**Origination Date:** 03/30/2005

**Originator:** Neustar

### Change Order Number: NANC 403

**Description:** Only allow Recovery Messages to be sent during Recovery

**Functional Backwards Compatible:** Yes

**IMPACT/CHANGE ASSESSMENT**

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

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

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

**Business Need**

The current documentation does NOT specifically state that ALL recovery messages should only be sent to the NPAC during recovery (it is currently indicated for notifications and SWIM data and Service Provider Data).  This change order will clarify the documentation to include ALL data.

This will require some operational changes for Service Providers that utilize Network Data and/or Subscription Data and/or Number Pool Block Data recovery while in normal mode.

**Description of Change:**

Modify the FRS, IIS, and GDMO as follows.

FRS Requirements:

Currently, the IIS restricts Service Provider Data, Notification Data, and SWIM-based recovery requests to only occur when the CMIP association is in Recovery Mode and if these types of recovery requests occur when the association is in Normal Mode, NPAC aborts the association. The FRS has a requirement that identifies Service Provider Data can only be recovered when the association is in Recovery Mode. To bring the FRS in alignment with the IIS, requirements will be added to indicate that notification data and SWIM-based recovery requests can only be made in recovery mode. Additional requirements will be provided indicating that the other forms of data (network, subscription version, number pool block data) can only be recovered when the association is in Recovery Mode, but will be controlled by a Regional Tunable parameter. Note – the existing recovery mechanism for Service Provider, Notification, and SWIM based recovery requests will not be changed to be controlled by a tunable (that is, they can not be tuned to be accepted when an association is in Normal Mode).

Here is the current Service Provider Data Recovery Requirement that will be used as the basis for the new Notification and SWIM-based requirements (a doc-only change).

RR6-136 Service Provider Data Recovery Only in Recovery Mode

NPAC SMS shall allow a SOA or LSMS to recover service provider data ONLY in recovery mode. (previously NANC 352, Req 2)

Req 1 Notification Data Recovery Only in Recovery Mode

NPAC SMS shall allow a SOA or LSMS to recover notification data ONLY in recovery mode.

Req 2 SWIM Recovery Only in Recovery Mode

NPAC SMS shall allow a SOA or LSMS to recover any data using SWIM ONLY in recovery mode.

**Req 3** **Recovery Restriction Tunable Parameter**

NPAC SMS shall provide a Regional Recovery Restriction in Recovery Mode Only tunable parameter which is defined as an indicator on whether or not the restriction of recovery requests for time-based and record-based network (NPA-NXX, LRN, NPA-NXX-X), subscription version, and number pool block data only is allowed while in recovery mode is supported by the NPAC SMS for a particular NPAC Region.

**Req 4** **Recovery Restriction Tunable Parameter Default**

NPAC SMS shall default the Regional Recovery Restriction in Recovery Mode Only tunable parameter to TRUE.

**Req 5** **Recovery Restriction Tunable Parameter Modification**

NPAC SMS shall allow NPAC Personnel, via the NPAC Administrative Interface, to modify the Regional Recovery Restriction in Recovery Mode Only tunable parameter.

Req 6 Network and Subscription Version and Number Pool Block Data Recovery Only in Recovery Mode

NPAC SMS shall allow a SOA or LSMS to recover network, subscription version and number pool block data ONLY in Recovery Mode when the regional Recovery Restriction Tunable Parameter is set to TRUE. When the the regional Recovery Restriction Tunable Parameter is set to FALSE, the NPAC SMS shall allow a SOA or LSMS to recover network, subscription version and number pool block data in Normal Mode or in Recovery Mode.

Appendix C: add the new tunable to Appendix C

|  |  |  |  |
| --- | --- | --- | --- |
| **Regional Recovery Restriction** | True | Boolean | True/False |
| Tunable that indicates whether or not Network Data, Subscription Version Data and Number Pool Block Data can only be recovered in Recovery Mode using time-based or record-based recovery for a particular NPAC Region. | | | |

IIS:

IIS, section 5.2.1.9, add the following text:

~~All~~ Service provider data, notification data, and SWIM-based recovery requests can only be sent to the NPAC when the SOA/LSMS is in recovery mode, otherwise ~~an error message is returned (failed)~~NPAC SMS aborts the association. If the Recovery Restriction Tunable Parameter is set to TRUE, then network, subscription version and number pool block data recovery requests can only be sent to the NPAC when the SOA/LSMS is in recovery mode, otherwise NPAC SMS aborts the association.

IIS, section 5.3.4, change the following text:

Service provider data, notification data, and SWIM-based recovery requests can only be sent to the NPAC when the SOA/LSMS is in recovery mode, otherwise NPAC SMS aborts the association. If the Recovery Restriction Tunable Parameter is set to TRUE, then network, subscription version and number pool block data recovery requests can only be sent to the NPAC when the SOA/LSMS is in recovery mode, otherwise NPAC SMS aborts the association.~~Service Provider and Notification~~  ~~All recovery requests can only be sent to the NPAC when the SOA/LSMS is in recovery mode, otherwise an error message is returned (failed).~~

GDMO:

lnpDownload action, add the following text in the behavior section:

Service provider data and SWIM-based recovery requests can only be sent to the NPAC when the SOA/LSMS is in recovery mode, otherwise NPAC SMS aborts the association. If the Recovery Restriction Tunable Parameter is set to TRUE, then network, subscription version and number pool block data recovery requests can only be sent to the NPAC when the SOA/LSMS is in recovery mode, otherwise NPAC SMS aborts the association.~~All recovery requests can only be sent to the NPAC when the SOA/LSMS is in recovery mode, otherwise an error message is returned (failed).~~