Multiple SOA Associations of Different Association Functions

NPAC SMS shall manage security for multiple SOA associations of different association functions from different Service Provider NSAPs. (previously NANC 383, Req 6)

RR6-184 Sending of SOA Notifications when Notification Channel is Active

DELETED

RR6-185 Separate Notification Channel during Recovery

DELETED

RR6-186 Treatment of Multiple Associations when there is an Intersection of Association Function

NPAC SMS shall accept an association bind request, in the case of an intersection of the association functions of an existing SOA association, and abort any previous associations that use that same function. (previously NANC 383, Req 9)

[snip]

IIS Changes:

Section 5.2.1.8, Exhibit 135 on Association Functions, remove SOA Notifications, and remove last paragraph in this section

[snip]

| **Query Outbound from the NPAC SMS**  **Classes:**  **All** |  | 0x10 |
| --- | --- | --- |
| **~~SOA Notifications (only applicable for SOAs supporting a separate notification association)~~**  **~~Classes:~~**  **~~lnpNPAC-SMS~~**  **~~lnpSubscriptions~~**  **~~numberPoolBlockNPAC~~**  **~~subscriptionAudit~~**  **~~subscriptionVersionNPAC~~** | ~~0x40~~ |  |

The association functions specified upon association are stored. Then all subsequent operations performed by that associations are then validated against that data to verify that they are 'legal'. All outbound messages from the NPAC are also validated against the association functions and if a service provider does not have the correct masking set, they will not receive the transmission. Note that the multiple Association Functions can be specified for an association. For example, a Local SMS can establish an association for both the process audit and network and subscription data download association functions.

~~SOA Notifications have been separated out to support SOAs that wish to implement a separate SOA Channel for Notifications. Based on the Service Provider tunable (SOA Notification Channel Service Provider Tunable), this function may be included in a SOA association, even if the Service Provider does not bind with that function mask. This allows SOA notifications to be sent down a single SOA channel.~~

[snip]

Section 5.3.4 on Recovery, 4th paragraph, remove last sentence:

[snip]

The SOA or LSMS is capable of recovering data based on the association functions. The SOA recovers service provider data and network data using the data download association function (dataDownload). The SOA recovers notification data using the network data management association function (networkDataMgmt). The LSMS recovers service provider data and network data, subscription data, and number pool block using the data download association function (dataDownload), and recovers notification data using the network data management association function (networkDataMgmt). ~~If a SOA supports a separate SOA channel, the SOA recovers notification data using the notification download association function (notificationDownload).~~

[snip]

Section 5.7 on Separate SOA Channel for Notifications” – remove

~~Section 5.7 Separate SOA Channel for Notifications~~

~~A SOA system may connect to the NPAC SMS with multiple SOA channels (i.e., associations) for different functions (different bit masks), specifically request/response data versus notification data. The NPAC SMS will distribute transactions across these SOA associations based on functionality (different bit masks). This allows for additional throughput for the SOA as a result of two associations.~~

**EFD Changes**

[snip]

**Section B.7.3**, remove second paragraph:

**B.7.3** **Sequencing of Events on Initialization/Resynchronization of SOA**

This scenario demonstrates how a SOA resynchronizes itself with the NPAC SMS. In this example, the SOA supports network data over the SOA.

~~If the SOA supports a separate SOA channel for notifications, then they should associate with the notificationDownload function bit.~~

This scenario demonstrates the recovery of additions, deletions and modifications of service provider, network, and notification data.

[snip]

**Section B.7.3.1**, remove second paragraph:

[snip]

**B.7.3 Sequencing of Events on Initialization/Resynchronization of SOA using SWIM**

This scenario demonstrates how a SOA resynchronizes itself with the NPAC SMS using SWIM criteria. In this example, the SOA supports network data, data downloads and notifications over the SOA.

~~If the SOA supports a separate SOA channel for notifications, then they should associate with the notificationDownload function bit.~~

This scenario demonstrates the recovery of additions, deletions and modifications of service provider, network, and notification data.

[snip]

**Changes for 3.1 – Sunset single TN Notifications**

**FRS Changes:**

**Section 1.5** on Assumptions – remove assumption concerning modifying TN range notification indicator:

[snip]

AR5-3 Changing of TN Range Notification Indicator while Notifications are Queued

DELETED

[snip]

Section 3.1.2 on NPAC Customer Data, Table 3-2, modify the “TN Range Notification Indicator” attribute

[snip]

|  |  |  |  |
| --- | --- | --- | --- |
| TN Range Notification Indicator | B | √ | A Boolean that indicates whether or not the NPAC Customer supports receiving the range format for SOA Notifications.  Value is always TRUE and modification is not supported. |

[snip]

Section 3.8.1 on TN Range Notification Indicator, modify some requirements:

[snip]

Section 3.8.1 TN Range Notification Indicator

RR3-237 NPAC Customer TN Range Notification Indicator

NPAC SMS shall provide a mechanism to indicate whether a Service Provider supports receiving TN Range Notifications via the SOA-to-NPAC SMS Interface. (Formerly NANC 179 Req 1)

RR3-238 NPAC Customer TN Range Notification Indicator – Default

NPAC SMS shall default the TN Range Notification Indicator toTRUE and shall only allow a value of TRUE for the TN Range Notification Indicator. (Formerly NANC 179 Req 2, NANC 460)

RR3-239 NPAC Customer TN Range Notification Indicator – Modification

NPAC SMS shall prohibit NPAC Personnelfrom modifying the TN Range Notification Indicator on the NPAC Customer record to any value other than TRUE. (Formerly NANC 179 Req 3, NANC 460)

[snip]

Secion 5.1 on Subscription Version Management, remove some requirements:

[snip]

RR5-113 TN Range Notification Information – Service Provider TN Range Notification Indicator Sending of TN Range Notifications

NPAC SMS shall send TN Range Notifications, via the SOA-to-NPAC SMS Interface, if the Service Provider's TN Range Notification Indicator is **TRUE**. (Formerly NANC 179 Req 4)

RR5-114 TN Range Notification Information – Service Provider TN Range Notification Indicator Suppression of TN Range Notifications

DELETED

AR5-3 Changing of TN Range Notification Indicator while Notifications are Queued

DELETED

RR5-115 TN Range Notification Information – Single TN Range Notifications

NPAC SMS shall send a single TN Range Notification when the same feature data applies to all TNs in the range. (Formerly NANC 179 Req 6)

[snip]

**Section 6.7.1**, Notification Recovery,remove notifications associated with single TN notifications.

[snip]

RR6-29 Notification Recovery

NPAC SMS shall support recovery of all CMIP notifications defined in the IIS that are emitted over the NPAC SMS-to-Local SMS interface and SOA-to-NPAC SMS interface. Examples of notifications to be recovered include:

subscriptionVersionNewNPA-NXX

~~subscriptionVersionDonorSP-CustomerDisconnectDate~~

subscriptionAudit-DiscrepancyRpt

subscriptionAuditResults

~~lnpNPAC-SMS-Operational-Information~~

~~subscriptionVersionNewSP-CreateRequest (time sensitive T1 New SP)~~

~~subscriptionVersionOld-SP-ConcurrenceRequest (time sensitive T1 Old SP)~~

~~subscriptionVersionOldSPFinalWindowExpiration (time sensitive T2 Old SP)~~

~~subscriptionVersionStatusAttributeValueChange~~

numberPoolBlockStatusAttributeValueChange

attributeValueChange

objectCreation

objectDeletion

~~subscriptionVersionNewSP-FinalCreateWindowExpiration (if supported by the recovering SOA)~~

* subscriptionVersionRangeStatusAttributeValueChange
* subscriptionVersionRangeAttributeValueChange
* subscriptionVersionRangeObjectCreation
* subscriptionVersionRangeDonorSP-CustomerDisconnectDate
* subscriptionVersionRangeNewSP-CancellationAcknowledge
* subscriptionVersionRangeNewSP-CreateRequest
* subscriptionVersionRangeOldSP-ConcurrenceRequest
* subscriptionVersionRangeOldSPFinalConcurrenceWindowExpiration
* subscriptionVersionRangeNewSPFinalCreateWindowExpiration

For a complete list of notifications reference the IIS.

**Appendix E**, Notification Download File, remove the following notifications associated with single TN Range Notifications:

* Subscription VersionNPAC-ObjectCreation

[snip]

|  |  |  |
| --- | --- | --- |
| ~~subscriptionVersionNPAC-ObjectCreation~~ | | |
| 1 | ~~Creation TimeStamp~~ | ~~For example: 19960101155555~~  ~~If the SOA supports the Last Activity Timestamp in the BDD, then the Message Origination TimeStamp will be used in place of the Creation TimeStamp. The Creation TimeStamp uses the format yyyymmddhhmmss, and the Message Origination TimeStamp uses the format yyyymmddhhmmss.fff.~~ |
| 2 | ~~Service Provider ID~~ | ~~1001~~ |
| 3 | ~~System Type~~ | ~~0~~ |
| 4 | ~~Notification ID~~ | ~~1006~~ |
| 5 | ~~Object ID~~ | ~~21~~ |
| 6 | ~~New Service Provider Creation Time Stamp~~ | ~~20050518231625~~ |
| … | ~~…~~ | ~~…~~ |
| 20 | ~~Version TN~~ | ~~3034401000~~ |
| 21 | ~~Version ID~~ | ~~1239999909~~ |

[snip]

* SubscriptionVersionNPAC-attributeValueChange

[snip]

|  |  |  |
| --- | --- | --- |
| ~~subscriptionVersionNPAC-attributeValueChange~~ | | |
| ~~1~~ | ~~Creation TimeStamp~~ | ~~For example: 19960101155555~~  ~~If the SOA supports the Last Activity Timestamp in the BDD, then the Message Origination TimeStamp will be used in place of the Creation TimeStamp. The Creation TimeStamp uses the format yyyymmddhhmmss, and the Message Origination TimeStamp uses the format yyyymmddhhmmss.fff.~~ |
| ~~2~~ | ~~Service Provider ID~~ | ~~1003~~ |
| ~~3~~ | ~~System Type~~ | ~~0~~ |
| ~~4~~ | ~~Notification ID~~ | ~~1001~~ |
| ~~5~~ | ~~Object ID~~ | ~~21~~ |
| ~~6~~ | ~~New Service Provider Creation Time Stamp~~ | ~~20050518231625~~ |
| ~~…~~ | ~~…~~ | ~~…~~ |
| ~~31~~ | ~~Version TN~~ | ~~3034401000~~ |
| ~~32~~ | ~~Version ID~~ | ~~1234567890~~ |
|  | ~~Optional Data parameters (e.g., Alternative SPID, Alt-Billing ID, SMS URI) within the Optional Data Field are included/excluded based on a combination of the region’s support for a specific parameter AND the requesting Service Provider’s NPAC Customer profile settings at the time of BDD file generation.~~  ~~The order of the included parameters is based on the latest version of the applicable LNP XML schema that is available on the NPAC website (~~[~~www.npac.com~~](http://www.npac.com)~~, under the software releases section).~~ | |

[snip]

* subscriptionVersionDonorSP-CustomerDisconnectDate

[snip]

|  |  |  |
| --- | --- | --- |
| ~~subscriptionVersionDonorSP-CustomerDisconnectDate~~ | | |
| ~~1~~ | ~~Creation TimeStamp~~ | ~~For example: 19960101155555~~  ~~If the SOA supports the Last Activity Timestamp in the BDD, then the Message Origination TimeStamp will be used in place of the Creation TimeStamp. The Creation TimeStamp uses the format yyyymmddhhmmss, and the Message Origination TimeStamp uses the format yyyymmddhhmmss.fff.~~ |
| ~~2~~ | ~~Service Provider ID~~ | ~~0001~~ |
| ~~3~~ | ~~System Type~~ | ~~0~~ |
| ~~4~~ | ~~Notification ID~~ | ~~6~~ |
| ~~5~~ | ~~Object ID~~ | ~~21~~ |
| ~~6~~ | ~~Customer Disconnect Date~~ | ~~20050530230000~~ |
| ~~7~~ | ~~Effective Release Date~~ | ~~20050530230000~~ |
| ~~8~~ | ~~Version TN~~ | ~~3031231000~~ |
| ~~9~~ | ~~Version ID~~ | ~~1234567899~~ |

[snip]

* subscriptionVersionCancellationAcknowledgeRequest

[snip]

|  |  |  |
| --- | --- | --- |
| ~~subscriptionVersionCancellationAcknowledgeRequest~~ | | |
| ~~1~~ | ~~Creation TimeStamp~~ | ~~The time the notification was created.~~  ~~For example: 19960101155555~~  ~~If the SOA supports the Last Activity Timestamp in the BDD, then the Message Origination TimeStamp will be used in place of the Creation TimeStamp. The Creation TimeStamp uses the format yyyymmddhhmmss, and the Message Origination TimeStamp uses the format yyyymmddhhmmss.fff.~~ |
| ~~2~~ | ~~Service Provider ID~~ | ~~1003~~ |
| ~~3~~ | ~~System Type (SOA=0, LSMS=1)~~ | ~~0~~ |
| ~~4~~ | ~~Notification ID~~ | ~~4~~ |
| ~~5~~ | ~~Object ID~~ | ~~21~~ |
| ~~6~~ | ~~Version TN~~ | ~~3031231000~~ |
| ~~7~~ | ~~Version ID~~ | ~~1234567899~~ |

[snip]

* subscriptionVersionNewSP-CreateRequest

[snip]

|  |  |  |
| --- | --- | --- |
| ~~subscriptionVersionNewSP-CreateRequest~~ | | |
| ~~1~~ | ~~Creation TimeStamp~~ | ~~For example: 19960101155555~~  ~~If the SOA supports the Last Activity Timestamp in the BDD, then the Message Origination TimeStamp will be used in place of the Creation TimeStamp. The Creation TimeStamp uses the format yyyymmddhhmmss, and the Message Origination TimeStamp uses the format yyyymmddhhmmss.fff.~~ |
| ~~2~~ | ~~Service Provider ID~~ | ~~0001~~ |
| ~~3~~ | ~~System Type~~ | ~~0~~ |
| ~~4~~ | ~~Notification ID~~ | ~~9~~ |
| ~~5~~ | ~~Object ID~~ | ~~21~~ |
| ~~…~~ | ~~…~~ | ~~…~~ |
| ~~13~~ | ~~Version TN~~ | ~~1232201999~~ |
| ~~14~~ | ~~Version ID~~ | ~~1234000099~~ |

[snip]

* subscriptionVersionOldSP-ConcurrenceRequest

[snip]

|  |  |  |
| --- | --- | --- |
| ~~subscriptionVersionOldSP-ConcurrenceRequest~~ | | |
| ~~1~~ | ~~Creation TimeStamp~~ | ~~For example: 19960101155555~~  ~~If the SOA supports the Last Activity Timestamp in the BDD, then the Message Origination TimeStamp will be used in place of the Creation TimeStamp. The Creation TimeStamp uses the format yyyymmddhhmmss, and the Message Origination TimeStamp uses the format yyyymmddhhmmss.fff.~~ |
| ~~2~~ | ~~Service Provider ID~~ | ~~0001~~ |
| ~~3~~ | ~~System Type~~ | ~~0~~ |
| ~~4~~ | ~~Notification ID~~ | ~~10~~ |
| ~~5~~ | ~~Object ID~~ | ~~21~~ |
| ~~…~~ | ~~…~~ | ~~…~~ |
| ~~11~~ | ~~Version TN~~ | ~~3033301000~~ |
| ~~12~~ | ~~Version ID~~ | ~~1234560000~~ |

[snip]

* subscriptionVersionStatusAttributeValueChange

[snip]

|  |  |  |
| --- | --- | --- |
| ~~subscriptionVersionStatusAttributeValueChange~~ | | |
| ~~1~~ | ~~Creation TimeStamp~~ | ~~For example: 19960101155555~~  ~~If the SOA supports the Last Activity Timestamp in the BDD, then the Message Origination TimeStamp will be used in place of the Creation TimeStamp. The Creation TimeStamp uses the format yyyymmddhhmmss, and the Message Origination TimeStamp uses the format yyyymmddhhmmss.fff.~~ |
| ~~2~~ | ~~Service Provider ID~~ | ~~0001~~ |
| ~~3~~ | ~~System Type~~ | ~~0~~ |
| ~~4~~ | ~~Notification ID~~ | ~~11~~ |
| ~~5~~ | ~~Object ID~~ | ~~21~~ |
| ~~6~~ | ~~Subscription Version Status~~ | ~~1~~ |
| ~~…~~ | ~~…~~ | ~~…~~ |
| ~~12~~ | ~~(failed list) Service Provider ID – Service Provider Name~~ | ~~2910-Tel S~~ |
| ~~13~~ | ~~…~~ | ~~1034-Tel M~~ |

[snip]

* subscriptionVersionOldSPFinalConcurrenceWindow Expiration

[snip]

|  |  |  |
| --- | --- | --- |
| ~~subscriptionVersionOldSPFinalConcurrenceWindowExpiration~~ | | |
| ~~1~~ | ~~Creation TimeStamp~~ | ~~For example: 19960101155555~~  ~~If the SOA supports the Last Activity Timestamp in the BDD, then the Message Origination TimeStamp will be used in place of the Creation TimeStamp. The Creation TimeStamp uses the format yyyymmddhhmmss, and the Message Origination TimeStamp uses the format yyyymmddhhmmss.fff.~~ |
| ~~2~~ | ~~Service Provider ID~~ | ~~0001~~ |
| ~~3~~ | ~~System Type~~ | ~~0~~ |
| ~~4~~ | ~~Notification ID~~ | ~~12~~ |
| ~~5~~ | ~~Object ID~~ | ~~21~~ |
| ~~6~~ | ~~Subscription Timer Type~~ | ~~0~~ |
| ~~7~~ | ~~Subscription Business Type~~ | ~~1~~ |
| ~~8~~ | ~~Version TN~~ | ~~3034401000~~ |
| ~~9~~ | ~~Version ID~~ | ~~1234567890~~ |

[snip]

* subscriptionVersionNewSP-FinalCreateWindowExpiration

[snip]

|  |  |  |
| --- | --- | --- |
| ~~subscriptionVersionNewSP-FinalCreateWindowExpiration~~ | | |
| ~~1~~ | ~~Creation TimeStamp~~ | ~~For example: 19960101155555~~  ~~If the SOA supports the Last Activity Timestamp in the BDD, then the Message Origination TimeStamp will be used in place of the Creation TimeStamp. The Creation TimeStamp uses the format yyyymmddhhmmss, and the Message Origination TimeStamp uses the format yyyymmddhhmmss.fff.~~ |
| ~~2~~ | ~~Service Provider ID~~ | ~~0001~~ |
| ~~3~~ | ~~System Type~~ | ~~0~~ |
| ~~4~~ | ~~Notification ID~~ | ~~23~~ |
| ~~5~~ | ~~Object ID~~ | ~~21~~ |
| ~~6~~ | ~~New Current Service Provider ID~~ | ~~1234~~ |
| ~~…~~ | ~~…~~ | ~~…~~ |
| ~~14~~ | ~~Version TN~~ | ~~1232201999~~ |
| ~~15~~ | ~~Version ID~~ | ~~1234567890~~ |

[snip]

**IIS Changes:**

**Section 2.3.3** on Notifications, remove 4th and 5th Paragraphs and lists of notifications following them:

[snip]

Each SOA notification is assigned a priority of **high**, **medium**, **low** or **none**. The category of **none** indicates that a Service Provider does not want to receive a particular notification. Notifications are then sent in order of priority from **high** to **low**.

~~SOA Service Providers can receive single or range versions of some notifications. If the service provider’s TN Range Notification Indicator is turned~~ **~~OFF~~** ~~in their service provider profile on the NPAC SMS, the following notifications will be sent:~~

~~Attribute Value Change for subscriptionVersionNPAC objects~~

~~Object Creation for subscriptionVersionNPAC objects~~

~~subscriptionVersionCancellationAcknowledgeRequest~~

~~subscriptionVersionDonorSP-CustomerDisconnectDate~~

~~subscriptionVersionNewSP-CreateRequest~~

~~subscriptionVersionNewSP-FinalCreateWindowExpiration~~

~~subscriptionVersionOldSP-ConcurrenceRequest~~

~~subscriptionVersionOldSPFinalConcurrenceWindowExpiration~~

~~subscriptionVersionStatusAttributeValueChange~~

~~If the service provider’s TN Range Notification Indicator is turned~~ **~~ON~~**~~, the following notifications will be sent:~~

~~subscriptionVersionRangeAttributeValueChange for subscriptionVersionNPAC objects~~

~~subscriptionVersionRangeCancellationAcknowledgeRequest~~

~~subscriptionVersionRangeDonorSP-CustomerDisconnectDate~~

~~subscriptionVersionRangeNewSP-FinalCreateWindowExpiration~~

~~subscriptionVersionRangeNewSP-CreateRequest~~

~~subscriptionVersionRangeObjectCreation for subscriptionVersionNPAC objects~~

~~subscriptionVersionRangeOldSP-ConcurrenceRequest~~

~~subscriptionVersionRangeOldSPFinalConcurrenceWindowExpiration~~

~~subscriptionVersionRangeStatusAttributeValueChange~~

Notifications can be recovered by the SOA from the NPAC SMS. Notifications to be recovered are requested by time range and are recovered in the order the NPAC SMS attempted to send them. Alternatively, notifications can be recovered using SWIM (**S**end **W**hat **I M**issed) recovery.

[snip]

**Section 4.1.1** Primary NPAC Mechanized Interface Operations, Exhibit 8

Remove references to single TN notications that are being sunset

[snip]

|  |  |  |  |
| --- | --- | --- | --- |
| Customer Disconnect Date | to SOA | M-EVENT-REPORT:  ~~subscriptionVersionDonorSP- CustomerDisconnectDate or~~ subscriptionVersionRangeDonorSP-CustomerDisconnectDate | subscriptionVersionNPAC  or  lnpSubscriptions |
| [snip] |  |  |  |
| Final Request for Version Create | to SOA (old service provider) | M-EVENT-REPORT: ~~subscriptionVersionOldSPFinalCo ncurrenceWindowExpiration or~~ subscriptionVersionRangeOldSPFinalConcurrenceWindowExpiration | subscriptionVersionNPAC  or  lnpSubscriptions |
| [snip] |  |  |  |
| Request for Cancellation Acknowledg-ment | to SOA | M-EVENT-REPORT:  ~~subscription VersionCancellationAcknowledgment  Request or~~ subscriptionVersionRangeCancellationAcknowledgeRequest | subscriptionVersionNPAC  or  lnpSubscriptions |
| Request for Version Create | to SOA (new service provider) | M-EVENT-REPORT: ~~subscriptionVersionNewSP-Create  Request or~~ subscriptionVersionRangeNewSP-CreateRequest | subscriptionVersionNPAC |
| Request for Version Create | to SOA (old service provider) | M-EVENT-REPORT: ~~subscriptionVersionOldSP- Concurrence  Request or~~ subscriptionVersionRangeOldSP-ConcurrenceRequest | subscriptionVersionNPAC  or  lnpSubscriptions |
| [snip] |  |  |  |
| Subscription Version Change Notification | to SOA | M-EVENT-REPORT: ~~attributeValueChangeNotification and subscriptionVersionStatusAttribute Value  Change or~~ subscriptionVersionRangeAttribute  ValueChange subscriptionVersionRangeStatusAttribute  ValueChange | subscriptionVersionNPAC  or  lnpSubscriptions |

[snip]

**Section 4.1.2** Managed Object Interface Functionality, Exhibit 9:

Remove references to single TN notications that are being sunset

[snip]

|  |  |
| --- | --- |
| ~~lnpLogDonorSP- CustomerDisconnectDate Record~~ | ~~Object used to log information from a subscriptionVersionDonorSP-CustomerDisconnectDate notification.~~ |
| [snip] |  |
| ~~lnpLogNewSP-CreateRequestRecord~~ | ~~Object used to log information from a  subscriptionVersionNewSP-CreateRequest notification.~~ |
| [snip] |  |
| ~~lnpLogOldSP-ConcurrenceRequestRecord~~ | ~~Object used to log information from a  subscriptionVersionOldSP-ConcurrenceRequest notification.~~ |
| ~~lnpLogOldSP- FinalConcurrenceWindow- Expiration~~ | ~~Object used to log information from a  subscriptionVersionOldSPFinalConcurrenceWindowExpiration notification~~ |
| [snip] |  |
| ~~lnpLogNewSP-FinalCreateWindowExpirationRecord~~ | ~~Object used to log information from a lnpLogNewSP- FinalCreateWindowExpiration notification.~~ |
| [snip] |  |
| ~~lnpLogStatusAttributeValueChangeRecord~~ | ~~Object used to log information from a  subscriptionVersionStatusAttributeValueChange notification.~~ |

[snip]

**Section 4.1.4** Notification Interface Functionality, Exhibit 11:

Remove references to single TN notications that are being sunset

[snip]

|  |  |
| --- | --- |
| ~~subscriptionVersionCancellationAcknowledg eRequest~~  **~~or~~**  subscriptionVersionRangeNewSP-CancellationAcknowledge | This notification is issued to new and old service providers to request that a cancellation acknowledgment be sent for a subscription version in a cancel-pending state. This notification is issued via the SOA to NPAC SMS interface if the service provider fails to acknowledge the cancellation after a tunable amount of time specified in the NPAC SMS.  ~~The NPAC SMS sends the appropriate notification depending upon the Service Provider's TN Range Notification Indicator.~~ |
| ~~subscriptionVersionDonorSP- CustomerDisconnectDate~~ **~~or~~**  subscriptionVersionRangeDonorSP-CustomerDisconnectDate | This notification informs the donor service provider SOA that a subscription version is being disconnected. This notification is issued from the NPAC SMS to a SOA via the SOA to NPAC SMS interface.  ~~The NPAC SMS sends the appropriate notification depending upon the Service Provider's TN Range Notification Indicator.~~ |
| [snip] |  |
| ~~subscriptionVersionNewSP-CreateRequest or~~  subscriptionVersionRangeNewSP-CreateRequest | This notification is issued to the new service provider to request that a create request be sent for the subscription version created by the old service provider to provide authorization and/or porting information. This notification is issued via the SOA to NPAC SMS interface if the new service provider failed to authorize porting of a number after a tunable amount of time specified in the NPAC SMS.  ~~The NPAC SMS sends the appropriate notification depending upon the Service Provider's TN Range Notification Indicator.~~ |
| ~~subscriptionVersionNewSPFinalCreateWind ow~~  ~~Expiration or~~  subscriptionVersionRangeNewSPFinalCreateWindowExpiration | This notification is issued to the new and old service provider, if they support the Final Create Window Expiration Notification in their Service Provider profile, to inform them of the expiration of the Final Concurrence Window on the NPAC SMS. This notification is issued from the NPAC SMS to the SOA via the SOA to NPAC SMS interface.  ~~The NPAC SMS sends the appropriate notification depending upon the Service Provider's TN Range Notification Indicator.~~ |
| ~~subscriptionVersionOldSP- ConcurrenceRequest or~~  subscriptionVersionRangeOldSP-ConcurrenceRequest | This notification is issued to the old service provider to request that a create request be sent for the subscription version created by the new service provider to provide concurrence for porting. This notification is issued via the SOA to NPAC SMS interface if the old service provider failed to authorize porting of a number after a tunable amount of time specified in the NPAC SMS.  ~~The NPAC SMS sends the appropriate notification depending upon the Service Provider's TN Range Notification Indicator.~~ |
| ~~subscriptionVersionStatusAttributeValueCha nge or~~  subscriptionVersionRangeStatusAttributeValue  Change | This notification is issued when the subscription version status is modified. This notification is issued from the NPAC SMS to the SOA via the SOA to NPAC SMS interface.  ~~The NPAC SMS sends the appropriate notification depending upon the Service Provider's TN Range Notification Indicator.~~ |
| ~~subscriptionVersionOldSPFinalConcurrence Window Expiration or~~  subscriptionVersionRangeOldSPFinalConcurrence  WindowExpiration | This notification is issued to the old service provider to request for a final time that a create request be sent for the subscription version created by the new service provider to provide concurrence for porting. This notification is issued via the SOA to NPAC SMS interface if the old service provider failed to authorize porting of a number after a tunable amount of time.  ~~The NPAC SMS sends the appropriate notification depending upon the Service Provider's TN Range Notification Indicator.~~ |

[snip]

**EFD Changes:**

Since some Section B.5 Subscription Version flows describe how TN Range and Subscription Version ID information is depicted in notifications sent to SOA, a common description of this is provided at the beginning of Section B.5.

[snip]

**B.5 Subscription Version Flow Scenarios**

Note: All actions for subscription versions in the flows that follow are atomic. If the operation fails for one TN in a range it fails for all TNs in the range.

Any create or update of a subscription version causes the subscriptionModifiedTimeStamp to be updated. Therefore the explicit setting of that attribute is not reflected in the subscription version flows.

With the adoption of NANC 460, CMIP single TN notification messages have been sunset and only TN Range Notification messages are used. Most of the flows in this section identify the notifications being sent to SOA(s) and sometimes list out the data being sent in the notification including the TN and Subscription Version (SV) ID information. The actual formats of the TN and SV ID information being sent in notifications to SOAs depends on the interface type (CMIP vs. XML) as well as the TNs being operated on (single TN, TN range) and whether or not the SV IDs associated with the TN range are consecutive. When TN and SV ID information is listed as part of a notification being sent to SOA, it will represent one of the following:

* Notification associated with a CMIP single TN or TN range request, XML TN range request, and for TN range requests, the SV IDs associated with a TN range are consecutive (can be represented by a start/end SV ID range):
  + start TN
  + end TN (will be the same as the start TN for a notification associated with a CMIP single TN request)
  + start SV ID
  + end SV ID (will be the same as the start SV ID for a notification associated with a CMIP single TN request)
* Notification associated with an XML single TN request:
  + TN
  + SV ID
* Notification associated with a CMIP TN Range request where the SV IDs associated with the TN Range are non-consecutive:
  + start TN
  + end TN
  + list of SV IDs
* Notification associated with an XML TN Range request where the SV IDs associated with the TN Range are non-consecutive:
  + list of {TN, SV ID} pairs

In the flows defined below, if the flow includes notifications that identify TN/SV, the flows will define this as TN information and SV ID information and the reader should refer to this section to understand the actual TN and SV ID information sent.

**B.5.1 Subscription Version Create/Activate Scenarios**

[snip]

Remove references to single TN notications that are being sunset in the flows. In particular, remove references to the following notifications:

* subscriptionVersionNewSP-CreateRequest
* subscriptionVersionNewSP-FinalCreateWindowExpiration
* subscriptionVersionOldSP-ConcurrenceRequest
* subscriptionVersionOldSPFinalConcurrenceWindowExpiration
* subscriptionVersionCancellationAcknowledgeRequest
* subscriptionVersionDonorSP-CustomerDisconnectDate
* Object Creation for subscriptionVersionNPAC objects
* Attribute Value Change for subscriptionVersionNPAC objects
* subscriptionVersionStatusAttributeValueChange

**subscriptionVersionNewSP-CreateRequest notification** (T1 Timer expiration for New SP)

**Flow B.5.1.4.4 – SubscriptionVersion Create: No Create Action from the New Service Provider SOA After Concurrence Window**

[snip]

NPAC SMS does not receive a response from the new service provider SOA within “Service Provider Concurrence Window” for the pending subscriptionVersionNPAC created by the old service provider SOA.

1. NPAC SMS sends the new service provider a subscriptionVersionRangeNewSP-CreateRequest M-EVENT-REPORT. For the XML interface, VNIN – SvNewSpCreateNotification.
2. The new service provider SOA returns an M-EVENT-REPORT confirmation to the NPAC SMS. For the XML interface, NOTR – NotificationReply.

[snip]

**subscriptionVersionNewSP-FinalCreateWindowExpiration** (T2 timer expiration for New SP)

**Flow B.5.1.4.3** **Subscription Version Create: Failure to Receive Response from New SOA**

[snip]

NPAC SMS receives no concurrence from the new service provider SOA in “Service Provider Concurrence Window” for the pending subscriptionVersionNPAC created by the old service provider SOA.

1. NPAC SMS notifies the old service provider, if they support the notification according to their NPAC Customer No New SP Concurrence Notification Indicator in their service provider profile on the NPAC SMS, of the expiration of the final create window where the new service provider did not send up a Create action for this subscription version a subscriptionVersionRangeNewSP-FinalCreateWindowExpiration M-EVENT-REPORT. For the XML interface, VNFN – SvNewSpFinalCreateWindowExpirationNotification.
2. The old service provider SOA returns an M-EVENT-REPORT confirmation to the NPAC SMS. For the XML interface, NOTR – NotificationReply.
3. NPAC SMS notifies the new service provider, if they support the notification according to their NPAC Customer No New SP Concurrence Notification Indicator in their service provider profile on the NPAC SMS, of the expiration of the final create window where the new service provider did not send up a Create action for this subscription version a subscriptionVersionRangeNewSP-FinalCreateWindowExpiration M-EVENT-REPORT. For the XML interface, VNFN – SvNewSpFinalCreateWindowExpirationNotification.
4. The new service provider SOA returns an M-EVENT-REPORT confirmation to the NPAC SMS*. For the* XML interface, NOTR – NotificationReply.

[snip]

**subscriptionVersionOldSP-ConcurrenceRequest** (T1 timer expiration for Old SP)

**Flow B.5.1.4.1** **SubscriptionVersion Create: No Create Action from the Old Service Provider SOA After Concurrence Window**

[snip]

NPAC SMS does not receive a response from the old service provider SOA within “Service Provider Concurrence Window” for the pending subscriptionVersionNPAC created by the new service provider SOA.

1. NPAC SMS sends the old service provider a subscriptionVersionRangeOldSP-ConcurrenceRequest M-EVENT-REPORT. For the XML interface, VOIN – SvOldSpConcurrenceRequestNotification.
2. The old service provider SOA returns an M-EVENT-REPORT confirmation to the NPAC SMS. For the XML interface, NOTR – NotificationReply.

[snip]

**subscriptionVersionOldSPFinalConcurrenceWindowExpiration** (T2 timer expiration for Old SP)

**Flow B.5.1.4.2** **SubscriptionVersion Create: No Create Action from the Old Service Provider SOA After Final Concurrence Window**

[snip]

NPAC SMS does not receive a response from the old service provider SOA within “Service Provider Final Concurrence Window” for the pending subscriptionVersionNPAC created by the new service provider SOA.

1. NPAC SMS sends the old service provider a subscriptionVersionRangeOldSPFinalConcurrenceWindowExpiration   
   M-EVENT-REPORT. For the XML interface, VOFN – SvOldSpFinalConcurrenceWindowExpirationNotification.
2. The old service provider SOA returns an M-EVENT-REPORT confirmation to the NPAC SMS. For the XML interface, NOTR – NotificationReply.

If the old service provider SOA responds with a valid   
M-ACTION or M-SET prior to activation by the new service provider, the subscription version will be updated.

1. NPAC SMS sends the new service provider, if they support the notification according to their Subscription Version Old SP Final Concurrence Timer ExpirationNotification priority setting, of the expiration of the final concurrence window where the old service provider did not send up a Create action for this subscription version a subscriptionVersionRangeOldSPFinalConcurrenceWindowExpiration M-EVENT-REPORT. For the XML interface, VOFN – SvOldSpFinalConcurrenceWindowExpirationNotification.
2. The new service provider SOA returns an M-EVENT-REPORT confirmation to the NPAC SMS. For the XML interface, NOTR – NotificationReply.

[snip]

**subscriptionVersionCancellationAcknowledgeRequest** (Cancel T1 timer expires)

**Flow B.5.3.2** **SubscriptionVersionCancel: No Acknowledgment from a SOA**

[snip]

NPAC SMS is waiting for the cancellation acknowledgments from both service provider SOAs.

1. The old service provider SOA sends a subscriptionVersionOldSP-CancellationAcknowledge M-ACTION to the NPAC SMS lnpSubscriptions object. This acknowledges the cancellation of the subscriptionVersionNPAC with a status of cancel-pending. For the XML interface, CANQ – CancelRequest.

Note: When the Service Provider supports Application Level Errors (SOA Application Level Errors Indicator set to TRUE in their Service Provider Profile), the SOA will utilize the subscriptionVersionOldSP-CancellationAcknowledgeWithErrorCode ACTION that supports detailed error codes. The NPAC will provide an M-ACTION response based on the submitted message.

NPAC SMS sets the subscriptionOldSP-CancellationTimeStamp and subscriptionModifiedTimeStamp in the subscriptionVersionNPAC object.

1. NPAC SMS replies to the M-ACTION with either a success or failure and failure reasons. If the action fails, no modifications are applied and processing stops. For the XML interface, CANR – CancelReply.

The NPAC SMS waits for the cancellation acknowledgment from the new service provider SOA. No reply is received after a tunable period.

1. NPAC SMS issues a subscriptionVersionRangeCancellationAcknowledgeRequest M-EVENT-REPORT to the unresponsive new service provider SOA. For the XML interface, VCAN – SvCancelAckNotification.
2. The new service provider SOA returns an M-EVENT-REPORT confirmation to the NPAC SMS. For the XML interface, NOTR – NotificationReply.

[snip]

**subscriptionVersionDonorSP-CustomerDisconnectDate**

**Flow B.4.4.24 - Number Pool Block De-Pool Successful Broadcast of Subscription Version and Number Pool Block Deletes**

[snip]

1. NPAC SMS sends the M-DELETE for the number pool block object to the Local SMS. For the XML interface, PBDD – NpbDeleteDownload.
2. Local SMS respond successfully to the M-DELETE. For the XML interface, DNLR – DownloadReply.

NPAC SMS waits for all the successful responses and retries as necessary.

NPAC SMS receives all successful responses.

NPAC SMS updates the numberPoolBlock by setting the numberPoolBlockStatus to ‘old’ and setting the numberPoolBlockModifiedTimeStamp to the current date and time. The numberPoolBlockDisconnectCompleteTimeStamp is set when the first successful response is received.

1. NPAC SMS sends subscriptionVersionRangeDonorSP-CustomerDisconnectDate notification to the donor service provider SOA that the subscription version is being disconnected with the customer disconnect date. For the XML interface, VCDN – SvCustomerDisconnectDateNotification.
2. The donor service provider SOA confirms the M-EVENT-REPORT. For the XML interface, NOTR – NotificationReply.

[snip]

Make similar changes concerning subscriptionVersionDonorSP-CustomerDisconnectDate notifications in the following Flows:

* B.4.4.36 – Number Pool Block De-Pool Successful Broadcast of Subscription Version and Number Pool Block Deletes for Pseudo-LRN – Step 3
* B.5.4.1.1 – SubscriptionVersion Immediate Disconnect (continued) – Step 3
* B5.4.7.1 – SOA Initiates Successful Disconnect Request of Ported Pooled TN – Step 3
* B.5.4.7.14 - Subscription Version Immediate Disconnect of a Contaminated Pooled TN Prior to Block Activation (after Effective Date) – Step 3
* B5.4.8 - SubscriptionVersion Disconnect of Pseudo-LRN SV – Step 3

**Object Creation for subscriptionVersionNPAC Objects:**

**Flow B.5.1.1 -** **Subscription Version Create by the Initial SOA (Old Service Provider)**

[snip]

1. If the M-ACTION was successful, the NPAC SMS issues a subscriptionVersionRangeObjectCreation M-EVENT-REPORT containing the following attributes to old service provider SOA of subscriptionVersionNPAC creation:

subscriptionVersionID

subscriptionTN

subscriptionOldSP

subscriptionNewCurrentSP

subscriptionOldSp-DueDate

subscriptionOldSP-Authorization

subscriptionOldSP-AuthorizationTimeStamp

subscriptionStatusChangeCauseCode - (if subscriptionOldSP-Authorization set to false)

subscriptionVersionStatus

subscriptionVersionConflictTimeStamp - (if subscriptionOldSP-Authorization set to false)

subscriptionTimerType – if supported by the Service Provider SOA

subscriptionBusinessType – if supported by the Service Provider SOA

subscriptionOldSPMediumTimerIndicator – if support by the Service Provider SOA

The TN and SVID are the TN and SVID of the first TN in the range or list. For the XML interface, VOCN – SvObjectCreationNotification.

1. Old service provider SOA responds by sending an M-EVENT-REPORT confirmation back to the NPAC SMS. For the XML interface, NOTR – NotificationReply.
2. If the M-ACTION was successful, the NPAC SMS issues a subscriptionVersionRangeObjectCreation M- EVENT-REPORT to new service provider SOA of subscriptionVersionNPAC creation. For the XML interface, VOCN – SvObjectCreationNotification.

[snip]

Make similar changes concerning objectCreation notifications in the following Flows:

* B.5.1.2 - Subscription Version Create by the Initial SOA (New Service Provider) – Steps 3 and 5
* B.5.1.11 - Subscription Version Create for Intra-Service Provider Port – Step 3

**Attribute Value Change for subscriptionVersionNPAC objects**

**Flow B.5.1.3 - Subscription Version Create by Second SOA (New Service Provider)**

[snip]

1. If the M-ACTION was successful, the NPAC SMS issues a subscriptionVersionRangeAttributeValueChange M-EVENT-REPORT with the following attributes to the old service provider when the subscriptionNewSP-DueDate changes value. For the XML interface, VATN – SvAttributeValueChangeNotification.

subscriptionNewSP-DueDate

subscriptionNewSP-CreationTimeStamp

subscriptionNewSPMediumTimerIndicator – if supported by the Service Provider SOA

1. Old service provider SOA issues M-EVENT-REPORT confirmation. For the XML interface, NOTR – NotificationReply.
2. If the M-ACTION was successful, the NPAC SMS issues a subscriptionVersionRangeAttributeValueChange M-EVENT-REPORT to the new service provider for all attributes updated from the preceding list of modifiable attributes in addition to the following: For the XML interface, VATN – SvAttributeValueChangeNotification.

subscriptionNewSP-DueDate

subscriptionNewSP-CreationTimeStamp

subscriptionNewSPMediumTimerIndicator – if supported by the Service Provider SOA

1. New service provider SOA issues M-EVENT-REPORT confirmation. For the XML interface, NOTR – NotificationReply.

[snip]

Make similar changes concerning subscription version Attribute Value Change notifications in the following Flows:

* B.5.1.4 - Subscription Version Create by Second SOA (Old Service Provider) with Authorization to Port – Steps 3 and 5
* B5.2.3 - Subscription Version Modify Prior to Activate Using M-ACTION – steps 3 and 5
* B5.2.4 - Subscription Version Modify Prior to Activate Using M-SET – steps 3 and 5
* B.5.3.2 - Subscription Version Cancel: No (Cancel) Acknowledgement from a SOA – steps 9 and 11
* B.5.5.1 - Subscription Version Conflict by the NPAC SMS – steps 5 and 7
* B.5.5.1.1 - Subscription Version Conflict Resolution by the NPAC SMS – steps 5 and 7
* B.5.5.2 - Subscription Version Conflict Removal by the New Service Provider SOA – steps 7 and 9
* B.5.5.3 - Subscription Version Conflict: No Resolution – steps 5 and 7
* B.5.5.4 - Subscription Version Conflict Resolution by Old Service Provider Explicitly Not Authorizing (2nd Create) – steps 7 and 9
* B.5.5.5 - Subscription Version Conflict Removal by the Old Service Provider SOA – steps 7 and 9
* B8.3 – Mass Update – Step 5
* B.8.3.1 – Mass Update for a range of TNs that constains a Number Pool Block – Step 8

**subscriptionVersionStatusAttributeValueChange**

**Flow B.2.1.1 – SOA Initiated Audit (continued)**

[snip]

1. If any corrections were issued to any Local SMSs, the NPAC SMS will send a subscriptionVersionRangeStatusAttributeValueChange M-EVENT-REPORT to the service provider SOA of the subscriptionVersionStatus change and a list of failed Local SMSs (minus any recently updated Local SMSs that no longer contains a discrepancy). For the XML interface, VATN – SvAttributeValueChangeNotification.
2. The service provider SOA confirms the M-EVENT-REPORT. For the XML interface, NOTR – NotificationReply.
3. If any corrections were issued to any Local SMSs, the NPAC SMS will send a subscriptionVersionRangeStatusAttributeValueChange M-EVENT-REPORT to the old service provider SOA of the subscriptionVersionStatus change and a list of failed Local SMSs (minus any recently updated Local SMSs that no longer contains a discrepancy). For the XML interface, VATN – SvAttributeValueChangeNotification.
4. The old service provider SOA confirms the M-EVENT-REPORT. For the XML interface, NOTR –NotificationReply.

NPAC SMS has completed the audit comparisons and corrections.

[snip]

Make similar changes concerning subscription version Status Attribute Value Change notifications in the following Flows:

* B.2.4 - NPAC Initiated Audit – Steps 3 and 5
* B.2.7.2 - NPAC SMS Performs Audit Comparisons for a SOA initiated Audit including a Number Pool Block - Steps 3 and 5
* B.2.10.2 - NPAC SMS Performs Audit Comparisons for a SOA initiated Audit including a Pseudo-LRN Number Pool Block - Steps 3 and 5
* B.5.1.6 – Active Subscription Version Create on Local SMS – Steps 3, 5 and 7
* B.5.1.7 - SubscriptionVersionCreate M-CREATE Failure to Local SMS - Steps 2 and 4
* B.5.1.8 – SubscriptionVersion M-CREATE: Partial Failure to Local SMS - Steps 3 and 5
* B.5.1.9 – Create Subscription Version: Resend Successful to Local SMS Action - Steps 3 and 5
* B.5.1.10 – Subscription Version: Resend Failure to Local SMS - Steps 3 and 5
* B.5.1.12.1 – SubscriptionVersion for Inter-Service Provider Port-to-Original: Successful (continued) - Steps 1, 3 and 5
* B.5.1.12.2 – SubscriptionVersion for Intra-Service Provider Port-to-Original: Successful (continued) - Steps 1 and 3
* B.5.1.13.1 – Inter-Service Provider Subscription Version Port-to-Original: All LSMSs Fail (continued) - Steps 1, 3 and 5
* B.5.1.13.2 – Intra-Service Provider Subscription Version Port-to-Original: All LSMSs Fail (continued) - Steps 1 and 3
* B.5.1.14.1 – Inter-Service Provider Subscription Version Port-to-Original: Partial Failure (continued) - Steps 1, 3 and 5
* B.5.1.14.2 – Intra-Service Provider Subscription Version Port-to-Original: Partial Failure (continued) - Steps 1 and 3
* B.5.1.15.1 – Subscription Version Port-to-Original: Resend (continued) - Steps 1, 3 and 5
* B.5.1.16.1 – Subscription Version Port-to-Original: Resend Failure to Local SMS (continued) - Steps 1, 3 and 5
* B.5.1.17.3 – Successful Broadcast Complete NPAC SMS Updates for a Port-to-Original Request for a Pooled TN - Steps 1, 3 and 5
* B.5.1.17.5 – Updates to NPAC SMS after Failure of Port-to-Original Broadcast for a Pooled TN - Steps 1, 3 and 5
* B.5.1.17.7 – Partial-Failure Broadcast Complete NPAC SMS Updates of a Port-to-Original for a Pooled TN - Steps 1, 3 and 5
* B.5.1.17.10 – Updates to NPAC SMS after Successful Resend of Port-to-Original Request of a Pooled TN - Steps 1, 3 and 5
* B.5.1.17.11 – Subscription Version Create Port-to-Original of a Pool TN: Resend Failure to Local SMS - Steps 1, 3 and 5
* B.5.1.17.12 – Subscription Version Create Port-to-Original of a Pool TN: Resend Partial Failure to Local SMS - Steps 1, 3 and 5
* B.5.1.19 .1 – Active Pseudo-LRN SubscriptionVersion Create on Local SMS for single TN - Step 3
* B.5.2.1 – SubscriptionVersion Modify Active Version Using M-ACTION by a Service Provider SOA – Step 5
* B.5.2.2 – SubscriptionVersion Modify Active: Failure to Local SMS – Step 3
* B.5.2.3 - Subscription Version Modify Prior to Activate Using M-ACTION – steps 3 and 5
* B.5.2.4 - Subscription Version Modify Prior to Activate Using M-SET – steps 3 and 5
* B.5.2.5 – Subscription Version Modify Active: Resend Successful to Local SMS – Step 3
* B.5.2.6 – Subscription Version Modify Active: Resend Failure to Local SMS – Step 3
* B.5.3.1 – SubscriptionVersion Cancel by Service Provider SOA After Both Service Provider SOAs Have Concurred – steps 3 and 5
* B.5.3.1.1 - Subscription Version Cancel by Service Provider SOA After Both Service Provider SOAs Have Concurred (continued­) – steps 5 and 7
* B.5.3.2 - Subscription Version Cancel: No (Cancel) Acknowledgement from a SOA – steps 5 and 7
* B.5.3.3 - Subscription Version Cancels With Only One Create Action Received – steps 3 and 5
* B.5.3.4 - Subscription Version Cancel by Current Service Provider for Disconnect Pending Subscription Version – step 3
* B.5.3.5 - Un-Do Cancel-Pending Subscription Version Request – steps 3 and 5
* B.5.4.1.1 - SubscriptionVersion Immediate Disconnect (continued) – step 5
* B.5.4.2 - SubscriptionVersion Disconnect With Effective Release Date – step 3
* B.5.4.3 - SubscriptionVersion Disconnect: Failure to Local SMS – step 2
* B.5.4.4 - SubscriptionVersion Disconnect: Partial Failure to Local SMS – step 2
* B.5.4.5 - Subscription Version Disconnect: Resend Successful to Local SMS – step 3
* B.5.4.6 - Subscription Version Disconnect: Resend Failure to Local SMS – step 3
* B.5.4.7.2 - Successful Broadcast of Disconnect for a Ported Pooled TN After Block Activation – step 3
* B.5.4.7.3 - Subscription Version Disconnect With Effective Release Date – step 3
* B.5.4.7.5 - Subscription Version Disconnect for a Ported Pooled TN Broadcast Failure NPAC SMS Updates – step 1
* B.5.4.7.7 - Subscription Version Disconnect of a Ported Pooled TN Partial Failure Broadcast NPAC SMS Updates – step 1
* B.5.4.7.9 - Subscription Version Disconnect of a Ported Pooled TN Resend Successful NPAC SMS Updates – step 1
* B.5.4.7.11 - Subscription Version Disconnect of a Ported Pooled TN Resend Failure NPAC SMS Updates – step 1
* B.5.4.7.13 - Subscription Version Disconnect of a Ported Pooled TN Resend Partial Failure Broadcast NPAC SMS Updates – step 1
* B.5.4.7.14 - Subscription Version Immediate Disconnect of a Contaminated Pooled TN Prior to Block Activation (after Effective Date) – step 7
* B.5.4.8 - SubscriptionVersion Disconnect of Pseudo-LRN SV – step 5
* B.5.5.1 - Subscription Version Conflict by the NPAC SMS – steps 1 and 3
* B.5.5.1.1 - Subscription Version Conflict Resolution by the NPAC SMS – steps 1 and 3
* B.5.5.2 - Subscription Version Conflict Removal by the New Service Provider SOA – steps 3 and 5
* B.5.5.3 - Subscription Version Conflict: No Resolution – steps 1 and 3
* B.5.5.3.1 – Subscription Version Conflict: No Conflict Resolution (cont.) – steps 1 and 3
* B.5.5.4 - Subscription Version Conflict Resolution by Old Service Provider Explicitly Not Authorizing (2nd Create) – steps 3 and 5
* B.5.5.5 - Subscription Version Conflict Removal by the Old Service Provider SOA – steps 3 and 5
* B.7.2 - Sequencing of Events on Initialization/Resynchronization of Local SMS
* B.7.2.1 - Sequencing of Events on Initialization/Resynchronization of Local SMS using SWIM – steps 13 and 15
* B.8.3 – Mass Update – Step 3
* B.8.3.1 – Mass Update for a range of TNs that constains a Number Pool Block – Step 5

**Changes for 3.4 – Sunset the ability for SOA and LSMS to not support Cause Code 2 (automatic conflict from cancellation notification)**

**Changes for 3.5 – Sunset the ability for SOA to not support receiving AVC when an SV transitions from Cancel-Pending to Conflict due to expiration of T2**

**FRS Changes:**

Section 3.1.2 on NPAC Customer Data, Table 3-2, modify the “Service Provider SOA Supports Cancel-Pending-to-Conflict Cause Code” attribute as follows:

[snip]

|  |  |  |  |
| --- | --- | --- | --- |
| Service Provider SOA Supports Cancel-Pending-to-Conflict Cause Code | B | √ | A Service Provider Boolean that defines whether a SOA NPAC Customer supports a Conflict message that uses the Cancel-Pending-to-Conflict Cause Code.  Value is always TRUE and modification is not allowed. |

[snip]

In **Section 6.7**, update requirements concerning this customer tunable:

[snip]

RR6-205 Service Provider SOA Cancel-Pending-to-Conflict Cause Code Tunable

NPAC SMS shall provide a Service Provider SOA Cancel-Pending-to-Conflict Cause Code tunable parameter which defines whether a SOA supports a Conflict message that uses the Cancel-Pending-to-Conflict Cause Code. (previously NANC 138, Req 1.5, RR5-140)

**~~NOTE:~~** ~~If True on a query and notification reply the NPAC SMS returns the cancel-pending-to- conflict cause code value. If False on a query the NPAC SMS does not return the cancel- pending-to-conflict cause code value. On a notification the NPAC SMS inserts a cause code value of “1” instead of the “cancel-pending-to-conflict” cause code value.~~

RR6-206 Service Provider SOA Cancel-Pending-to-Conflict Cause Code Tunable Default

NPAC SMS shall default the Service Provider SOA Cancel-Pending-to-Conflict Cause Code tunable parameter to TRUE and shall only allow a value of TRUE. (previously NANC 138, Req 2, RR5-141; NANC 460)

RR6-207 Service Provider SOA Cancel-Pending-to-Conflict Cause Code Tunable Modification

NPAC SMS shall prohibit NPAC Personnel, via the NPAC Administrative Interface, from modifying the Service Provider SOA Cancel-Pending-to-Conflict Cause Code tunable parameter to any value other than TRUE. (previously NANC 138, Req 3, RR5-142; NANC 460)

RR6-208 Service Provider LSMS Cancel-Pending-to-Conflict Cause Code Tunable

NPAC SMS shall provide a Service Provider LSMS Cancel-Pending-to-Conflict Cause Code tunable parameter which defines whether a LSMS supports a SV query response message that uses the Cancel-Pending-to-Conflict Cause Code. (previously NANC 138)

**~~NOTE:~~** ~~If True the NPAC SMS returns the cancel-pending-to-conflict cause code value on a query request. If False the NPAC SMS does not return the cancel-pending-to-conflict cause code value on a query.~~

RR6-209 Service Provider LSMS Cancel-Pending-to-Conflict Cause Code Tunable Default

NPAC SMS shall default the Service Provider LSMS Cancel-Pending-to-Conflict Cause Code tunable parameter to TRUE and shall only allow a value of TRUE. (previously NANC 138; NANC 460)

RR6-210 Service Provider LSMS Cancel-Pending-to-Conflict Cause Code Tunable Modification

NPAC SMS shall prohibit NPAC Personnel, via the NPAC Administrative Interface, from modifying the Service Provider LSMS Cancel-Pending-to-Conflict Cause Code tunable parameter to any value other than TRUE. (previously NANC 138)

[snip]

**IIS/EFD Changes: none**

**Changes for 7.1 – Sunset BDD Response Files**

**FRS Changes:**

Remove **Section 3.11.7** on Bulk Data Download Response Files and all of its requirements from the FRS.

[snip]

**3.11.7 Bulk Data Download Response Files**

With the implementation of NANC Change Order 460, Bulk Data Download Response Files are no longer supported by the NPAC SMS.

RR3-325 File Name Format for Service Provider BDD Response File

DELETED

RR3-326 File Contents for Service Provider BDD Response File

DELETED

RR3-327 Complete File Processing for Service Provider BDD Response File

DELETED

RR3-328 Processing of the Service Provider BDD Response File for Subscription Versions

DELETED

RR3-329 Removing a Service Provider from a Subscription Version Failed SP List

DELETED

RR3-330 Processing of the Service Provider BDD Response File for Number Pooling Blocks

DELETED

RR3-331 Removing a Service Provider from a Number Pooling Block Failed SP List

DELETED

RR3-332 Service Provider Not Found on the Failed SP List

DELETED

RR3-333 Validation of SPID in the Service Provider BDD Response File Against SPID of the Secure FTP Directory

DELETED

**IIS/EFD Changes: none**

**Changes for 8.2 – Sunset Data Integrity Sample (Audit and report)**

**FRS Changes:**

Section 1.2.7 on Audit Request Functionality – remove last paragraph.

[snip]

**1.2.7** **Audit Request Functionality**

An audit function will be necessary for troubleshooting customer problems and also as a maintenance process to ensure Subscription Version data integrity across the entire LNP network. Audits will be concerned with the process of comparing the NPAC SMS view of the LNP network’s Subscription Version data with one or more of the Service Provider’s views of its network. In the case of “on demand” audits, audits may be initiated by any Service Provider who has reason to believe a problem may exist in another Service Provider’s network. These audits are executed via queries to the appropriate Service Provider’s network, and corrected via downloads to those same networks.

In addition, Local Service Providers will be responsible for comparing database extracts of Subscription data written to a Secure-FTP site(s) by the NPAC SMS with their own versions of the same Subscription data.

~~In a third scenario, the NPAC SMS will select a random sample of active Subscription Versions from its own database, then compare those samples to the representation of that same data in the various Local SMS databases. All three of the methods outlined above are designed to help ensure data integrity across the LNP network.~~

[snip]

Remove references to integrity audits in **Section 8.1** overview of Audit Administration.

[snip]

**8.1 Audit Administration**

An audit function will be necessary for troubleshooting a customer problem and also as a maintenance process to ensure data integrity across the entire LNP network. Audit will be concerned with the process of comparing the NPAC view of the LNP network with one or more of the Service Provider’s view of its network. In the case of “on demand” audits, audits may be initiated by any Service Provider who has reason to believe a problem may exist in another Service Provider’s network. Such audits are executed via queries to the appropriate Service Provider’s network, and corrected via downloads to those same networks. Requirements pertaining to these requirements are given in Sections 8.2 through 8.6.

Audits are designed to “sync up” the information contained in the various Local SMS databases with the content of the NPAC SMS database.

The local SMS will be responsible for comparing database extracts written to a Secure FTP site(s) by the NPAC SMS with its own version of that same data. Note that the Service Provider network may contain several network nodes designated for local number portability and may also choose to keep its own copy in its respective SMS.

[snip]

Remove **Section 8.7** on Database Integrity Sampling.

[snip]

8.7 Database Integrity Sampling

With the implementation of NANC Change Order 460, Database Inegrity Sampling is no longer supported by the NPAC SMS.

RR8-1 Random Sampling of Active Subscription Versions

DELETED

RR8-2.1 Data Integrity Sample Size - Tunable Parameter

DELETED

RR8-2.2 Data Integrity Sample Size - Tunable Parameter Modification

DELETED

RR8-2.3 Data Integrity Sample Size - Tunable Parameter Default

DELETED

RR8-3.1 Data Integrity Frequency - Tunable Parameter

DELETED

RR8-3.2 Data Integrity Frequency - Tunable Parameter Modification

DELETED

RR8-3.3 Data Integrity Frequency - Tunable Parameter Default

DELETED

[snip]

Modify requirement RX9-4 in **Section 9** on Reporting to remove references to integrity Audits.

[snip]

RX9-4 System Reports

NPAC SMS shall support the following system reports for NPAC system administration personnel using the NPAC Administrative Interface:

1. Overall CPU System Utilization
2. Storage Utilization
3. NPAC SMS Application Performance (SOA/LSMS Downloads per Second)
4. NPAC SMS Application Performance (SOA/LSMS Subscription Activation Time)
5. NPAC SMS-SOA Link Utilization
6. NPAC SMS-LSMS Link Utilization
7. \NPAC SMS Application Performance (SOA/LSMS Response Time)
8. NPAC SMS Application Performance (Interface Transaction Rate)
9. ~~NPAC SMS Application Performance (Provider SMS Database Sampling)~~

[snip]

Delete requirement RR9-1 in Section 9.

[snip]

RR9-1 Data Integrity Report – Database Sample Report

DELETED

[snip]

**IIS/EFD Changes: none**

**Changes for 9.3 – Sunset unused billing categories (like mass storage, audits, etc.)**

**FRS Changes:**

Remove the following requirements in **Chapter 11.2** concerning System Functionality for Billing.

[snip]

R11‑2 Generating Usage Measurements for NPAC Resources

DELETED

R11‑3 Generating Usage Measurements for Allocated Connections

DELETED

R11‑4 Generating Usage Measurements for Allocated Mass Storage

DELETED

[snip]

Modify the following requirements in **Chapter 11.2** concerning System Functionality for Billing.

[snip]

R11-9 Billing Report Types

NPAC SMS shall be capable of creating the following billing reports:

1. ~~Login Session Per Service Provider~~
2. ~~Allocated Mass Storage~~
3. Messages Processed by type (to include download data and data resent by request)
4. ~~Audits Requested and Processed~~
5. Requested Report Generation
6. ~~Service Establishment (to include Service Provider establishment, user login ID addition to the NPAC SMS, and mechanized Interface Activation)~~

[snip]

[snip]

R11-13 NPAC Personnel Billing Report Destination

NPAC SMS shall allow NPAC personnel to determine the output destination of the billing report. The destinations will include: on-line (on screen), printer, file~~, or FAX~~. The default selection is on-line.

[snip]

**IIS/EFD Changes: none**

**Changes for 10.1 – Clarify Requirements for Unused User ID disable period tunable/feature**

**FRS Changes:**

Modify Requirement R7-5.1 and add a new requirement immediately following R7-5.1.

[snip]

R7‑5.1 Userids, Unused - Disabling

NPAC SMS shall disable userids after a period of time during which the userId has not been used.

~~Note: A User can access their disabled account using their old password, and reset to a new password, in order to reactivate their account. A User attempting to login to an account that has~~ ~~been disabled will only have access to the password change screen where they will be required to change their password to continue. Until reactivated, resetting to a new password is the only accessible functionality for the account.~~

**RR7-20 Non-use Disabled UserId Reinstatement**

For disabled userIds that were disabled for non-use (**R7-5.1**), NPAC SMS shall only allow a user to access password change functionality. The NPAC SMS shall accept the current password for disabled userIds only for the purpose of changing passwords. If the password is changed successfully for a disabled userId, the NPAC SMS will activate the disabled userId.

[snip]

**IIS/EFD Changes: none**