**Origination Date:** 02/10/17

**Originator:** iconectiv

### Change Order Number: NANC 489

**Description:** IIS/EFD Doc-Only Clarifications

**Functional Backwards Compatible:** Yes

**IMPACT/CHANGE ASSESSMENT**

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

Documentation updates.

**Description of Change:**

Changes detailed below.

IIS:

NPAC SMS (changed text in yellow highlights)

#### Association Functions

The Association Function(s) must be specified on the initial association request (AARQ PDU). The following table lists the possible Association Functions that can be specified for each of the Association Request Initiators and the associated bit mask value:

Exhibit 135 Association Functions

| **Association Request Initiator**  **Association Function** | **SOA** | **Local SMS** |
| --- | --- | --- |
| **SOA Management (Audit and Subscription Version)**  **Classes:**  **lnpNPAC-SMS**  **lnpSubscriptions**  **numberPoolBlock**  **numberPoolBlockNPAC**  **subscriptionAudit**  **subscriptionVersion**  **subscriptionVersionNPAC** | 0x01 |  |
| **Service Provider and Network Data Management**  **Classes:**  **lnpNetwork**  **lnpNPAC-SMS**  **lnpServiceProvs**  **lsmsFilterNPA-NXX**  **serviceProv**  **serviceProvLRN**  **serviceProvNetwork**  **serviceProv-NPA-NXX**  **serviceProvNPA-NXX-X** | 0x02 | 0x04 |
| **LSMS Network and Subscription Data Download**  **Classes:**  **lnpNetwork**  **lnpNPAC-SMS**  **lnpSubscriptions** |  | 0x08 |
| **SOA Network Data Download**  **Classes:**  **LnpNetwork**  **lnpNPAC-SMS** | 0x20 |  |

| **Association Request Initiator**  **Association Function** | **SOA** | **Local SMS** |
| --- | --- | --- |
| **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 association 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.

#### Recovery

The SOA and Local SMS associations [snip]

During the recovery processing, other messages [snip]

While recovering subscription data, the NPAC SMS [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~~ soa management association function (~~networkDataMgmt~~ soaMgmt). 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).

Service Provider and Notification recovery requests [snip]

NPAC data may be recovered in three ways, [snip]

EFD, Error Codes

|  |  |  |  |
| --- | --- | --- | --- |
| 5009 | LrnId is required if no customer id, on delete lrn action. | 2  6 | accessDenied\_er (CMIP)  invalidAttributeValue\_er (XML) |
| 5015 | Npa required for delete if no NpaNxxId. | 2  6 | accessDenied\_er (CMIP)  invalidAttributeValue\_er (XML) |
| 5016 | Nxx required for delete if no NpaNxxId. | 2  6 | accessDenied\_er (CMIP)  invalidAttributeValue\_er (XML) |
| 5017 | Lrn required for delete if no lrnId. | 2  6 | accessDenied\_er (CMIP)  invalidAttributeValue\_er (XML) |
| 5073 | Delete denied due to associated NPA-NXX-Xs. | 2  6 | accessDenied\_er (CMIP)  invalidAttributeValue\_er (XML) |

EFD, Flow B.5.1.9, Create Subscription Version: Resend Successful to Local SMS Action

NPAC SMS sets the subscriptionVersionStatus to “active” in the subscriptionVersionNPAC object, subscriptionFailedSP-List, subscriptionBroadcastTimeStamp, and the subscriptionModifiedTimeStamp.

EFD, Flow B.5.1.17.6, Port-to-Original Activation Partial Failure Broadcast of a Pooled TN

Step 1 and step 2, picture, reverse arrow direction.

EFD, Flow B.5.1.17.9, Successful Resend Broadcast of a Port-to-Original of a Pooled TN

Step 1 and step 2, picture, reverse arrow direction.