**Origination Date:** 5/7/19

**Originator:** iconectiv

### Change Order Number: NANC 542

**Description:** Retry Timer Intervals – Doc Only Change

**Functional Backwards Compatible:** Not Applicable

**IMPACT/CHANGE ASSESSMENT**

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 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**

The Industry, through a series of discussions (dating back approximately 20+ years), concluded that the appropriate retry and time interval would be 1x15 due to messages not lost on interface so retries are not necessitated. This has been the adopted methodology prior to Transition. Post Transition it was observed that at least one local system is not replicating the NPAC behavior and has chosen to continue to implement the original retry interval of 3x5. This does not take advantage of the reduced messaging. See also PIM 122

**Description of Change:**

1. Draft a Best Practice to reinforce the Industry recommended approach of utilizing a time interval of 1x15.
2. Modify the default values in Sections 5 and 6 of the FRS for the following 8 Retry Tunables
   1. Subscription Activation Retry Attempts
   2. Subscription Activation Retry Interval
   3. Subscription Disconnect Retry Attempts
   4. Subscription Disconnect Retry Interval
   5. Local SMS Retry Attempts
   6. Local SMS Retry Interval
   7. SOA Retry Attempts
   8. SOA Retry Interval
3. Modify the default values in Appendix C Table C-1 of the FRS of the following 10 retry tunables:
   1. Subscription Activation Retry Attempts
   2. Subscription Activation Retry Interval
   3. Subscription Modification Retry Attempts
   4. Subscription Modification Retry Interval
   5. Subscription Disconnect Retry Attempts
   6. Subscription Disconnect Retry Interval
   7. Local SMS Retry Attempts
   8. Local SMS Retry Interval
   9. SOA Retry Attempts
   10. SOA Retry Interval

[Snip]

**5.1.2 Subscription Administration Requirements**

**5.1.2.1 User Functionality**

**R5-60.5 Subscription Activation Retry Attempts - Tunable Parameter Default**

NPAC SMS shall default the Subscription Activation Retry Attemptstunable parameter to 1 time.

**R5-60.6 Subscription Activation Retry Interval - Tunable Parameter Default**

NPAC SMS shall default the Subscription Activation Retry Intervaltunable parameter to 15 minutes.

**R5-68.2 Disconnect Pending Subscription Version - Subscription Disconnect Retry Attempts - Tunable Parameter Default**

NPAC SMS shall default the Subscription Disconnect Retry Attemptstunable parameter to 1 time.

**R5-68.4 Disconnect Subscription Version - Subscription Disconnect Retry Interval - Tunable Parameter Default**

NPAC SMS shall default the Subscription Disconnect Retry Intervaltunable parameter to 15 minutes.

**6.6 Request Retry Requirements**

**6.6.1 CMIP Request Retry Requirements**

Note: This sub-section is a CMIP specific concept and applies only to the CMIP interface. For the XML interface, messages are retried until successful.

[Snip]

**RR6‑19 SOA Retry Attempts - Tunable Parameter Default**

NPAC SMS shall default the SOA Retry Attemptstunable parameter to 1 time.

**RR6‑20 SOA Retry Interval - Tunable Parameter Default**

NPAC SMS shall default the SOA Retry Intervaltunable parameter to 15 minutes.

**RR6‑26 LSMS Retry Attempts - Tunable Parameter Default**

NPAC SMS shall default the LSMS Retry Attemptstunable parameter to 1 time.

**RR6‑27 LSMS Retry Interval - Tunable Parameter Default**

NPAC SMS shall default the LSMS Retry Intervaltunable parameter to 15 minutes.

[Snip]

Appendix C. System Tunables

| **Communications Tunables** | | | |
| --- | --- | --- | --- |
| **Tunable Name** | **Default Value** | **Units** | **Valid Range** |
| **Subscription Activation Retry Attempts** | 1 | attempts | 1-10 |
| The number of times a new subscription version will be sent to a Local SMS which has not acknowledged receipt of the activation request. | | | |
| **Subscription Activation Retry Interval** | 15 | minutes | 1-60 |
| The delay between sending new Subscription Versions to a Local SMS that has not acknowledged receipt of the activation request. | | | |
| **Subscription Modification Retry Attempts** | 1 | attempts | 1-10 |
| The number of times a modified active subscription version will be sent to a Local SMS which has not acknowledged receipt of the modification request. | | | |
| **Subscription Modification Retry Interval** | 15 | minutes | 1-60 |
| The delay between sending modified active subscription versions to a Local SMS that has not acknowledged receipt of the modification request. | | | |
| **Subscription Disconnect Retry Attempts** | 1 | attempts | 1-10 |
| The number of times the NPAC SMS will resend a subscription disconnect message to an unresponsive Local SMS. | | | |
| **Subscription Disconnect Retry Interval** | 15 | minutes | 1-60 |
| The amount of time that shall elapse between subscription disconnect retries. | | | |
| **Local SMS Retry Attempts** | 1 | attempts | 1-10 |
| The default number of times the NPAC SMS will resend a message to an unresponsive Local SMS. | | | |
| **Local SMS Retry Interval** | 15 | minutes | 1-60 |
| The default delay between sending messages to an unresponsive Local SMS. | | | |
| **SOA Retry Attempts** | 1 | attempts | 1-10 |
| The default number of times the NPAC SMS will resend a message to an unresponsive SOA. | | | |
| **SOA Retry Interval** | 15 | minutes | 1-60 |