**Origination Date:** 3/31/07

**Originator:** NeuStar

### Change Order Number: NANC 420

**Description:** Doc-Only Change Order: FRS Updates

**Cumulative SP Priority, Average:** not rated, included

**Functional Backward Compatible:** YES

**IMPACT/CHANGE ASSESSMENT**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| FRS | IIS | GDMO | ASN.1 | **NPAC** | SOA | LSMS |
| Y | N | N | N | None | None | None |

**Business Need:**

Update the current documentation to be consistent and reflect the current behavior.

**Description of Change:**

Update the FRS.

**Requirements:**

1. Remove unnecessary page break in Table 0-1 Notation Key between RR and RX abbreviation description. Remove RR table entry described as “This is a requirement that was identified in a NPAC SMS release subsequent to 1.X.” – this description was erroneously added in version 3.0.0. The original RR description (last table entry), “This is a requirement that was identified as a new requirement for the system, during post-award meetings with the Illinois LCC.” – should remain (with correction of LCC to LLC).

2. Prepaid Wireless SV Type -- With the implementation of NANC 399 and SV Type, several placeholder values were set aside for future use. During the Mar ’07 LNPAWG mtg, it was agreed to begin using one of these placeholder values. In both the intro section (1.2.16) and the data model section (SV data model – table 3-6, and Number Pool Block data model – table 3-8), the text for “SV Type 4” should be replaced with “Prepaid Wireless”.

**added in** **Apr’08**

3. Text correction for the following requirement:

RR5-179 Create Inter-Service Provider PTO Subscription Version – New Service Provider Optional input data

NPAC SMS shall accept the following optional fields from NPAC personnel or the new Service Provider upon Subscription Version creation for an Inter-Service Provider port, when the Porting to Original flag is set to True.

New text should read:

RR5-179 Create Inter-Service Provider PTO Subscription Version – New Service Provider ~~Optional input~~ data attributes – Rejected

NPAC SMS shall ~~accept~~ reject an Inter-Service Provider Create Request that includes the following ~~optional fields~~ data attributes from NPAC personnel or the new Service Provider ~~upon Subscription Version creation for an Inter-Service Provider port~~, when the Porting to Original flag is set to True.

1. LRN
2. Class DPC
3. Class SSN
4. LIDB DPC
5. LIDB SSN
6. CNAM DPC
7. CNAM SSN
8. ISVM DPC
9. ISVM SSN
10. WSMSC DPC (if supported by the Service Provider SOA)
11. WSMSC SSN (if supported by the Service Provider SOA)
12. Porting to Original
13. Billing Service Provider ID
14. End-User Location - Value
15. End-User Location - Type
16. SV Type
17. Alternative SPID

4. Text correction for the following requirement:

RR5-180 Create “Intra-Service Provider Port” (PTO) Subscription Version – Current Service Provider Optional input data

NPAC SMS shall accept the following optional fields from NPAC personnel or the new Service Provider upon Subscription Version creation for an Inter-Service Provider port, when the Porting to Original flag is set to True.

New text should read:

RR5-180 Create “Intra-Service Provider Port (PTO) Subscription Version – Current Service Provider ~~Optional input~~ data attributes – Rejected

NPAC SMS shall ~~accept~~ reject an Intra-Service Provider Create Request that includes the following ~~optional fields~~ data attributes from NPAC personnel or the Current Service Provider ~~upon Subscription Version creation for an Inter-Service Provider port~~, when the Porting to Original flag is set to True.

1. LRN
2. Class DPC
3. Class SSN
4. LIDB DPC
5. LIDB SSN
6. CNAM DPC
7. CNAM SSN
8. ISVM DPC
9. ISVM SSN
10. WSMSC DPC (if supported by the Service Provider SOA)
11. WSMSC SSN (if supported by the Service Provider SOA)
12. Porting to Original
13. Billing Service Provider ID
14. End-User Location - Value
15. End-User Location - Type
16. SV Type
17. Alternative SPID

**added in** **Jan ’10**

5. SOA and LSMS separation in BDD – add requirements and Appendix E BDD table entries that define separate SOA and LSMS indicators for BDD files (existing behavior is unhighlighted, new behavior is highlighted):

1. BDD-SV File
   1. LSMS supports EDR
   2. LSMS supports WSMSC
   3. LSMS supports SV Type
   4. LSMS supports Optional parameters
   5. SOA supports WSMSC
   6. SOA supports SV Type
   7. SOA supports Optional parameters
2. BDD-NPB File
   1. LSMS supports WSMSC
   2. LSMS supports SV Type
   3. LSMS supports Optional parameters
   4. SOA supports WSMSC
   5. SOA supports SV Type
   6. SOA supports Optional parameters
3. BDD-Notifications File
   1. SOA supports SV Type
   2. SOA supports Optional parameters
4. BDD-Customer File
   1. SOA supports SP Type
   2. LSMS supports SP Type
   3. (if either SOA supports is TRUE, or LSMS supports is TRUE, the SP Type field is included in the BDD file)

**added in** **Feb ’10**

6. Add a new sub-section below 1.2.19 (Medium Timers for Simple Ports). Describe the various scenarios that affect the inclusion/exclusion of the medium timers in the actual notifications and in the BDD-notifications file.

**added in** **Mar ’10**

7. Text correction for the following requirement:

R5-74.4 Query Subscription Version - Output Data - LSMS

NPAC SMS shall return the following output data for a Subscription Version query request initiated over the NPAC SMS to Local SMS interface: (reference NANC 399)

1. [snip]
2. Timer Type (for SOAs that support Timer Type)
3. Business Hours Type (for SOAs that support Business Hours)
4. [snip]
5. Alt-End User Location Value (if supported by the Service Provider SOA)
6. Alt-End User Location Type (if supported by the Service Provider SOA)
7. Alt-Billing ID (if supported by the Service Provider SOA)
8. Voice URI (if supported by the Service Provider SOA)
9. MMS URI (if supported by the Service Provider SOA)
10. SMS URI (if supported by the Service Provider SOA)

New text should read:

R5-74.4 Query Subscription Version - Output Data - LSMS

NPAC SMS shall return the following output data for a Subscription Version query request initiated over the NPAC SMS to Local SMS interface: (reference NANC 399)

1. [snip]
2. ~~Timer Type (for SOAs that support Timer Type)~~
3. ~~Business Hours Type (for SOAs that support Business Hours)~~
4. [snip]
5. Alt-End User Location Value (if supported by the Service Provider ~~SOA~~LSMS)
6. Alt-End User Location Type (if supported by the Service Provider ~~SOA~~LSMS)
7. Alt-Billing ID (if supported by the Service Provider ~~SOA~~LSMS)
8. Voice URI (if supported by the Service Provider ~~SOA~~LSMS)
9. MMS URI (if supported by the Service Provider ~~SOA~~LSMS)
10. SMS URI (if supported by the Service Provider ~~SOA~~LSMS)

8. AR3.1 was previously deleted in section 3.1. To maintain consistency, it needs to be deleted from section 1.5.

9. In requirement R7-111.8, change “SP” to “Service Provider”.

10. In requirement R7-85.2, change “NPA Administative” to “NPAC Administative”.

11. In requirement R7-107.1, change “provide” to “provides”.

12. In requirement R7-108.2, change “acknowledgment” to “Service Providers’ acknowledgment”.

13. Add a row for Notification BDD Timer Type Business Hours Indicator to NPAC Customer Data Model to be consistent with requirements for Notification BDD Timer Type Business Hours tunable parameter.

**added in** **Apr ’10**

14. Update table 1-3 in section 1.2.15 for proper GMT offset for simple ports.

15. In requirement RN3-4.17, add note that the last NPA-NXX within an NPA Split is allowed to be removed.

16. In requirement RR3-27, clarify that it’s the messages that are filtered and sent over the SOA interface.

17. In requirement R7-56, change the heading from “Use of Encryption” to “User ID and System ID”.

18. In requirement R7-94.1, change the text from “a public key crypto system” to “an RSA public key crypto system”. This change makes R7-94.2 unnecessary, so it will be deleted.

19. In requirement R7-98, add note that heartbeat Notifications do not include Access Control.

20. Remove obsolete requirement R7-107.3, Paper copy of MD5 Hashes of Keys.

21. In requirement R7-107.4, update the text, “NPAC SMS shall support exchange of the list of keys ~~in person or~~ remotely.”

22. In requirement R7-107.5, update the text, “NPAC SMS shall convey the lists via ~~two different channels, diskette sent via certified mail, and a file send via Email or~~ Secure FTP using encryption mechanisms ~~if the keys are exchanged remotely~~.”

23. In requirement R7-108.1, update the text, “NPAC SMS shall support the Service Providers’ acknowledgment via ~~2 secure electronic forms, Email or~~ Secure FTP using encryption mechanisms.”

24. Remove obsolete requirement R7-109.1, Periodic Paper List of Public Keys NPAC Uses.

25. Remove obsolete requirement R7-109.2, Acknowledgment of Paper List of Public Keys.

26. In requirement R7-111.4, add note that the yearly change applies to the NPAC signing key.

**added in** **May ’10**

27. In requirement R7-97, update the bulleted text to be consistent with the bullets in R7-96.

* ~~The unique identity of the sender~~System ID
* System type
* User ID
* ~~The Generalized Time, corresponding to the issuance of the message~~Departure Time
* ~~A~~ sequence number
* ~~A key identifier~~Key ID
* Key list ID
* ~~The digital signature of the sender’s identity, Generalized Time and sequence number listed above~~Digital Signature

28. Remove obsolete requirement RR7-2, Modifying User Name.

29. Update Subscription BDD File field numbers in Appendix E.

**added in Jun ’10**

30. In BDD Response File requirements RR3-327, RR3-328, and RR3-330, update the note to explicitly define a “negative” response.

31. Re-organize BDD File overview text in Appendix E.

32. Add Download Reason to Data Model section (SV, NPA-NXX, LRN).

**added in Jul ’10**

33. Based on action item 060810-06 and discussion during the July meeting, pending-like PTO SVs should be added to the list of pending-like SVs that need to be cancelled prior to a SPID Migration. Update requirements RR3-259 and RR3-275.

**added in Oct ’10**

34. NPA-NXX Filter clarification. Since NPA-NXX Filters apply at the SPID level, text should indicate both SOA and LSMS (currently only indicates LSMS even though requirements also say “via the NPAC SMS to Local SMS interface and the SOA to NPAC SMS interface”). Update requirements RR3-5, RR3-6, RR3-7, RR3-8, RR3-9, RR3-692, RR3-693, RR3-694, RR3-696.

**added in Dec ’10**

35. Appendix E, BDD Files. Block Download File, clearly indicate that tunables “SOA supports WSMSC” and “LSMS supports WSMSC” will always be included in the Block BDD File. Notification Download File, consolidate paragraphs on attributes included in file, and clarify that inclusion is based on support at time of BDD file generation.

**added in Feb ’11**

36. NPAC Customer Data Model. Remove the row labeled “Service Provider LSMS Supports Cancel-Pending to Conflict Cause Code” as this is not a valid profile setting.

37. In requirement RR3-259, wording clarification on ‘pending-like’ Blocks, and separation of SVs versus Blocks.

38. Block BDD File. Add the missing URI fields, Voice URI, MMS URI, SMS URI. The placement is the same as the SV BDD File (i.e., in between Alt-Billing ID and Last Alternative SPID).

39. Notification BDD. Timer Type, Business Hours, and Medium Timer Indicators wording clarifications. Add missing Billing ID and End User fields, and renumber fields.

**added in Apr ’11**

40. Wireless timers. In Section 1.2.15, Time References in the NPAC SMS, correct the day references for Canada. Instead of Sunday-Saturday, should be Monday-Saturday.

**added in May ’11**

41. Appendix C, System Tunables. Correction to range of “Maximum Subscription Query” tunable. Production setting is 1000.

42. In requirement RR5-25.2, note clarification on ERD value (Note: If the Effective Release Date is not specified in the Disconnect Request from the current Service Provider, the Effective Release Date will be populated with the same value as the Customer Disconnect Date.).

43. Correction to #37 above, this new bullet point should be removed from RR3-259.

IIS:

No change required.

GDMO:

No change required.

ASN.1:

No change required.