

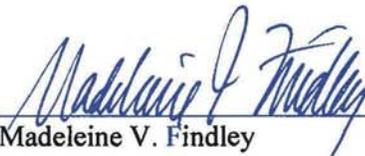
## CERTIFICATE OF SERVICE

I hereby certify that on November 13, 2013, I caused a true and correct copy of the foregoing to be served on the individuals below, by hand delivery or Federal Express and electronic mail.

*Via hand delivery & electronic mail:*  
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*Via FedEx & electronic mail:*  
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**Survey-2015-LNPA-Technical Requirements Document**  
**Survey Deadline: 4/22/2013 11:59:59 PM**

A survey is a simple way for a project sponsor to gather information about your company to determine the possibility of doing business. These surveys typically include general questions about the company, specifications of goods and services to be provided, expertise, and other questions specific to the sponsor. You have been invited to respond to this survey.

**Please note: Your response has been submitted to the sponsor. It is final and may not be edited.**

## 1. TRD OVERVIEW, INTRODUCTION, and FRS Section 1

**STATEMENT:**

### **TRD Introduction and Purpose**

Pursuant to the Telecommunications Act of 1996, the Federal Communications Commission (FCC) has adopted a succession of orders implementing Local Number Portability (LNP), which allows consumers to change service providers for telecommunications services at the same location without changing their telephone numbers. Currently, LNP is enabled in the seven United States former Regional Bell Operating Company (RBOC) service areas or regions, including their related Territories (each a "Region" and collectively, the "Regions") through seven databases, one in each Region, collectively referred to as the Number Portability Administration Center/Service Management System (NPAC/SMS). Each Regional database is operated and administered by a Local Number Portability Administrator (LNPA), neutral and independent from Telecommunications Carriers. A separate Master Agreement governs the operation and administration of the NPAC/SMS by the LNPA in each of the seven Regions and specifies the terms and conditions for providing NPAC/SMS services (referred to as the "Services").

All Master Agreements in all Regions are managed by the North American Portability Management LLC (NAPM LLC), and all Master Agreements in all Regions expire on June 30, 2015. The FCC has delegated authority to its advisory committee, the North American Numbering Council (NANC), working in consultation with the NAPM LLC, to implement a vendor selection process, for the next-generation NPAC/SMS in all Regions, to commence at the expiration of the current Master Agreements. This vendor selection process includes issuance of a Request For Information (RFI) and a subsequent Request For Proposal (RFP) and will culminate in the selection of the LNPA in each of the seven Regions. The purpose of the NANC is to advise the Commission and to make recommendations, reached through consensus, that foster efficient and impartial number administration. The NANC, a diverse body with consumer, state government, and industry representatives, has established an LNPA Selection Working Group (SWG) to oversee the selection process of the LNPA. See Order, WC Docket No. 09-109 and CC Docket No. 95-116, DA 11-883, (adopted May 16, 2011) for process information and the respective roles of the FCC, NANC, and NAPM LLC. During this process, options for replacement and/or enhancement of the current NPAC/SMS in all Regions may be considered.

### **1.1**

The purpose of the RFP is to provide each prospective RFP vendor (referred to as a Respondent or a Bidder) with an opportunity to demonstrate how its proposal satisfies the requirements of the RFP and will benefit Telecommunications Carriers and other qualified parties who will be Users of the NPAC/SMS and who rely upon the NPAC/SMS for the rating, routing, and billing of calls, law enforcement and other parties who may be granted certain limited and special access to NPAC/SMS data for other permissible purposes, and ultimately consumers. Each Respondent is instructed to answer all questions in as concise and

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complete a manner as possible, and in many instances, the Respondent is provided with an opportunity to elaborate on its answers.

The RFP includes this Technical Requirements Document (TRD) survey that identifies both the technical requirements describing the requisite technical capability of any proposal and the required obligations of an LNPA to administer the NPAC/SMS(s). Although great care has been taken to ensure the accuracy of the TRD and other reference documents, it is the Respondent's responsibility to ensure that any response to a specific NPAC/SMS technical requirement contained herein is based on the latest NPAC/SMS Functional Requirements Specification (FRS) and other reference documents as currently published and made available to the industry. FRS Rel 3.4.1 (a) was used in creating the TRD FRS sections. Each technical document (FRS, IIS, GDMO, ASN 1.0) has its own glossary, abbreviations, figures and tables.

The Local Number Portability Administration Working Group (LNPA WG) is a public industry forum that determines what technical capabilities are to be implemented in the NPAC/SMS. Information about this subcommittee of the NANC is found at <http://www.npac.com>. All respondents to the TRD survey are encouraged to attend the LNPA WG, during and after their submission(s).

The NAPM LLC has authorized one of its Advisory Committees, the Future of NPAC Subcommittee (hereafter referred to as the FoNPAC), to project manage the RFP process, including the solicitation and evaluation of responses to this TRD survey and to utilize the Ista® SmartSource SRM® Tool to gather, evaluate, and weigh all responses to this TRD survey as part of the LNPA selection process. The LNPA selection process is expected to conclude on or about September 2013.

Thank you in advance for your participation in the RFP process.

#### STATEMENT:

##### **Vendor TRD Response Instructions**

As part of responding to this TRD survey, Respondents will be **required** to respond to each requirement as indicated, as well as answer a series of questions in more detail. The detailed question section is at the end of this TRD survey called, "TRD Detailed Response."

1.2

- If the Respondent would like to explain any answers, please do so in the "TRD Detailed Response" section.
- If the Respondent would like to suggest improvements or additional enhancements, please do so in the "TRD Detailed Response" section.

**RFP survey Section 9 on Service Level Requirements supersedes any and all corresponding Service Level Requirements documented in this TRD survey or in the FRS.**

#### QUESTION:

##### **Backwards Compatibility Requirement**

In responding to the requirements in this TRD, all Respondents submitting bids **MUST** indicate and highlight any and all areas of functionality in their proposal that **will not** meet the Backwards Compatibility Requirements.

##### **Backward Compatibility Definitions**

There are three areas of Backwards Compatibility. These are defined below:

- Pure Backwards Compatibility - means that interface specification has NOT been

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ION.  
modified and therefore, no recompile is necessary. Also, no behavior on the NPAC/SMS has been modified to provide any change to the previously existing functionality accessible over the interface.

- Interface and Functional Backwards Compatibility - means that the interface may have been modified, however the changes are such that no action is required for the Service Provider to remain backward compatible. However, any new functionality is optionally implemented, and would require a recompile and possibly functional software changes by the Service Provider to access the newly defined features over the interface. Also, no changes may be made to any existing interface functionality that will require modifications to SOA and/or LSMS platforms.
- Re-Compile Only Backwards Compatibility - means that the interface has been modified, however the changes are such that only a recompile is necessary to remain backward compatible. Any new functionality is optionally implemented by accessing the newly defined features over the interface. Also, no NPAC/SMS software changes may be made to any existing interface functionality that will require source code modifications to SOA and/or LSMS platforms.

The objective is that all implementations resulting from this bidding process remain Interface and Functional Backwards Compatible, to the extent possible.

**Has the Respondent agreed to this requirement to indicate any and all areas of their responses that **WILL NOT** meet the "Backwards Compatibility Requirements "? Please answer "YES" or "NO".**

(Note: The FoNPAC will assume that all responses include backwards compatibility unless indicated otherwise.)

Yes

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QUESTION:

**Treatment of Subsequent NANC Change Orders**

By submitting a bid to this RFP, Respondent understands and agrees that any NANC Change Orders implemented in the NPAC/SMS subsequent to the submission of their bid, or scheduled for implementation prior to the turn-up of the next-generation NPAC/SMS, **MUST** be incorporated into their proposed NPAC/SMS platform and ready for implementation at turn-up.

Agree

1.5\*

QUESTION:

**TRD FRS Section 1: Introduction**

The FRS defines the functional requirements of the NPAC/SMS enabling LNP.

This introduction gives an overview of NPAC/SMS functionality. It is intended to prepare the Respondent for the detailed TRD FRS sections that follow. Consult the applicable detailed sections in the FRS or the NPAC/SMS Interoperable Interface Specification (IIS), Guidelines for the Definition of Managed Objects (GDMO), and Abstract Syntax Notation One (ASN.1) for more detailed information.

[www.napmlc.org/pages/NPACRFP/NPACRFP\\_refdocs.aspx](http://www.napmlc.org/pages/NPACRFP/NPACRFP_refdocs.aspx)

**Has the Respondent read, understood, and incorporated the FRS Section 1 concepts into Respondent's proposal?**

Yes

## 2. TRD FRS Section 2: BUSINESS PROCESS FLOWS

<b>2.1*</b>	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 2: Business Process Flows</b></p> <p>The process flows in Section 2 of the FRS indicate how the NPAC/SMS is used by the Service Providers in business processes associated with LNP. Specific requirements generated by the process flows are included in the appropriate FRS sections.</p> <p>The process flows supported by the NPAC/SMS are:</p> <ol style="list-style-type: none"> <li>1. Service Provisioning</li> <li>2. Service Disconnection</li> <li>3. Service Repair</li> <li>4. Conflict and Conflict Resolution</li> <li>5. Disaster Recovery and Backup</li> <li>6. Service Order Cancellation</li> <li>7. Audit Requests</li> <li>8. Report Requests</li> <li>9. Data Administration Requests</li> </ol> <p>Please note the following are the specific requirements listed in Section 2 of the FRS and are currently outside the scope of the NPAC/SMS:</p> <ol style="list-style-type: none"> <li>1. Interactions between Service Providers (CN2-1.1.1)</li> <li>2. Service Provider network change activities (CN2-1.3.1)</li> <li>3. Service Provider's network change validation activities (CN2-1.5.1)</li> <li>4. Service Provider's repair activities (CN2-3.3.1)</li> <li>5. Service Provider's conflict resolution activities (CN2.4.2.1)</li> </ol> <p><b>Has the Respondent read, understood, and incorporated these concepts into Respondent's proposal?</b></p>
	Yes

## 3. TRD FRS Section 3: NPAC DATA ADMINISTRATION

<b>3.1*</b>	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 3: NPAC Data Administration</b></p> <p>The NPAC/SMS manages the ported TN information associated with Service Provider portability for the LNP service. This section describes the high level requirements associated with managing ported telephone numbers from an operations perspective.</p> <p>TRD FRS Section 3: Sub Section 3.1:</p> <p>The required Data Models are described in detail in the FRS document Section 3.1:</p> <ol style="list-style-type: none"> <li>3.1.1: Data Type Legend</li> <li>3.1.2: NPAC Customer Data Model</li> <li>3.1.3: Subscription Version Data Model</li> <li>3.1.4: Network Data Model</li> </ol> <p><b>Does the Respondent's proposal adhere to these exact Data Models and has Respondent read, understood, and incorporated these concepts into Respondent's proposal?</b></p>
	Yes

<b>3.2*</b>	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 3: Sub Section 3.2: NPAC Personnel Functionality</b></p> <p>The FRS Section 3.2 requirements describe the functionality required by the NPAC/SMS to support the daily operation of the Regional LNP SMS support staff. These requirements define the high level functionality required by the system with the specifics of each requirement defined in more detail in FRS Sections 4 and 5.</p> <p><b>Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?</b></p> <p>R3-3: Create NPA-NXX data for a Service Provider  R3-6.2: Mass Update Filter Usage  R3-7.2: Administer Mass update on one or more selected Subscription Versions  R3-7.3: Mass Update Selection Criteria  R3-7.4: Mass Update Service Provider Id  R3-7.7: Mass Update Error Processing  R3-7.8: Mass Update Exception Report  RR3-254: Validation of LATA ID Errors on Mass Updates  R3-7.9: Mass Update Required Entry of Service Provider ID  R3-13: NPAC/SMS mass change update capability to the Local SMS  RR3-254: Validation of LATA ID Errors on Mass Updates  RR3-550: Mass Update Pending and Active Subscription Versions – DPC-SSN Field-level Data Validation  RR3-551: Mass Update Pending and Active Subscription Versions – Validation of DPC-SSNs for Mass Update  RR3-552: Mass Update Pending and Active Number Pool Blocks – DPC-SSN Field-level Data Validation  RR3-552.5: Mass Update Pending and Active Number Pool Blocks – Validation of DPC-SSNs for Mass Update  RR3-708: Mass Update - Notifications for Pseudo-LRN Updates</p>
Yes	

<b>3.2.1*</b>	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 3: Sub Section 3.2.1: Block Holder, Mass Update</b></p> <p>The FRS Section 3.2.1 requirements describe the functionality required by the NPAC/SMS to support Block Holder Mass Updates.</p> <p><b>Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?</b></p> <p>RR3-210: Block Holder Information Mass Update – Update Fields  RR3-211: Block Holder Information Mass Update – Block Intersection Rejection  RR3-212: Block Holder Information Mass Update – Block Status Validation  RR3-213: Block Holder Information Mass Update – Download to EDR Local SMS  RR3-214: Block Holder Information Mass Update – Download to non-EDR Local SMS  RR3-215: Block Holder Information Mass Update – Download of SVs of Type POOL to non-EDR Local SMS</p>
Yes	

	<p><b>STATEMENT:</b></p> <p><b>TRD FRS Section 3: Sub Section 3.2.2: Service Provider ID (SPID) Migration Update</b></p> <p>This FRS section defines how the NPAC/SMS supports modification of Service Provider ID</p>
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## 3.2.2

on Local Number Portability information. Two options are available, 1) an on-line self-service feature is available using the LTI that can be used by Service Provider Personnel optionally in lieu of spreadsheets submitted via e-mail to NPAC Personnel, and 2) an interface message enhancement allows NPA-NXX ownership changes to be sent via a CMIP message. NPAC Personnel generate Selection Input Criteria SPID Migration Update Request Files (SIC-SMURF) to all Service Providers (as a primary means of update by those that do not support the interface message to update their databases, and as a backup means of update for those that do support the interface message). Additionally, SIC-SMURFs are used even by Service Providers that support the interface message when the migration involves NPA-NXX-Xs and/or LRNs. SIC-SMURFs are placed in all Service Providers' Secure FTP sites at the beginning of a maintenance window; updates are performed independently off-line during the maintenance window by each Service Provider to its own databases.

### 3.2.2.1 \*

#### QUESTION:

#### TRD FRS Section 3: Sub Section 3.2.2.1: SPID Migration Updates and Processing

With functionality in NANC 323, SIC-SMURFs are generated by NPAC Personnel and distributed (via Secure FTP) to all Service Providers. SPID Migrations may be performed as defined in sections 3.2.2.2 and 3.2.2.3.

#### Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

- RR3-255: SPID Migration Update - OpGUI Entry
- RR3-256: SPID Migration Update - Generation of SIC-SMURF Files
- RR3-257: SPID Migration Update - NPAC/SMS Processing of Requested Data
- RR3-258: SPID Migration Update - Suppression of Notifications
- RR3-259: SPID Migration Update - NPAC/SMS Processing of Requested Data Based on Status
- RR3-260: SPID Migration Update - SIC-SMURF File Names
- RR3-261: SPID Migration Update - SIC-SMURF File Formats
- RR3-262: SPID Migration Update - SIC-SMURF NPA-NXX File Processing - Update NPA-NXX Network Data
- RR3-709: SPID Migration Update - SIC-SMURF NPA-NXX File Processing - Update SV Data for Pseudo-LRN Records
- RR3-710: SPID Migration Update - SIC-SMURF NPA-NXX File Processing - Update Block Data for Pseudo-LRN Records
- RR3-264: SPID Migration Update - SIC-SMURF LRN File Processing - Update LRN Data
- RR3-265: SPID Migration Update - SIC-SMURF LRN File Processing - Update Block Data
- RR3-266: SPID Migration Update - SIC-SMURF-LRN File Processing - Update SV Data
- RR3-267: SPID Migration Update - SIC-SMURF NPA-NXX-X File Processing - Update NPA-NXX-X
- RR3-268: SPID Migration Update - Maximum Level of Granularity
- RR3-269: SPID Migration Update - Minimum Level of Granularity
- RR3-274: SPID Migration Update - Exclusion of Data During Recovery
- RR3-275: SPID Migration Update - Rejection for 'pending-like' Number Pool Blocks or Subscription Versions
- RR3-276: Update SPID on Messages Queued for Recovery
- RR3-277: SPID Migration Update - Consistency Check Across Network Data and LRN

Yes

## QUESTION:

**TRD FRS Section 3: Sub Section 3.2.2.2 Requirements**

The FRS Section 3.2.2.2 requirements address how online GUI functionality allows a Service Provider to perform self-service on entry of SPID Migrations.

**Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?**

RR3-553: Regional SPID Migration Online Functionality Indicator - Tunable Parameter

RR3-554: Regional SPID Migration Online Functionality Indicator - Tunable Parameter Default

RR3-555: Regional SPID Migration Online Functionality Indicator - Tunable Parameter Modification

RR3-556: SPID Migration Blackout Dates - GUI Entry By NPAC Personnel

RR3-557: SPID Migration Blackout Dates - Displaying in the GUI

RR3-558: SPID Migration Last Scheduling Date - Tunable Parameter

RR3-559: SPID Migration Last Scheduling Date - Tunable Parameter Default

RR3-560: SPID Migration Last Scheduling Date - Tunable Parameter Modification

RR3-561: SPID Migration Entry Restriction - Last Scheduling Date - Service Provider Personnel

RR3-562: SPID Migration Update - Migration Summary Information

RR3-563: SPID Migration Update - GUI Availability/Selection function for Service Provider and NPAC Personnel

RR3-564: SPID Migration Update - Available Migration Window Minimum - Tunable Parameter

RR3-565: SPID Migration Update - Available Migration Window Minimum - Reject

RR3-566: SPID Migration Update - NPAC Personnel Scheduling SPID Migrations to Any Migration Date in the Future

RR3-567: SPID Migration Update - Available Migration Window Minimum - Tunable Parameter Default

RR3-568: SPID Migration Update - Available Migration Window Minimum - Tunable Parameter Modification

RR3-569: SPID Migration Update - GUI Entry by Service Provider and NPAC Personnel

RR3-570: SPID Migration Update - GUI Entry by Service Provider and NPAC Personnel - Required Fields

RR3-571: SPID Migration Update - Generation of SPID Migration Name

RR3-572: SPID Migration Update - GUI Modification by Service Provider Prior to Other Service Provider Concurrence or NPAC Personnel Confirmation

RR3-573: SPID Migration Update - GUI Cancellation by Service Provider Prior to NPAC Personnel Confirmation

RR3-574: SPID Migration Update - GUI Error for Double Booking

RR3-575: SPID Migration Update - GUI Concurrence by Service Provider and NPAC Personnel

RR3-576: SPID Migration Creation by "migrating-from" and "migrating-to" SPIDs

RR3-577: SPID Migration Update - GUI Entry Service Provider - Confirmation by NPAC Personnel

RR3-578: SPID Migration Update - Confirmation by NPAC Personnel Required

RR3-579: SPID Migration Update - Reject by NPAC Personnel

RR3-580: SPID Migration Update - Service Providers Viewing Migrations

RR3-581: SPID Migration Update - Service Providers Viewing Their Own Migrations

RR3-583: SPID Migration Creation - Disallowing Scheduling of Two SPID Migrations with the same "Migrating-From" and "Migrating-To" SPID to the same Maintenance Day

RR3-584: SPID Migration Email List - Tunable Parameter

**3.2.2.2\***

RR3-585: SPID Migration Email List - Tunable Parameter Default  
 RR3-586: SPID Migration Email List - Tunable Parameter Modification  
 RR3-587: SPID Migration E-mail due to NPAC Personnel Operations  
 RR3-588: SPID Migration E-mail to "migrating-from" and "migrating-to" Service Providers  
 RR3-589: SPID Migration Update - GUI Cancellation by NPAC Personnel on behalf of Service Provider  
 RR3-590: SPID Migration Update - GUI Modification by NPAC Personnel of Scheduled SPID Migration  
 RR3-591: SPID Migration Update - GUI Execution by NPAC Personnel of Scheduled SPID Migration  
 RR3-592: SPID Migration Update - GUI Execution by NPAC Personnel - Notification to Local SMS and SOA  
 RR3-593: SPID Migration Update - Pending-Like SVs and NPBs Cleaned Up  
 RR3-594: Completed SPID Migration Retention - Tunable Parameter  
 RR3-595: Completed SPID Migration Retention - Tunable Parameter Default  
 RR3-596: Completed SPID Migration Retention - Tunable Parameter Modification  
 RR3-597: Completed SPID Migration Retention - Housekeeping Purge  
 RR3-598: Cancelled SPID Migration Retention - Tunable Parameter  
 RR3-599: Cancelled SPID Migration Retention - Tunable Parameter Default  
 RR3-600: Cancelled SPID Migration Retention - Tunable Parameter Modification  
 RR3-601: Cancelled SPID Migration Retention - Housekeeping Purge  
 RR3-602: SPID Migration Update - Quota Management  
 RR3-603: SPID Migration Update - Quota Management - Quota Exceeded Rejection for Service Provider Personnel  
 RR3-604: SPID Migration Update - Quota Management - Quota Exceeded Warning for NPAC Personnel  
 RR3-605: SPID Migration Update - Quota Management - Quota Exceeded Warning Content  
 RR3-606: SPID Migration Update - Migration Quota Tunable Parameter  
 RR3-607: SPID Migration Update - Migration Quota Tunable Parameter Default  
 RR3-608: SPID Migration Update - Migration Quota Tunable Parameter Modification  
 RR3-609: SPID Migration Update - All Regions Migration Quota Tunable Parameter  
 RR3-610: SPID Migration Update - All Regions Migration Quota Tunable Parameter Default  
 RR3-611: SPID Migration Update - All Regions Migration Quota Tunable Parameter Modification  
 RR3-612: SPID Migration Update - SV Quota Tunable Parameter  
 RR3-613: SPID Migration Update - SV Quota Tunable Parameter Default  
 RR3-614: SPID Migration Update - SV Quota Tunable Parameter Modification  
 RR3-615: Maintenance Window Day of the Week - Tunable Parameter  
 RR3-616: Maintenance Window Day of the Week - Tunable Parameter Default  
 RR3-617: Maintenance Window Day of the Week - Tunable Parameter Modification  
 RR3-618: Maintenance Window Start Time Hour - Tunable Parameter  
 RR3-619: Maintenance Window Start Time Hour - Tunable Parameter Default  
 RR3-620: Maintenance Window Start Time Hour - Tunable Parameter Modification  
 RR3-621: Preliminary SPID Migration SMURF Files Lead Time - Tunable Parameter  
 RR3-622: Preliminary SPID Migration SMURF Files Lead Time - Tunable Parameter Default  
 RR3-623: Preliminary SPID Migration SMURF Files Lead Time - Tunable Parameter Modification  
 RR3-624: Generation of Preliminary SMURF files  
 RR3-625: Generation of Final SMURF files  
 RR3-626: Offline-Only SPID Migration Flag  
 RR3-627: SPID Migration Suspended Status  
 RR3-628: Suspended SPID Migrations - No Automatic Online Migration  
 RR3-629: Suspended SPID Migrations - No Manual Online Migration

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	<p><b>ION</b></p> <p>RR3-630: SPID Migration Suspension/Un-suspension - No Quota Change</p> <p>RR3-631: Automatic suspension when pre-migration validations fail</p> <p>RR3-632: SPID Migration - Secure FTP Site Directory Structure</p> <p>RR3-632.5: SPID Migration - Secure FTP Site Subdirectory - Service Provider Tunable</p> <p>RR3-633: SPID Migration - Secure FTP Site Date Subdirectory - Service Provider Indicator Default</p> <p>RR3-634: SPID Migration - Secure FTP Site Date Subdirectory - Service Provider Indicator Modification</p> <p>RR3-711: SPID Migration -Service Provider GUI Login Restriction</p> <p>RR3-712: SPID Migration - Pseudo-LRN Indicator</p> <p>RR3-762: SPID Migration Update - Online-to-Offline Restriction Window - Tunable Parameter</p> <p>RR3-763: SPID Migration Update - Online-to-Offline Restriction Window - Tunable Parameter Default</p> <p>RR3-764: SPID Migration Update - Online-to-Offline Restriction Window - Tunable Parameter Modification</p> <p>RR3-765: SPID Migration Update - SPID Migration Date Restriction Window - Tunable Parameter</p> <p>RR3-766: SPID Migration Update - SPID Migration Date Restriction Window - Tunable Parameter Default</p> <p>RR3-767: SPID Migration Update - SPID Migration Date Restriction Window - Tunable Parameter Modification</p>
Yes	

<p><b>3.2.2.3*</b></p>	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 3: Sub Section 3.2.2.3: SPID Migration Interface Messages</b></p> <p>The FRS Section 3.2.2.3 requirements address interface messages for code-only migrations that are sent to Service Providers that support the feature.</p> <p><b>Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?</b></p> <p>RR3-635: Service Provider SOA Automated SPID Migration Indicator</p> <p>RR3-636: Service Provider SOA Automated SPID Migration Indicator Default</p> <p>RR3-637: Service Provider SOA Automated SPID Migration Indicator Modification</p> <p>RR3-638: Service Provider SOA Automated SPID Migration Indicator Usage</p> <p>RR3-639: Service Provider LSMS Automated SPID Migration Indicator</p> <p>RR3-640: Service Provider LSMS Automated SPID Migration Indicator Default</p> <p>RR3-641: Service Provider LSMS Automated SPID Migration Indicator Modification</p> <p>RR3-642: Service Provider LSMS Automated SPID Migration Indicator Usage</p> <p>RR3-643: Service Provider Secure FTP SMURF File in lieu of missed SPID Migration Transactions</p> <p>RR3-644: Online SPID Migration Lead Time - Tunable Parameter</p> <p>RR3-645: Online SPID Migration Lead Time - Tunable Parameter Default</p> <p>RR3-646: Online SPID Migration Lead Time - Tunable Parameter Modification</p> <p>RR3-647: Online SPID Migration - Database Updates</p>
	Yes

	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 3: Sub Section 3.2.2.4: SPID Migration Reports</b></p> <p><b>Does the Respondent's proposal fully comply with the requirement below</b></p>
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**3.2.2.4\***

**QUESTION**  
**in time to meet the published implementation date?**

RR3-648: SPID Migration Reports – Post-Migration SV and NPB Count Report

Yes

**3.3\***

**QUESTION:**

**TRD FRS Section 3: Sub Section 3.3: System Functionality**

The FRS Section 3.3 requirements address system functionality related to offline batch downloads, online network downloads, notifications, LATA ID association and validation, and NPAC SMS record ID inventory.

**Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?**

- R3-8: Off-line batch updates for Local SMS Disaster Recovery
- R3-9: NPAC/SMS download of network data to the Local SMS and SOA
- RR3-66: Number Pool NPA-NXX-X Holder Information - NPAC/SMS download of network data to the SOA or Local SMS
- RR3-67.1: Number Pool NPA-NXX-X Holder Information - NPAC/SMS download via SOA and/or Local SMS Interface of NPA-NXX-X allocation to the Service Providers
- R3-10: NPAC/SMS notification of NPA-NXX availability to the Service Providers
- R3-11: NPAC/SMS notification of LRNs and Service Provider data by Service Provider
- RR3-67.2: Number Pool NPA-NXX-X Holder Information - NPAC/SMS download via Web Bulletin Board of NPA-NXX-X allocation to the Service Providers
- RR3-278: LATA ID Information Source
- RR3-279: Association of LATA ID with NPA-NXXs
- RR3-280: Association of LATA ID with LRNs
- RR3-439: Validation of LATA ID for NPA-NXX Creates
- RR3-440: Validation of LATA ID for LRN Creates
- RR3-649: NPAC/SMS Record ID Inventory - Maximum Value Rollover
- RR3-650: NPAC/SMS Record ID Inventory - Mechanism
- RR3-651: NPAC/SMS Record ID Inventory - Adding Available ID Values
- RR3-652: NPAC/SMS Record ID Inventory - Skipping Un-Available ID Values
- RR3-653: NPAC/SMS Record ID Inventory - Issuing new ID Values
- RR3-654: NPAC/SMS Record ID Inventory - Skipping ID Value of Zero

Yes

**QUESTION:**

**TRD FRS Section 3: Sub Section 3.4: Additional Requirements**

The FRS Section 3.4 requirements address additional requirements related to addition, validation, deletion and downloading of NPA NXX data and LRNs. FTP site info, clock synchronization, database extract file creation, input restrictions, first usage effective dates, and timestamps are also covered in section 3.4.

**Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?**

- RX3-1.1.1: Service Provider NPA-NXX Data Addition
- RX3-1.1.2: Service Provider NPA-NXX Data Effective Date Validation
- RX3-1.2: Service Provider LRN Data Addition
- RX3-3.1: Service Provider NPA-NXX Data Deletion
- RX3-3.2: Service Provider LRN Data Deletion
- RR3-1: Service Provider Download Indicator

**3.4\***

- RR3-2: Service Provider Download Indicator
- R3-14: Bulk Database Extracts
- R3-15: Secure FTP Site for Database Extracts
- R3-16: Database Extract File Creation
- R3-17: Scope of Database Extract File Creation
- RR3-3: NPAC/SMS Input Restrictions
- RR3-4: Create LRN data for a Service Provider
- RR3-15: NPAC Clock Synchronization
- RR3-474: NPA-NXX Availability - First Usage Effective Date Window - Tunable Parameter
- RR3-475: NPA-NXX Availability - First Usage Effective Date Window - Tunable Parameter Default
- RR3-476: NPA-NXX Availability - First Usage Effective Date Window - Tunable Parameter Modification
- RR3-477: NPA-NXX- Live TimeStamp
- RR3-478: Region Supports First Usage Effective Date Indicator
- RR3-479: Region Supports First Usage Effective Date Modification
- RR3-480: Region Supports First Usage Effective Date Indicator - Default Value

Yes

**QUESTION:**

**TRD FRS Section 3: Sub Section 3.4.1: Valid NPA-NXXs in a Region Data Validations**

The FRS Section 3.4.1 requirements address data validations for NPAs and NPA NXXs for each NPAC region.

**Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?**

**3.4.1\***

- RR3-441: Valid NPAs for each NPAC Region
- RR3-442: Maintaining List of Valid NPAs for Each NPAC Region
- RR3-443: Updating List of Valid NPAs for Each NPAC Region
- RR3-444: Rejection of NPA-NXXs that Do Not Belong to a Valid NPA for the NPAC Region
- RR3-445: Regional NPAC NPA Edit Flag Indicator
- RR3-446: Regional NPAC NPA Edit Flag Indicator Modification
- RR3-447: Regional NPAC NPA Edit Flag Indicator - Default Value
- RR3-448: Valid NPA-NXXs for 859 KY Exception
- RR3-449: Maintaining List of Valid NPA-NXXs for 859 KY Exception
- RR3-450: Updating List of Valid NPAs for 859 KY Exception
- RR3-451: Rejection of NPA-NXXs that Do Not Belong to a Valid NPA for the 859 KY Exception

Yes

**QUESTION:**

**TRD FRS Section 3: Sub Section 3.4.2: NPA-NXX Modification**

The following requirements address modification of NPA NXX data.

**Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?**

- RR3-655: Regional NPA-NXX Modification Flag Indicator - Tunable Parameter
- RR3-656: Regional NPA-NXX Modification Flag Indicator - Tunable Parameter Default
- RR3-657: Regional NPA-NXX Modification Flag Indicator - Tunable Parameter Modification

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**3.4.2\***

- RR3-658: Modify NPA-NXX data for a Service Provider
- RR3-659: NPAC/SMS download of network data to the Local SMS and SOA - Modification
- RR3-660: Service Provider NPA-NXX Data Modification
- RR3-661: Modification of NPA-NXX - Effective Date Modification from OpGUI
- RR3-662: Modification of NPA-NXX - Effective Date versus Current Date
- RR3-663: Modification of NPA-NXX - New Effective Date versus No Pending SVs or Scheduled NPA-NXX-Xs/Number Pool Blocks
- RR3-664: Modification of NPA-NXX - Validation Error
- RR3-665: Service Provider SOA NPA-NXX Modification Flag Indicator
- RR3-666: Service Provider SOA NPA-NXX Modification Flag Indicator Default
- RR3-667: Service Provider SOA NPA-NXX Modification Flag Indicator Modification
- RR3-668: Service Provider LSMS NPA-NXX Modification Flag Indicator
- RR3-669: Service Provider LSMS NPA-NXX Modification Flag Indicator Default
- RR3-670: Service Provider LSMS NPA-NXX Modification Flag Indicator Modification
- RR3-671: Modification of NPA-NXX - Service Provider SOA NPA-NXX Modification Flag Indicator set to FALSE
- RR3-672: Modification of NPA-NXX - Service Provider SOA NPA-NXX Modification Flag Indicator set to TRUE
- RR3-673: Modification of NPA-NXX - Service Provider LSMS NPA-NXX Modification Flag Indicator set to FALSE
- RR3-674: Modification of NPA-NXX - Service Provider LSMS NPA-NXX Modification Flag Indicator set to TRUE
- RR3-675: Service Provider SOA NPA-NXX Modify BDD File Indicator
- RR3-676: Service Provider SOA NPA-NXX Modify BDD File Indicator Default
- RR3-677: Service Provider SOA NPA-NXX Modify BDD File Indicator Modification
- RR3-678: Service Provider LSMS NPA-NXX Modify BDD File Indicator
- RR3-679: Service Provider LSMS NPA-NXX Modify BDD File Indicator Default
- RR3-680: Service Provider LSMS NPA-NXX Modify BDD File Indicator Modification

Yes

**3.4.3\***

**QUESTION:**

**TRD FRS Section 3: Sub Section 3.4.3: Valid NPA-NXXs for each Service Provider**

The following requirements allow for maintaining valid OCN and NPA NXX lists for each SPID.

**Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?**

- RR3-681: Valid NPA-NXXs for each SPID
- RR3-682: Maintaining List of Valid NPA-NXXs for each SPID
- RR3-683: Updating List of Valid NPA-NXXs for each SPID
- RR3-684: Valid OCNs for each SPID
- RR3-685: Maintaining List of Valid OCNs for each SPID
- RR3-686: Updating List of Valid OCNs for each SPID
- RR3-687: Rejection of NPA-NXXs that Do Not Belong to the OCN/SPID
- RR3-688: Regional NPAC NPA-NXX Ownership Edit Flag Indicator
- RR3-689: Regional NPAC NPA-NXX Ownership Edit Flag Indicator Modification
- RR3-690: Regional NPAC NPA-NXX Ownership Edit Flag Indicator - Default Value
- RR3-691: Rejection of NPA Split for an NPA-NXX that Does Not Belong to the OCN/SPID

Yes

**QUESTION:**

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### TRD FRS Section 3: Sub Section 3.4.4: Pseudo-LRN in a Region Data Validations

The following requirements provide for the proper use of Pseudo-LRNs in the NPAC/SMS.

#### 3.4.4\*

**Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?**

- RR3-713: LRN Record – Pseudo-LRN value in the NPAC/SMS
- RR3-714: LRN Record – Pseudo-LRN restriction in the NPAC/SMS
- RR3-715: LRN Record – Pseudo-LRN query in the NPAC/SMS
- RR3-716: Region Supports Pseudo-LRN Indicator
- RR3-717: Region Supports Pseudo-LRN Modification
- RR3-718: Region Supports Pseudo-LRN Indicator – Default Value

Yes

#### QUESTION:

### TRD FRS Section 3: Sub Section 3.5: NPA Splits Requirements

Section 3.5 defines NPA Split functionality within the NPAC/SMS. The primary means of processing NPA Split information within the NPAC/SMS is through automated and regular processing of NPA Split Load Flat Files from industry source data. In the event of an 'emergency' there is a manual process by which authorized NPAC personnel may enter required NPA Split information in order to initiate appropriate processing. This manual process is reserved for only 'back-up or emergency' situations as deemed by industry and NPAC representatives.

**Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?**

- RN3-1: NPA Split Permissive Dialing
- RN3-2: NPA Split
- RN3-3: NPA Split Permissive Dialing Cleanup
- RR3-281: NPA Split - Load File from Industry Source Data
- RR3-282: NPA Split - Load File from Industry Source Data During Housekeeping Process
- RR3-283: NPA Split - Load File from Industry Source Data Processing Results
- RR3-284: NPA Split - Load File from Industry Source Data, Reject existing new NPA-NXX
- RR3-285: NPA Split - Load File from Industry Source Data, Generate new NPA-NXX
- RR3-286: NPA Split - Load File from Industry Source Data, Delete new NPA-NXX
- RR3-287: NPA Split - NPA Split Load Flat File Exception Report with An Existing New NPA-NXX
- RR3-288: NPA Split - Load File from Industry Source Data, Verifying Old and New NPA-NXX
- RR3-289: NPA Split - Load File from Industry Source Data, Pushing Out PDP Start Date
- RR3-290: NPA Split - Load File from Industry Source Data, Pulling In PDP Start Date
- RR3-291: NPA Split - Load File from Industry Source Data, Error Modifying PDP Start Date with Existing Subscription Versions
- RR3-292: NPA Split - Load File from Industry Source Data, Complete Processing of File
- RR3-293: NPA Split - Load File from Industry Source Data, Re-Processing of File
- RR3-294: NPA Split - Load File from Industry Source Data, Error Modifying PDP Start Date for NPA Split Already in Progress
- RR3-295: NPA Split - Load File from Industry Source Data, Adding an NXX to an Existing Split
- RR3-296: NPA Split - Load File from Industry Source Data Information on the Web
- AN3-4.1: NPA Split Information Source
- AN3-4.2: NPAC Personnel Manual NPA Split Request
- RN3-4.1: NPA Split - NPA-NXX existence prior to the NPA Split

**3.5\***

FRS Section 3: Sub Section 3.5: Requirement RN3-4.2: NPA Split - New NPA-NXX existence prior to the NPA Split - Error  
 RR3-436: NPA Split -Old NPA-NXX non-existence prior to the NPA Split - Error  
 RR3-437: NPA Split - New NPA-NXX Creation  
 RN3-4.6: NPA Split - NPA-NXX involved in one NPA Split Validation  
 RR3-297: NPA Split - NPA Split Load Flat File Exception Report with New NPA-NXX Already Involved in NPA Split  
 RN3-4.7: NPA Split - No Active Subscription Versions in the new NPA-NXX  
 RN3-4.8: NPA Split - No Active Subscription Versions in the new NPA-NXX - Error  
 RN3-4.9: NPA Split - Prevention of NPA-NXX Deletion  
 RN3-4.11: NPA Split - No modification of LRN data  
 RN3-4.12: NPA Split - Exception Processing for Subscription Versions that exist in the New and Old NPA-NXX  
 RN3-4.13: NPA Split - No Modification of Filter Data  
 RN3-4.14: NPA Split - Audit Processing  
 RN3-4.15: NPA Split - Entering of Split Data  
 RN3-4.16: NPA Split - Modification of End Date of Permissive Dialing Date  
 RR3-438: NPA Split - Modification of Start Date of Permissive Dialing Date  
 RN3-4.17: NPA Split - Removal of NPA-NXX during Permissive Dialing  
 RN3-4.18: NPA Split - Removal of NPA-NXX during Permissive Dialing - Subscription Version Processing  
 RN3-4.20: NPA Split - Removal of NPA Split Information prior to NPA Split  
 RN3-4.21: NPA Split - Removal of NPA Split Information after Permissive Dialing Period End Date  
 RN3-4.22: NPA Split - No Broadcast of Subscription Version Modification  
 RN3-4.23: NPA Split - Retention of Subscription Version Id  
 RN3-4.24: NPA Split - Update of Subscription Versions at the Beginning of Permissive Dialing  
 RN3-4.25: NPA Split - Old NPA-NXX involved in one NPA Split Validation  
 RN3-4.26: NPA Split - Old NPA-NXX involved in one NPA Split Validation - Error  
 RR3-298: NPA Split - NPA Split Load Flat File Exception Report with Old NPA-NXX Already Involved in NPA Split  
 RN3-4.27: NPA Split - Validation of the Permissive Dialing Period  
 RN3-4.28: NPA Split - Old NPA-NXX and New NPA-NXX Ownership Validation  
 RR3-299: NPA Split - NPA Split Load Flat File Exception Report with Mismatched SPIDs for Old and New NPA-NXX  
 RN3-4.30: NPA Split - Creation of a Subscription Version during the Permissive Dialing Period  
 RN3-4.31: NPA Split - Current and Pending NPA Split Report  
 RN3-4.32: NPA Split - NPA Split History Report  
 RR3-219: NPA Splits - Deletion of Old NPA-NXX at the end of permissive dialing

Yes

**QUESTION:****TRD FRS Section 3: Sub Section 3.5.1: NPA-NXX-X, NPA Splits**

The following requirements address Number Pools and NPA-NXX-X information.

**Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?**

RR3-31: NPA Splits and the Number Pool NPA-NXX-X Information - New NPA Split Automatic Create of New NPA-NXX-X

RR3-32: NPA Splits and the Number Pool NPA-NXX-X Information - New NPA Split Error Message if New NPA-NXX-X Already Exists

RR3-300: NPA Split - NPA Split Load Flat File Exception Report with Already Existing

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## 3.5.1\*

QUESTION:  
New NPA-NXX-X

RR3-33: NPA Splits and the Number Pool NPA-NXX-X Information - New NPA Split Field Values for Automatic Add of New NPA-NXX-X

RR3-34: NPA Splits and the Number Pool NPA-NXX-X Information - New NPA Split, Skip Block and Subscription Version Create

RR3-35: NPA Splits and the Number Pool NPA-NXX-X Information - NXX Removal from NPA Split prior to the end of PDP

RR3-36.1: NPA Splits and the Number Pool NPA-NXX-X Information - Addition of an NPA-NXX-X scheduled for an NPA Split

RR3-36.2: NPA Splits and the Number Pool NPA-NXX-X Information - New Addition of an NPA-NXX-X scheduled for an NPA Split With an Error Message

RR3-36.3: NPA Splits and the Number Pool NPA-NXX-X Information - Addition of an NPA-NXX-X currently in Permissive Dialing in an NPA Split

RR3-37.1: NPA Splits and the Number Pool NPA-NXX-X Information - Modification of an NPA-NXX-X scheduled for an NPA Split

RR3-37.2: NPA Splits and the Number Pool NPA-NXX-X Information - New Modification of an NPA-NXX-X scheduled for an NPA Split With an Error Message

RR3-37.3: NPA Splits and the Number Pool NPA-NXX-X Information - Modification of an NPA-NXX-X involved in an NPA Split

RR3-38.1: NPA Splits and the Number Pool NPA-NXX-X Information - Deletion of an NPA-NXX-X involved in an NPA Split

RR3-38.2: NPA Splits and the Number Pool NPA-NXX-X Information - New Deletion of an NPA-NXX-X scheduled for an NPA Split With an Error Message

RR3-38.3: NPA Splits and the Number Pool NPA-NXX-X Information - Deletion of an NPA-NXX-X involved in an NPA Split

RR3-39: NPA Splits and the Number Pool NPA-NXX-X Information - Broadcast of Addition or Deletion of NPA-NXX-X Split Data

RR3-40: NPA Splits and the Number Pool NPA-NXX-X Information - Deletion of Old NPA-NXX-X at the end of permissive dialing

Yes

## QUESTION:

**TRD FRS Section 3: Sub Section 3.5.2: Block Holder, NPA Splits**

The following requirements address NPA Splits and Block Holder information.

**Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?**

RR3-41: NPA Splits and the Number Pooling Block Holder Information – Recognition of Both Old NPA and New NPA

RR3-42: NPA Splits and the Number Pooling Block Holder Information – NXX Removal from Split

RR3-43: NPA Splits and the Number Pool Block Holder Information – Addition of a Block involved in an NPA Split

RR3-44: NPA Splits and the Number Pool Block Holder Information – Addition of a Block for an NPA-NXX involved in an NPA Split

RR3-45: NPA Splits and the Number Pool Block Holder Information – Broadcast of a Block Create for an NPA-NXX involved in an NPA Split

RR3-46: NPA Splits and the Number Pool Block Holder Information – Modification of a Block for an NPA-NXX involved in an NPA Split

RR3-47: NPA Splits and the Number Pool Block Holder Information – Broadcast of a Block Modify Active for an NPA-NXX involved in an NPA Split

RR3-48: NPA Splits and the Number Pool Block Holder Information – De-pooling of the Block during PDP

RR3-49: NPA Splits and the Number Pool Block Holder Information – Mass Update that includes one or more Blocks for an NPA-NXX involved in an NPA Split

## 3.5.2\*

RR3-50: NPA Splits and the Number Pool Block Holder Information – Broadcast of a Mass Update that includes one or more Blocks for an NPA-NXX involved in an NPA Split  
 RR3-218: NPA Splits and the Number Pool Block Holder Information – Broadcast of Subscription Versions for an NPA-NXX involved in an NPA Split

Yes

**STATEMENT:**

**3.6**

**TRD FRS Section 3: Sub Section 3.6: NPA-NXX Filter Management Requirements**

The FRS Section 3.6 requirements address NPAC/SMS Filter Management that allows for NPAC personnel and/or Service Providers to add, delete and query NPA and NPA NXX filters to manage information that is broadcast to a given Local SMS.

**QUESTION:**

**3.6.1\***

**TRD FRS Section 3: Sub Section 3.6.1: NPA-NXX Level Filters**

The following requirements address creation, deletion and querying of NPA-NXX level filters.

**Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?**

RR3-5: Create Filtered NPA-NXX for a Local SMS  
 RR3-6: Delete Filtered NPA-NXX for a Local SMS  
 RR3-7: Query Filtered NPA-NXXs for a Local SMS  
 RR3-8: Query Filtered NPA-NXXs - NPA-NXX Not Provided  
 RR3-9: Query Filtered NPA-NXXs - NPA-NXX Provided  
 RR3-768: Delete Filtered NPA-NXX - Deletion of NPA-NXX

Yes

**QUESTION:**

**3.6.2\***

**TRD FRS Section 3: Sub Section 3.6.2: NPA Level Filters**

The following requirements address the creation, deletion and querying of NPA level filters.

**Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?**

RR3-692: Create Filtered NPA for a Local SMS - Existing NPA-NXX not Required  
 RR3-692.5: Create Filtered NPA for a Local SMS and SOA - Delete Subordinate NPA-NXXs  
 RR3-693: Filtered NPA Behavior for a Local SMS  
 RR3-694: Delete Filtered NPA for a Local SMS  
 RR3-695: Filtered NPA Behavior - Overlap Allowed  
 RR3-696: Create Filtered NPA-NXX for a Local SMS - NPAC Personnel - Existing NPA-NXX Not Required

Yes

**QUESTION:**

**TRD FRS Section 3: Sub Section 3.7: Business Hour and Days Requirements**

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**ION**  
The FRS Section 3.7 requirements are related to definition and processing of long, medium and short business hours and days for operations involving business time calculation including holidays.

**Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?**

**3.7\***

RR3-10: Business Hours and Days  
 RR3-229: Short Business Days Tunable Parameter  
 RR3-230: Short Business Days Tunable Parameter - Default Value  
 RR3-231: Short Business Days Tunable Parameter - Valid Values  
 RR3-232: Short Business Days Tunable Parameter - Modification  
 RR3-498: Medium Business Days Tunable Parameter  
 RR3-499: Medium Business Days Tunable Parameter - Default Value  
 RR3-500: Medium Business Days Tunable Parameter - Valid Values  
 RR3-501: Medium Business Days Tunable Parameter - Modification  
 RR3-233: Long Business Days Tunable Parameter  
 RR3-234: Long Business Days Tunable Parameter - Default Value  
 RR3-235: Long Business Days Tunable Parameter - Valid Values  
 RR3-236: Long Business Days Tunable Parameter - Modification  
 RR3-12.1: Business Day Duration - Tunable Parameter  
 RR3-12.2: Business Day Duration - Tunable Parameter Modification  
 RR3-12.3: Short Business Day Duration - Tunable Parameter Default  
 RR3-502: Medium Business Day Duration - Tunable Parameter Default  
 RR3-12.4: Long Business Day Duration - Tunable Parameter Default  
 RR3-13.1: Business Day Start Time - Tunable Parameter  
 RR3-13.2: Business Day Start Time - Tunable Parameter Modification  
 RR3-13.3: Short Business Day Start Time - Tunable Parameter Default  
 RR3-503: Medium Business Day Start Time - Tunable Parameter Default  
 RR3-13.4: Long Business Day Start Time - Tunable Parameter Default  
 RR3-14: Business Holidays

Yes

**STATEMENT:**

**3.8**

**TRD FRS Section 3: Sub Section 3.8: Notifications**

The FRS Section 3.8 requirements are related to TN range notification indicators, SP Concurrence notification indicators, SOA notifications, Attribute value change notifications, and Attribute flag indicators.

**QUESTION:**

**3.8.1\***

**TRD FRS Section 3: Sub Section 3.8.1: TN Range Notification Indicator**

The following requirements address notification indicators for TN ranges.

**Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?**

RR3-237: NPAC Customer TN Range Notification Indicator  
 RR3-238: NPAC Customer TN Range Notification Indicator - Default  
 RR3-239: NPAC Customer TN Range Notification Indicator - Modification

Yes

**QUESTION:**

**TRD FRS Section 3: Sub Section 3.8.2: Customer No New Concurrence**

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**Notification Indicator**

The following requirements address notification indicators when new provider concurrence is not provided.

**3.8.2\***

**Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?**

RR3-240: NPAC Customer No New SP Concurrence Notification Indicator  
 RR3-241: NPAC Customer No New SP Concurrence Notification Indicator - Default  
 RR3-242: NPAC Customer No New SP Concurrence Notification Indicator - Modification  
 RR3-243: Subscription Version Information - Suppress Notification when Service Provider No New SP Concurrence Notification Indicator is False  
 RR3-244: Subscription Version Information - Send Notification when Service Provider No New SP Concurrence Notification Indicator is True

Yes

**QUESTION:****TRD FRS Section 3: Sub Section 3.8.3: SOA Notification Priority**

The following requirements address SOA notification priority elements.

**Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?**

**3.8.3\***

RR3-245: SOA Notification Priority Tunable Parameter  
 RR3-246: SOA Notification Priority Based on Attributes  
 RR3-247: SOA Notification Priority Tunable Parameter based on Old or New Service Provider Status  
 RR3-248: SOA Notification Priority Tunable Parameter - Valid Values  
 RR3-249: SOA Notification Priority Tunable Parameter - Default Value  
 RR3-250: Modifying the SOA Notification Priority Tunable Parameter Value  
 RR3-251: SOA Notification Priority Processing  
 RR3-252: SOA Notification Priority Tunable Parameter -Value Equal to NONE  
 RR3-253: Processing of SOA Notification Queues

Yes

**QUESTION:****TRD FRS Section 3: Sub Section 3.8.4: TN and Number Pool Block In Notifications**

The following requirements address notifications related to TN and Number Pool Blocks.

**Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?**

**3.8.4\***

RR3-452: Subscription Version Status Attribute Value Change - Send TN  
 RR3-453: Subscription Version Attribute Value Change - Send TN  
 RR3-454: Number Pool Block Status Attribute Value Change - Send NPA-NXX-X  
 RR3-455: Number Pool Block Attribute Value Change - Send NPA-NXX-X  
 RR3-456: Subscription Version TN Attribute Flag Indicator  
 RR3-457: Modification of Subscription Version TN Attribute Flag Indicator  
 RR3-458: Subscription Version TN Attribute Flag Indicator Default Value  
 FRS Section 3: Sub Section 3.8.4: Requirement RR3-459: Number Pool Block NPA-NXX-X Attribute Flag Indicator  
 RR3-460: Modification of Number Pool Block NPA-NXX-X Attribute Flag Indicator

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	<p style="text-align: center;"><b>ION</b> RR3-461: Number Pool Block NPA-NXX-X Attribute Flag Indicator Default Value</p> <p>Yes</p>
<p style="font-size: 24pt; font-weight: bold;">3.9</p>	<p><b>STATEMENT:</b></p> <p><b>TRD FRS Section 3: Sub Section 3.9: Service Provider Support Indicators</b></p> <p>The FRS Section 3.9 requirements define service provider tunable features that indicate if a service provider system supports optional data functionality defined as part of NANC 399.</p>
<p style="font-size: 24pt; font-weight: bold;">3.9.1*</p>	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 3: Sub Section 3.9.1: SV Type and Alternative SPID Indicators</b></p> <p>The following requirements address indicators for SV Type and Alternative SPID.</p> <p><b>Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?</b></p> <p>RR3-484: Service Provider SOA SV Type Edit Flag Indicator  RR3-485: Service Provider SOA SV Type Edit Flag Indicator Default  RR3-486: Service Provider SOA SV Type Edit Flag Indicator Modification  RR3-487: Service Provider LSMS SV Type Edit Flag Indicator  RR3-488: Service Provider LSMS SV Type Edit Flag Indicator Default  RR3-489: Service Provider LSMS SV Type Edit Flag Indicator Modification  RR3-490: Service Provider SOA Alternative SPID Edit Flag Indicator  RR3-491: Service Provider SOA Alternative SPID Edit Flag Indicator Default  RR3-492: Service Provider SOA Alternative SPID Edit Flag Indicator Modification  RR3-493: Service Provider LSMS Alternative SPID Edit Flag Indicator  RR3-494: Service Provider LSMS Alternative SPID Edit Flag Indicator Default  RR3-495: Service Provider LSMS Alternative SPID Edit Flag Indicator Modification  RR3-504: Service Provider SOA Last Alternative SPID Edit Flag Indicator  RR3-505: Service Provider SOA Last Alternative SPID Edit Flag Indicator Default  RR3-506: Service Provider SOA Last Alternative SPID Edit Flag Indicator Modification  RR3-507: Service Provider LSMS Last Alternative SPID Edit Flag Indicator  RR3-508: Service Provider LSMS Last Alternative SPID Edit Flag Indicator Default  RR3-509: Service Provider LSMS Last Alternative SPID Edit Flag Indicator Modification</p> <p>Yes</p>

<p style="font-size: 24pt; font-weight: bold;">3.9.2*</p>	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 3: Sub Section 3.9.2: Alternative-End User Location and Alternative Billing ID Indicators</b></p> <p>The following requirements define service provider tunable features that indicate if a service provider system supports optional data functionality defined as part of NANC 436.</p> <p><b>Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?</b></p> <p>RR3-510: Service Provider SOA Alt-End User Location Value Edit Flag Indicator  RR3-511: Service Provider SOA Alt-End User Location Value Edit Flag Indicator Default  RR3-512: Service Provider SOA Alt-End User Location Value Edit Flag Indicator Modification  RR3-513: Service Provider SOA Alt-End User Location Type Edit Flag Indicator  RR3-514: Service Provider SOA Alt-End User Location Type Edit Flag Indicator Default</p> <p style="text-align: center;">Telcordia08018</p>
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**ION:**  
 RR3-515: Service Provider SOA Alt-End User Location Type Edit Flag Indicator Modification  
 RR3-516: Service Provider SOA Alt-Billing ID Edit Flag Indicator  
 RR3-517: Service Provider SOA Alt-Billing ID Edit Flag Indicator Default  
 RR3-518: Service Provider SOA Alt-Billing ID Edit Flag Indicator Modification

Yes

**QUESTION:****TRD FRS Section 3: Sub Section 3.9.3: URI Indicators**

The following requirements define service provider tunable features that indicate if a service provider system supports optional data functionality defined for URIs.

**Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?**

**3.9.3\***

RR3-519: Service Provider SOA Voice URI Edit Flag Indicator  
 RR3-520: Service Provider SOA Voice URI Edit Flag Indicator Default  
 RR3-521: Service Provider SOA Voice URI Edit Flag Indicator Modification  
 RR3-522: Service Provider LSMS Voice URI Edit Flag Indicator  
 RR3-523: Service Provider LSMS Voice URI Edit Flag Indicator Default  
 RR3-524: Service Provider LSMS Voice URI Edit Flag Indicator Modification  
 RR3-525: Service Provider SOA MMS URI Edit Flag Indicator  
 RR3-526: Service Provider SOA MMS URI Edit Flag Indicator Default  
 RR3-527: Service Provider SOA MMS URI Edit Flag Indicator Modification  
 RR3-528: Service Provider LSMS MMS URI Edit Flag Indicator  
 RR3-529: Service Provider LSMS MMS URI Edit Flag Indicator Default  
 RR3-530: Service Provider LSMS MMS URI Edit Flag Indicator Modification  
 RR3-531: Service Provider SOA SMS URI Edit Flag Indicator  
 RR3-532: Service Provider SOA SMS URI Edit Flag Indicator Default  
 RR3-533: Service Provider SOA SMS URI Edit Flag Indicator Modification  
 RR3-534: Service Provider LSMS SMS URI Edit Flag Indicator  
 RR3-535: Service Provider LSMS SMS URI Edit Flag Indicator Default  
 RR3-536: Service Provider LSMS SMS URI Edit Flag Indicator Modification

Yes

**QUESTION:****TRD FRS Section 3: Sub Section 3.9.4: Medium Timers Support Indicators**

The following requirements define service provider tunable features that indicate if a service provider system supports simple port medium timer functionality defined as part of NANC 440 and 441.

**Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?**

**3.9.4\***

RR3-537: Medium Timers Support Indicator  
 RR3-538: Medium Timers Support Indicator Default  
 RR3-539: Medium Timers Support Indicator Modification

Yes

**QUESTION:****TRD FRS Section 3: Sub Section 3.9.5: Pseudo-LRN Support Indicators**

The following requirements define service provider tunable features that indicate if a  
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service provider system supports Pseudo-LRN functionality.

**3.9.5\***

**Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?**

- RR3-719: Service Provider SOA Pseudo-LRN
- RR3-720: Service Provider SOA Pseudo-LRN Indicator Default
- RR3-721: Service Provider SOA Pseudo-LRN Indicator Modification
- RR3-722: Service Provider LSMS Pseudo-LRN Indicator
- RR3-723: Service Provider LSMS Pseudo-LRN Indicator Default
- RR3-724: Service Provider LSMS Pseudo-LRN Indicator Modification
- RR3-725: Service Provider SOA Pseudo-LRN Notification Indicator
- RR3-726: Service Provider SOA Pseudo-LRN Notification Indicator Default
- RR3-727: Service Provider SOA Pseudo-LRN Notification Indicator Modification
- RR3-728: Service Provider Low-Tech Interface Pseudo-LRN Support Flag Indicator
- RR3-729: Provider Low-Tech Interface Pseudo-LRN Support Flag Indicator Default
- RR3-730: Service Provider Low-Tech Interface Pseudo-LRN Support Flag Indicator Modification
- RR3-731: Service Provider SOA Force Pseudo-LRN BDD Indicator
- RR3-732: Service Provider SOA Force Pseudo-LRN BDD Indicator Default
- RR3-733: Service Provider SOA Force Pseudo-LRN BDD Indicator Modification
- RR3-734: Service Provider LSMS Force Pseudo-LRN BDD Indicator
- RR3-735: Service Provider LSMS Force Pseudo-LRN BDD Indicator Default
- RR3-736: Service Provider LSMS Force Pseudo-LRN BDD Indicator Modification

Yes

**QUESTION:**

**TRD FRS Section 3: Sub Section 3.10: Multiple Service Provider IDs per SOA Association Requirements**

The FRS Section 3.10 requirements define the management of primary and associated Service Provider IDs per SOA association.

**Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?**

**3.10\***

- RR3-16: Addition of NPAC Customer Associated Service Provider Information
- RR3-17: Deletion of NPAC Customer Associated Service Provider Information
- RR3-18: NPAC Customer Associated Service Provider Information - SPID validation
- RR3-19: NPAC Customer Associated Service Provider Information - Associated SPID
- A3-5: Associated Service Provider Multiple Service Provider Ids
- RR3-20: NPAC Customer Associated Service Provider Information - Validation Error
- RR3-21: NPAC Deletion of Service Provider Validation
- RR3-22: Association Rejection for Associated Service Provider Id
- RR3-23: Associated Service Provider Id Use over a Primary Service Provider Id Association
- RR3-24: Validation of Old and New/Current for Associated Service Provider Id
- RR3-25: Use of Primary Service Provider Key List
- RR3-26: Notifications for Associated Service Providers
- C3-1: Associated Service Provider Notification Aggregation
- RR3-27: Filters for Associated Service Providers
- RR3-28: Associated Service Provider and Primary Service Provider messages
- RR3-29: Recovery for an Associated Service Provider

Yes

**STATEMENT:**

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### TRD FRS Section 3: Sub Section 3.11: Bulk Data Download Functionality

## 3.11

The FRS Section 3.11 requirements describe Bulk Data Download functionality supported by the NPAC/SMS. The NPAC can generate files for Network Data (including SPID, LRN, NPA-NXX and NPA-NXX-X), and Subscription Versions (including Number Pool Blocks). The NPAC/SMS also has the ability to process Bulk Data Download Response files from Service Providers. Separate SOA and LSMS Indicators for a Service Provider are available.

#### QUESTION:

### TRD FRS Section 3: Sub Section 3.11.1: Bulk Data Download Functionality - General

The following requirements address general Bulk Data Download functionality.

## 3.11.1\*

**Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?**

RR3-220: Bulk Data Download File Creation  
 RR3-221: Bulk Data Download - File Naming Convention  
 RR3-222: Bulk Data Download - File Format  
 RR3-223: Bulk Data Download - Selection Criteria for File Creation  
 RR3-697: Bulk Data Download - Separate SOA and LSMS Indicators

Yes

#### QUESTION:

### TRD FRS Section 3: Sub Section 3.11.2: Network Data, Bulk Data Download

The following requirements address network data information related to bulk data downloads.

## 3.11.2\*

**Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?**

RR3-224: Bulk Data Download - Required Selection Criteria for Network Data File Generation  
 RR3-301: Network Data Information Bulk Download File Creation - Selection Criteria  
 RR3-302: Network Data Information Bulk Download File Creation - All Network Data or Latest View of Network Data Activity Choice  
 RR3-303: Network Data Information Bulk Download File Creation - Data in All Network Data Choice  
 RR3-304: Network Data Information Bulk Download File Creation - Data in Latest View of Network Data Activity Choice  
 RR3-305: Network Data Information Bulk Download File Creation - Time Range Fields  
 RR3-306: Network Data Information Bulk Download File Creation - Time Range Fields and Network Data Data Model  
 RR3-307: Network Data Information Bulk Download File Creation - Selection Criteria Combinations  
 RR3-308: Network Data Information Bulk Data Download - Network Data Results  
 RR3-309: Network Data Information Bulk Data Download - Network Data Results Sort Order  
 RR3-310: Network Data Information Bulk Data Download - Filters for Network Data  
 RR3-311: Network Data Information Bulk Data Download - Secure FTP Sub-Directory  
 RR3-481: Service Provider Data Information Bulk Data Download - Support for Service Provider Type Data

Yes

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**QUESTION:****TRD FRS Section 3: Sub Section 3.11.3: Subscription Version, Bulk Data Download**

The following requirements address subscription version information related to bulk data downloads.

**Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?**

RR3-225: Bulk Data Download -Required Selection Criteria for Subscription Data File Generation

RR3-312: Subscription Version Information Bulk Download File Creation - Selection Criteria

RR3-313: Subscription Version Information Bulk Download File Creation - Active/Disconnect Pending/Partial Failure Subscription Versions Only or Latest View of Subscription Version Activity Choice

RR3-314: Subscription Version Information Bulk Download File Creation - Data in Active/Disconnect Pending/Partial Failure Subscription Versions Only Choice

RR3-315: Subscription Version Information Bulk Download File Creation - Data in Latest View of Subscription Version Activity Choice

RR3-316: Subscription Version Information Bulk Download File Creation - Time Range Fields

RR3-317: Subscription Version Information Bulk Download File Creation - Time Range Fields and SV Data Model

RR3-318: Subscription Version Information Bulk Download File Creation - TN Range Fields

RR3-319: Subscription Version Information Bulk Download File Creation - Selection Criteria Combinations

RR3-320: Subscription Version Information Bulk Data Download - Subscription Version Results

RR3-321: Subscription Version Information Bulk Data Download - Subscription Version Results Sort Order

RR3-322: Subscription Version Information Bulk Data Download - Filters for Subscription Versions

RR3-323: Subscription Version Information Bulk Data Download - EDR LSMSs

RR3-227: Bulk Data Download - Secure FTP Sub-Directory

RR3-324: Bulk Download File Creation - Pooled Subscription Versions Filtered for EDR Local SMS

RR3-737: Subscription Version Bulk Download File Creation for SOA - Pseudo-LRN Inclusion

RR3-738: Subscription Version Bulk Download File Creation for LSMS - Pseudo-LRN Inclusion

**3.11.3\***

Yes

**QUESTION:****TRD FRS Section 3: Sub Section 3.11.4: NPA-NXX-X Holder, Bulk Data Download**

The following requirements address NPA-NXX-X holder information related to bulk data downloads.

**Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?**

RR3-116: Number Pool NPA-NXX-X Holder Information Bulk Download File - Separate File containing all NPA-NXX-X Data

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**3.11.4\***

	<p><b>ION</b></p> <p>RR3-117: Number Pool NPA-NXX-X Holder Information Bulk Download File - Filters for NPA-NXX-X Data</p> <p>RR3-118: Number Pool NPA-NXX-X Holder Information Bulk Download File - Secure FTP Sub-Directory</p> <p>RR3-739: Number Pool NPA-NXX-X Holder Information Bulk Download File Creation for SOA - Pseudo-LRN Inclusion</p> <p>RR3-740: Number Pool NPA-NXX-X Holder Information Bulk Download File Creation for LSMS - Pseudo-LRN Inclusion</p>
Yes	

<b>3.11.5*</b>	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 3: Sub Section 3.11.5: Block Holder, Bulk Data Downloads</b></p> <p>The following requirements address Number Pool Block holder information related to bulk data downloads.</p> <p><b>Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?</b></p> <p>RR3-198: Number Pool Block Holder Information Bulk Download File Creation - Blocks</p> <p>RR3-199: Number Pool Block Holder Information Bulk Download File Creation - Selection Criteria</p> <p>RR3-200.1: Number Pool Block Holder Information Bulk Download File Creation - Active and Partial Failure Blocks Only or Latest View of Block Activity Choice</p> <p>RR3-200.2: Number Pool Block Holder Information Bulk Download File Creation - Data in Active Blocks Only Choice</p> <p>RR3-200.3: Number Pool Block Holder Information Bulk Download File Creation - Data in Latest View of Block Activity Choice</p> <p>RR3-201.1: Number Pool Block Holder Information Bulk Download File Creation - Time Range Fields</p> <p>RR3-201.2: Number Pool Block Holder Information Bulk Download File Creation - Time Range Fields and Block Data Model</p> <p>RR3-202: Number Pool Block Holder Information Bulk Download File Creation - Block Range Fields</p> <p>RR3-203: Number Pool Block Holder Information Bulk Download File Creation - Selection Criteria Combinations</p> <p>RR3-204: Number Pool Block Holder Information Bulk Data Download - Block Results</p> <p>RR3-205: Number Pool Block Holder Information Bulk Data Download - Block Results Sort Order</p> <p>RR3-206: Number Pool Block Holder Information Bulk Data Download - Filters for Blocks</p> <p>RR3-207: Number Pool Block Holder Information Bulk Data Download - Secure FTP Sub-Directory</p> <p>RR3-741: Number Pool Block Holder Information Bulk Download File Creation for SOA - Pseudo-LRN Inclusion</p> <p>RR3-742: Number Pool Block Holder Information Bulk Download File Creation for LSMS - Pseudo-LRN Inclusion</p>
Yes	

	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 3: Sub Section 3.11.6: Notifications, Bulk Data Download</b></p> <p>The following requirements address notifications related to bulk data downloads.</p> <p><b>Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?</b></p>
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<b>3.11.6*</b>	<p><b>QUESTION:</b></p> <p>RR3-462: Notification BDD Selection Criteria Fields                  RR3-463: Notification BDD Required Selection Criteria                  RR3-464: Notification BDD File Name                  RR3-465: Notification BDD Time Range                  RR3-466: Notification BDD Results                  RR3-467: Notification BDD Sort Order                  RR3-468: Notification BDD Filters                  RR3-469: Notification BDD Secure FTP Sub-Directory                  RR3-540: Notification BDD Service Provider Timer Type Business Hours Attributes Indicator                  RR3-541: Notification BDD Service Provider Timer Type Business Hours Attributes Indicator Default                  RR3-542: Notification BDD Service Provider Timer Type Business Hours Attributes Indicator Modification</p>
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Yes

<b>3.11.7*</b>	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 3: Sub Section 3.11.7: Bulk Data Download Response Files</b></p> <p>The following requirements address bulk data download response files.</p> <p><b>Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?</b></p> <p>RR3-325: File Name Format for Service Provider BDD Response File                  RR3-326: File Contents for Service Provider BDD Response File                  RR3-327: Complete File Processing for Service Provider BDD Response File                  RR3-328: Processing of the Service Provider BDD Response File for Subscription Versions                  RR3-329: Removing a Service Provider from a Subscription Version Failed SP List                  RR3-330: Processing of the Service Provider BDD Response File for Number Pooling Blocks                  RR3-331: Removing a Service Provider from a Number Pooling Block Failed SP List                  RR3-332: Service Provider Not Found on the Failed SP List                  RR3-333: Validation of SPID in the Service Provider BDD Response File Against SPID of the Secure FTP Directory</p>
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Yes

<b>3.12</b>	<p><b>STATEMENT:</b></p> <p><b>TRD FRS Section 3: Sub Section 3.12: NPA-NXX-X Information</b></p> <p>The FRS Section 3.12 requirements define how the NPAC/SMS provides a mechanism to indicate whether a Service Provider supports receiving the NPA-NXX-X data, by downloading this data to their SOA via the SOA to NPAC/SMS Interface, using the Number Pooling NPA-NXX-X and LSMS EDR indicators.</p>
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	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 3: Sub Section 3.12.1: NPA-NXX-X Download Indicator Management</b></p> <p>The following requirements address management of NPA-NXX-X download indicators.</p> <p><b>Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?</b></p>
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<b>3.12.1*</b>	<p><b>QUESTION:</b></p> <p>RR3-52: NPAC Customer SOA NPA-NXX-X Indicator                  RR3-53: NPAC Customer SOA NPA-NXX-X Indicator - Default                  RR3-54: NPAC Customer SOA NPA-NXX-X Indicator - Modification                  RR3-55: NPAC Customer LSMS NPA-NXX-X Indicator                  RR3-56: NPAC Customer LSMS NPA-NXX-X Indicator - Default                  RR3-57: NPAC Customer LSMS NPA-NXX-X Indicator - Modification                  RR3-58: NPAC Customer LSMS EDR Indicator                  RR3-59: NPAC Customer LSMS EDR Indicator - Default                  RR3-60: NPAC Customer LSMS EDR Indicator - Modification</p>
Yes	

<b>3.12.2*</b>	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 3: Sub Section 3.12.2: NPA-NXX-X Holder Information</b></p> <p>The following requirements address Number Pool Block NPA-NXX-X Holder information.</p> <p><b>Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?</b></p> <p>RR3-61: Number Pool NPA-NXX-X Holder Information - NPAC Personnel OpGUI                  RR3-62: Number Pool NPA-NXX-X Holder Information - Service Provider Request                  RR3-63: Number Pool NPA-NXX-X Holder Information - NPA-NXX Validation                  RR3-65: Number Pool NPA-NXX-X Holder Information - Duplicate NPA-NXX-X Validation                  RR3-68: Number Pool NPA-NXX-X Holder Information - Service Provider Local SMS NPA-NXX-X Indicator Download of NPA-NXX-X Object                  RR3-69: Number Pool NPA-NXX-X Holder Information - Service Provider Local SMS NPA-NXX-X Indicator Suppression of Download of NPA-NXX-X Object                  RR3-743: Number Pool NPA-NXX-X Holder Information - Service Provider Local SMS Pseudo-LRN Indicator Download of NPA-NXX-X Object                  RR3-70: Number Pool NPA-NXX-X Holder Information - Filters for NPA-NXX-X Download to the Local SMS                  RR3-71: Number Pool NPA-NXX-X Holder Information - Service Provider SOA NPA-NXX-X Indicator Download of NPA-NXX-X Object                  RR3-72: Number Pool NPA-NXX-X Holder Information - Service Provider SOA NPA-NXX-X Indicator Suppression of Download of NPA-NXX-X Object                  RR3-744: Number Pool NPA-NXX-X Holder Information - Service Provider SOA Pseudo-LRN Indicator Download of NPA-NXX-X Object                  RR3-73: Number Pool NPA-NXX-X Holder Information - Filters for NPA-NXX-X Download to the SOA                  RR3-74: Number Pool NPA-NXX-X Holder Information - Validation Error</p>
Yes	

<b>3.12.3*</b>	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 3: Sub Section 3.12.3: NPA-NXX-X Holder, NPAC Scheduling/Re-Scheduling of Block Creation</b></p> <p>The following requirements address NPA-NXX-X block holder scheduling and re-scheduling of block creations.</p> <p><b>Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?</b></p> <p>RR3-75.1: Number Pool NPA-NXX-X Holder Information -OpGUI Entry Field for NPAC or SOA Origination</p>
Yes	

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**3.12.3\***

- RR3-75.2: Number Pool NPA-NXX-X Holder Information -OpGUI Entry Mechanism for Immediate or Scheduled Block Creation
- RR3-75.3: Number Pool NPA-NXX-X Holder Information -OpGUI Entry Field for Scheduled Date/Time
- RR3-76.1: Number Pool NPA-NXX-X Holder Information -Default for Scheduled Date/Time Entry Field
- RR3-76.2: Number Pool NPA-NXX-X Holder Information -Scheduled Date/Time Entry Field Validation
- RR3-77: Number Pool NPA-NXX-X Holder Information -Use of Scheduled Date/Time and NPAC Origination Entry Fields
- RR3-78: Number Pool NPA-NXX-X Holder Information - Routing Data for NPAC Origination
- RR3-79.1: Number Pool NPA-NXX-X Holder Information - Routing Data Field Level Validation
- RR3-79.2: Number Pool NPA-NXX-X Holder Information - Routing Data LRN Validation
- RR3-80.1: Number Pool NPA-NXX-X Holder Information - Modification of Block Create Event
- RR3-80.2: Number Pool NPA-NXX-X Holder Information - Modification of Scheduled Date/Time for Block Create Event
- RR3-80.3: Number Pool NPA-NXX-X Holder Information - Modification of Routing Data for Block Create Event
- RR3-81.1: Number Pool NPA-NXX-X Holder Information - Re-schedule of NPAC Initiated Block Create
- RR3-81.2: Number Pool NPA-NXX-X Holder Information - Re-schedule of Block Create Scheduling Options
- RR3-81.3: Number Pool NPA-NXX-X Holder Information - Re-schedule of Block Create Immediate Execution Edit Check
- RR3-82.1: Number Pool NPA-NXX-X Holder Information - Reject Re-schedule Based on Status
- RR3-82.2: Number Pool NPA-NXX-X Holder Information - Reject Re-schedule Based on Existing Block Create Event
- RR3-82.3: Number Pool NPA-NXX-X Holder Information - Validation Error for Schedule/Re-Schedule of Block Create Event
- RR3-83.1: Number Pool NPA-NXX-X Holder Information - Error Message for Pending-Like No-Active SVs during Block Create
- RR3-83.2: Number Pool NPA-NXX-X Holder Information - Pending-Like No-Active SVs Report Output Destinations
- RR3-83.3: Number Pool NPA-NXX-X Holder Information - Pending-Like No-Active SVs Report Output Destinations for Multiple Destinations
- RR3-83.4: Number Pool NPA-NXX-X Holder Information - Output Destination for Pending-Like No-Active SVs

Yes

**QUESTION:**

**TRD FRS Section 3: Sub Section 3.12.4: NPA-NXX-X Holder, Addition**

The following requirements address addition of Number Pooling NPA-NXX-X holder information.

**Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?**

- RR3-84: Addition of Number Pooling NPA-NXX-X Holder Information - Required Fields
- RR3-85: Addition of Number Pooling NPA-NXX-X Holder Information - SPID Validation
- RR3-86: Addition of Number Pooling NPA-NXX-X Holder Information - Check for

**3.12.4\***

**QUESTION:**

**TRD FRS Section 3: Sub Section 3.12.4: NPA-NXX-X Holder, Modification**

The following requirements address modification of Number Pooling NPA-NXX-X holder information.

**Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?**

RR3-87: Addition of Number Pooling NPA-NXX-X Holder Information - Check for Pending-Like Port-To-Original SVs  
 RR3-88.1: Addition of Number Pooling NPA-NXX-X Holder Information - Error Message for Pending-Like No-Active SVs and Pending-Like Port-To-Original SVs  
 RR3-88.2: Addition of Number Pooling NPA-NXX-X Holder Information -Pending-Like No-Active SVs and Pending-Like Port-To-Original SVs Report Selection of Output Destinations  
 RR3-88.3: Addition of Number Pooling NPA-NXX-X Holder Information -Pending-Like No-Active SVs and Pending-Like Port-To-Original SVs Report Output Destinations for Multiple Destinations  
 RR3-89: Addition of Number Pooling NPA-NXX-X Holder Information - Output Destination for Pending-Like No-Active SVs and Pending-Like Port-To-Original SVs  
 RR3-482: Number Pooling NPA-NXX-X Holder Information Effective Date - Validation upon Addition  
 RR3-745: Addition of Number Pooling NPA-NXX-X Holder Information - Active-LRN Number Pool Block Check for Pseudo-LRN SVs  
 RR3-93: Addition of Number Pooling NPA-NXX-X Holder Information Effective Date - OpGUI Default  
 RR3-94: Addition of Number Pooling NPA-NXX-X Holder Information - Successful Validation

Yes

**3.12.5\***

**QUESTION:**

**TRD FRS Section 3: Sub Section 3.12.5: NPA-NXX-X Holder, Modification**

The following requirements address modification of Number Pooling NPA-NXX-X holder information.

**Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?**

RR3-95: Modification of Number Pool NPA-NXX-X Holder Information - Effective Date Modification from OpGUI  
 RR3-96: Modification of Number Pool NPA-NXX-X Holder Information - Effective Date versus Current Date  
 RR3-97: Modification of Number Pool NPA-NXX-X Holder Information - Effective Date Update to Scheduled Block Create  
 RR3-483: Modification of Number Pool NPA-NXX-X Holder Information Effective Date - Validation  
 RR3-746: Number Pool NPA-NXX-X Holder Information - Pseudo-LRN Indicator  
 RR3-101: Modification of Number Pooling NPA-NXX-X Holder Information - Successful Validation

Yes

**QUESTION:**

**TRD FRS Section 3: Sub Section 3.12.6: NPA-NXX-X Holder, Deletion**

The following requirements address deletion of Number Pooling NPA-NXX-X holder information.

**Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?**

RR3-102: Deletion of Number Pool NPA-NXX-X Holder Information - NPA-NXX-X Data  
 RR3-103: Deletion of Number Pool NPA-NXX-X Holder Information - Single NPA-NXX-  
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3.12.6\*

ION  
 X at a time from OpGUI  
 RR3-104: Deletion of Number Pooling NPA-NXX-X Holder Information - Check for Pending-Like With Active POOL SVs  
 RR3-105: Deletion of Number Pooling NPA-NXX-X Holder Information - Check for Port-to-Original SVs  
 RR3-106: Deletion of Number Pooling NPA-NXX-X Holder Information - Check for non-Active Block  
 RR3-107: Deletion of Number Pooling NPA-NXX-X Holder Information - Check for Sending SVs  
 RR3-108.1: Deletion of Number Pooling NPA-NXX-X Holder Information - Error Message for Pending-Like With Active POOL SVs and Pending-Like Port-To-Original SVs  
 RR3-108.2: Deletion of Number Pooling NPA-NXX-X Holder Information -Pending-Like With Active POOL SVs and Pending-Like Port-To-Original SVs Report Selection of Output Destinations  
 RR3-108.3: Deletion of Number Pooling NPA-NXX-X Holder Information -Pending-Like With Active POOL SVs and Pending-Like Port-To-Original SVs Report Output Destinations for Multiple Destinations  
 RR3-109: Deletion of Number Pooling NPA-NXX-X Holder Information - Output Destination for Pending-Like and Active POOL SVs and Pending-Like Port-To-Original SVs  
 RR3-110: Deletion of Number Pool NPA-NXX-X Holder Information - Block and Subscription Version Data Dependency  
 RR3-111: Deletion of Number Pool NPA-NXX-X Holder Information - NPA-NXX-X Dependency  
 RR3-112: Deletion of Number Pool NPA-NXX-X Holder Information - NPA-NXX-X With an Associated Block Create Scheduled Event

Yes

3.12.7\*

QUESTION:

**TRD FRS Section 3: Sub Section 3.12.7: NPA-NXX-X Holder, First Port Notification**

The following requirements address First Port Notification of Number Pooling NPA-NXX-X holder information.

**Does the Respondent's proposal fully comply with the requirement below in time to meet the published implementation date?**

RR3-228: Number Pool NPA-NXX-X Holder information Notification of First Port

Yes

3.12.8\*

QUESTION:

**TRD FRS Section 3: Sub Section 3.12.8: NPA-NXX-X Holder, Query**

The following requirements address querying of Number Pooling NPA-NXX-X holder information.

**Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?**

RR3-113: Query of Number Pool NPA-NXX-X Holder Information - NPAC Personnel and Service Provider Personnel

RR3-114: Query of Number Pool NPA-NXX-X Holder Information - Return of Queried Data

**ION**  
 RR3-115: Query of Number Pool NPA-NXX-X Holder Information - Return of Queried Data to NPAC Personnel Only  
 RR3-747: Query of NPA-NXX-X Holder Information for Pseudo-LRN - Service Provider Personnel - SOA Interface  
 RR3-748: Query of NPA-NXX-X Holder Information for Pseudo-LRN - Service Provider Personnel - LSMS Interface  
 RR3-749: Query NPA-NXX-X Holder Information for Pseudo-LRN - Service Provider Personnel - LTI

Yes

**3.13****STATEMENT:****TRD FRS Section 3: Sub Section 3.13: Block Information**

The FRS Section 3.13 requirements define how the NPAC/SMS provides a mechanism to create, activate, modify, delete, query and validate pooled block records.

**3.13.1****STATEMENT:****TRD FRS Section 3: Sub Section 3.13.1: Version Status**

This section includes a Number Pool Block Version Status Interaction diagram and descriptions that are described in further detail in the FRS document Section 3.13.1.

**QUESTION:****TRD FRS Section 3: Sub Section 3.13.2: Block Holder, General**

The following requirements address general Number Pool Block holder information.

**Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?**

RR3-119: Number Pool Block Holder Information - NPAC Personnel OpGUI  
 RR3-120: Number Pool Block Holder Information - NPAC Customer EDR Indicator Download of Block Object  
 RR3-121: Number Pool Block Holder Information - NPAC Customer EDR Indicator Download of SVs  
 RR3-122: Number Pool Block Holder Information - NPAC Customer EDR Indicator For Requests But Not Retries  
 RR3-123: Number Pool Block Holder Information - Data Integrity for Block and Pooled Subscription Versions  
 RR3-124: Number Pool Block Holder Information - Service Provider Validation  
 RR3-125: Number Pool Block Holder Information - SPID Validation  
 RR3-126: Number Pool Block Holder Information - NPA-NXX-X Data Validation  
 RR3-127: Number Pool Block Holder Information - NPA-NXX-X Effective Date  
 RR3-128: Number Pool Block Holder Information - LRN Validation  
 RR3-334: Validation of LATA ID for Number Pool Block Creates  
 RR3-335: Validation of LATA ID for Number Pool Block Modifies  
 RR3-129: Number Pool Block Holder Information - Duplicate Block Validation  
 RR3-130: Number Pool Block Holder Information - SOA Origination Values  
 RR3-750: Number Pool Block Holder Information - Service Provider Tunable Value of TRUE for Pseudo-LRN Request  
 RR3-751: Number Pool Block Holder Information - Service Provider Validation for Pseudo-LRN Request of NPA-NXX Ownership

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### 3.13.2\*

RR3-752: Number Pool Block Holder Information - Type Validation for Pseudo-LRN and Active-LRN Request

RR3-753: Number Pooling Block Holder Information - Broadcast of Block Data to EDR Local SMS for Pseudo-LRN

RR3-754: Number Pooling Block Holder Information - Broadcast of Subscription Version Data to non-EDR Local SMS for Pseudo-LRN

RR3-131: Number Pool Block Holder Information - Validation Error

RR3-132: Number Pooling Block Holder Information -Update Notification

RR3-133: Number Pooling Block Holder Information -Update Notification Suppression

RR3-134: Number Pooling Block Holder Information - Failed SP List Update for Block for EDR Local SMS

RR3-135: Number Pooling Block Holder Information - Failed SP List Update for Subscription Versions for non-EDR Local SMS

RR3-136: Number Pooling Block Holder Information - Failed SP List Sent to Block Holder

RR3-137.1: Number Pooling Block Holder Information - Synchronization of Block Status and Subscription Version Status

RR3-137.2: Number Pooling Block Holder Information - Synchronization of Block Status and Subscription Version Status for Block Creation

RR3-137.3: Number Pooling Block Holder Information - Synchronization of Block Status and Subscription Version Status for Block Modification

RR3-137.4: Number Pooling Block Holder Information - Synchronization of Block Status and Subscription Version Status for Block Deletion

RR3-138.1: Number Pooling Block Holder Information - Synchronization of Block Failed SP List and Subscription Version Failed SP List

RR3-138.2: Number Pooling Block Holder Information - Synchronization of Block Failed SP List and Subscription Version Failed SP List for Block Creation, Modification, or Deletion

RR3-139: Number Pooling Block Holder Information - Synchronization of Block Failed SP List and Subscription Version Failed SP List for the last failed Subscription Version in the 1K Block

RR3-140: Number Pooling Block Holder Information - Synchronization of Block Failed SP List and Subscription Version Failed SP List for the Block

RR3-141.1: Number Pooling Block Holder Information - Unique Error Message for Partial Failure or Failed Status Update to a Block for Block Activation Requests Initiated by NPAC Personnel

RR3-141.3: Number Pooling Block Holder Information - Unique Error Message for Active Status With a Failed SP List Update to a Block

RR3-141.4: Number Pooling Block Holder Information - Unique Error Message for Old Status With a Failed SP List Update to a Block

RR3-142.1: Number Pooling Block Holder Information - Block Broadcast Monitoring Mechanism

RR3-142.2: Number Pooling Block Holder Information - Block Broadcast Monitoring Mechanism Completion

RR3-143: Number Pool Block Holder Information - Filters for Blocks

Yes

#### QUESTION:

#### **TRD FRS Section 3: Sub Section 3.13.3: Block Holder, Addition**

The following requirements address addition of Number Pool Block holder information.

**Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?**

RR3-144: Addition of Number Pooling Block Holder Information

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- RR3-145: Addition of Number Pool Block Holder Information - Rejected from LSMS
- RR3-146: Addition of Number Pooling Block Holder Information - Required Data
- RR3-147: Addition of Number Pooling Block Holder Information - Check for pending-like SVs for NPAC Personnel
- RR3-148: Addition of Number Pooling Block Holder Information - Error Message to SOA for pending-like SVs
- RR3-149: Addition of Number Pooling Block Holder Information - Field-level Data Validation
- RR3-698: Addition of Number Pooling Block Holder Information -DPC-SSN Field-level Data Validation
- RR3-699: Addition of Number Pooling Block Holder Information - Validation of DPC-SSNs for Number Pool Block Creates
- RR3-150: Addition of Number Pooling Block Holder Information - Broadcast of Block Data
- RR3-151: Addition of Number Pooling Block Holder Information - Activation Broadcast Complete Timestamp Update
- RR3-152: Addition of Number Pooling Block Holder Information - Status Update
- RR3-153: Addition of Number Pooling Block Holder Information - Failed SP List Update
- RR3-496: Activate Number Pool Block - Send Number Pool Block SV Type Data to Local SMSs
- RR3-497: Activate Number Pool Block - Send Alternative SPID to Local SMSs
- RR3-543: Activate Number Pool Block - Send Last Alternative SPID to Local SMSs
- RR3-544: Activate Number Pool Block - Send Alt-End User Location Value to Local SMSs
- RR3-545: Activate Number Pool Block - Send Alt-End User Location Type to Local SMSs
- RR3-546: Activate Number Pool Block - Send Alt-Billing ID to Local SMSs
- RR3-547: Activate Number Pool Block - Send Voice URI to Local SMSs
- RR3-548: Activate Number Pool Block - Send MMS URI to Local SMSs
- RR3-549: Activate Number Pool Block - Send SMS URI to Local SMSs
- RR3-755: Activate Number Pool Block - Send Notification of Activation of Pseudo-LRN Record

Yes

QUESTION:

**TRD FRS Section 3: Sub Section 3.13.4: Block Holder, Modification**

The following requirements address modification of Number Pool Block holder information.

**Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?**

3.13.4\*

- RR3-154: Block's SOA Origination Indicator - NPAC Personnel OpGUI
- RR3-155: Block's SOA Origination Indicator - Suppress Broadcast
- RR3-156: Block's SOA Origination Indicator - Suppress Creation When False
- RR3-157: Modification of Number Pooling Block Holder Information - Routing Data
- RR3-158: Modification of Number Pool Block Holder Information - Rejected from LSMS
- RR3-159: Modification of Number Pooling Block Holder Information - SPID Validation
- RR3-160: Modification of Number Pooling Block Holder Information - Selection Criteria
- RR3-161: Modification of Number Pooling Block Holder Information - Current status and Failed SP List
- RR3-700: Modify Number Pool Block - DPC-SSN Field-level Data Validation
- RR3-701: Modify Number Pool Block - Validation of DPC-SSNs for Number Pool Block

	<p><b>QUESTION:</b></p> <p><b>RR3-756: Number Pool Block Holder Information - Service Provider Tunable Value of TRUE for Pseudo-LRN Request</b></p> <p><b>RR3-162: Modification of Number Pooling Block Holder Information - Sending Status Update</b></p> <p><b>RR3-163: Modification of Number Pooling Block Holder Information - Broadcast of Block Data</b></p> <p><b>RR3-164: Modification of Number Pooling Block Holder Information - Modify Broadcast Complete Timestamp Update</b></p> <p><b>RR3-165: Modification of Number Pooling Block Holder Information -Status Update</b></p> <p><b>RR3-166: Modification of Number Pooling Block Holder Information - Failed SP List Update</b></p> <p><b>RR3-757: Modify Number Pool Block - Send Notification of Modification of Pseudo-LRN Record</b></p>
Yes	

<h3 style="color: red;">3.13.5*</h3>	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 3: Sub Section 3.13.5: Block Holder, Deletion</b></p> <p>The following requirements address deletion of Number Pool Block holder information.</p> <p><b>Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?</b></p> <p>RR3-169: Deletion of Number Pool Block Holder Information - NPAC</p> <p>RR3-170: Deletion of Number Pool Block Holder Information - SOA</p> <p>RR3-171: Deletion of Number Pool Block Holder Information - Rejected from LSMS</p> <p>RR3-172: Deletion of Number Pool Block Holder Information - LTI</p> <p>RR3-173: Deletion of Number Pooling NPA-NXX-X Holder Information - Sending Status Update to Block</p> <p>RR3-174: Deletion of Number Pool NPA-NXX-X Holder Information - Broadcast of Block Data</p> <p>RR3-175: Deletion of Number Pooling Block Holder Information - Disconnect Complete Timestamp Update</p> <p>RR3-176: Deletion of Number Pooling NPA-NXX-X Holder Information - Status Update to Block</p> <p>RR3-177: Deletion of Number Pooling NPA-NXX-X Holder Information - Failed SP List Update</p> <p>RR3-758: Deletion of Number Pool Block Holder Information - Send Notification of Disconnect of Pseudo-LRN Record</p>
Yes	

<h3 style="color: red;">3.13.6*</h3>	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 3: Sub Section 3.13.6: Block Holder, Query</b></p> <p>The following requirements address querying of Number Pool Block holder information.</p> <p><b>Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?</b></p> <p>RR3-180: Query of Number Pool Block Holder Information - NPAC Personnel</p> <p>RR3-181: Query of Number Pool Block Holder Information - Service Provider Personnel</p> <p>RR3-182: Query of Number Pool Filtered Block Holder Information - Query Block</p>
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**QUESTION:**

RR3-759: Query of Number Pool Block Holder Information for Pseudo-LRN - Service Provider Personnel - SOA Interface  
 RR3-760: Query of Number Pool Block Holder Information for Pseudo-LRN - Service Provider Personnel - LSMS Interface  
 RR3-761: Query of Number Pool Block Holder Information for Pseudo-LRN - Service Provider Personnel - LTI

Yes

**QUESTION:**

**TRD FRS Section 3: Sub Section 3.13.7: Block Holder, Default Routing Restoration**

The following requirements address default routing restoration information in the Number Pool Block holder information.

**3.13.7\***

**Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?**

RR3-183: Number Pool Block Holder Information Use of Number Pool Default Routing Information – Existing Block  
 RR3-184: Number Pool Block Holder Information Use of Number Pool Notification of TN Re-assignment – During De-Pooling

Yes

**QUESTION:**

**TRD FRS Section 3: Sub Section 3.13.8: Block Holder, Re-Send**

The following requirements address re-sending of Number Pool Block holder information.

**Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?**

RR3-185: Re-Send of Number Pool Block Holder Information - Filters for Blocks  
 RR3-186.1: Re-Send of Number Pooling Block Holder Information - NPAC Personnel OpGUI Single Block  
 RR3-186.2: Re-Send of Number Pooling Block Holder Information - NPAC Personnel OpGUI One or All Service Providers  
 RR3-187: Re-Send of Number Pooling Block Holder Information - Use of EDR Indicator for Re-Send data  
 RR3-188: Re-Send of Number Pooling Block Holder Information - Re-Send to EDR Local SMS  
 RR3-189: Re-Send of Number Pooling Block Holder Information - Re-Send to non-EDR Local SMS  
 RR3-190: Re-Send of Number Pooling Block Holder Information - Failed Block Status Set to Sending  
 RR3-191: Re-Send of Number Pooling Block Holder Information - Partial Failure Block Status Set to Sending  
 RR3-192: Re-Send of Number Pooling Block Holder Information - Sending Status Update to Active Block  
 RR3-193: Re-Send of Number Pooling Block Holder Information - Sending Status Update to Old Block  
 RR3-194: Re-Send of Number Pool Block Holder Information - Broadcast of Block Data  
 RR3-195: Re-Send of Number Pooling Block Holder Information - Update to Failed SP List

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RR3-196: Re-Send of Number Pooling Block Holder Information -Status Update to Block after Re-Send  
 RR3-197: Re-Send of Number Pooling Block Holder Information - Failed SP List Update  
 RR3-472: Number Pool Block Failed SP List - Exclusion of a Service Provider from Resend  
 RR3-473: Number Pool Block Failed SP List - Logging of an Excluded Service Provider

Yes

**QUESTION:****TRD FRS Section 3: Sub Section 3.14: Linked Action Replies**

The FRS Section 3.14 requirements define tunable parameters that enable Linked Action Replies to be sent to Service Provider systems that support this functionality, during recovery. The actual Linked Reply functionality is discussed specifically within the Recovery section.

**Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?**

RR3-336: NPAC Customer SOA Linked Replies Indicator  
 RR3-337: NPAC Customer SOA Linked Replies Indicator - Default  
 RR3-338: NPAC Customer SOA Linked Replies Indicator - Modification  
 RR3-339: NPAC Customer Local SMS Linked Replies Indicator  
 RR3-340: NPAC Customer Local SMS Linked Replies Indicator - Default  
 RR3-341: NPAC Customer Local SMS Linked Replies Indicator - Modification  
 RR3-342: Service Provider and Network Data Linked Replies Blocking Factor - Tunable Parameter  
 RR3-343: Service Provider and Network Data Linked Replies Blocking Factor - Tunable Parameter Default  
 RR3-344: Service Provider and Network Data Linked Replies Blocking Factor - Tunable Parameter Modification  
 RR3-345: Subscription Data Linked Replies Blocking Factor - Tunable Parameter  
 RR3-346: Subscription Data Linked Replies Blocking Factor - Tunable Parameter Default  
 RR3-347: Subscription Data Linked Replies Blocking Factor - Tunable Parameter Modification  
 RR3-348: Notification Data Linked Replies Blocking Factor - Tunable Parameter  
 RR3-349: Notification Data Linked Replies Blocking Factor - Tunable Parameter Default  
 RR3-350: Notification Data Linked Replies Blocking Factor - Tunable Parameter Modification  
 RR3-430: Number Pool Block Data Linked Replies Blocking Factor - Tunable Parameter  
 RR3-431: Number Pool Block Data Linked Replies Blocking Factor - Tunable Parameter Default  
 RR3-432: Number Pool Block Data Linked Replies Blocking Factor - Tunable Parameter Modification  
 RR3-351: Service Provider and Network Data Maximum Linked Recovered Objects - Tunable Parameter  
 RR3-352: Service Provider and Network Data Maximum Linked Recovered Objects - Tunable Parameter Default  
 RR3-353: Service Provider and Network Data Maximum Linked Recovered Objects - Tunable Parameter Modification  
 RR3-354: Subscription Data Maximum Linked Recovered Objects - Tunable Parameter  
 RR3-355: Subscription Data Maximum Linked Recovered Objects - Tunable Parameter Default  
 RR3-356: Subscription Data Maximum Linked Recovered Objects - Tunable Parameter Modification  
 RR3-357: Notification Data Maximum Linked Recovered Notifications - Tunable

**3.14\***

	<p><b>ION</b>                  Parameter                  RR3-358: Notification Data Maximum Linked Recovered Notifications - Tunable Parameter Default                  RR3-359: Notification Data Maximum Linked Recovered Notifications - Tunable Parameter Modification                  RR3-433: Number Pool Block Data Maximum Linked Recovered Objects - Tunable Parameter                  RR3-434: Number Pool Block Data Maximum Linked Recovered Objects - Tunable Parameter Default                  RR3-435: Number Pool Block Data Maximum Linked Recovered Objects - Tunable Parameter Modification</p>
Yes	

<b>3.15</b>	<p><b>STATEMENT:</b></p> <p><b>TRD FRS Section 3: Sub Section 3.15: GTT Validation Processing by the NPAC/SMS</b></p> <p>The FRS Section 3.15 requirements describe how the NPAC/SMS performs a variety of GTT validation for Subscription Versions and Number Pool Blocks in an effort to support SS7 signaling guidelines for Local Number Portability. Some GTT validation occurs based on regional tunables that reflect inter-Service Provider service level agreements, while other validations occur globally regardless of any tunable setting.</p>
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<b>3.15.1*</b>	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 3: Sub Section 3.15.1: Sub System Number (SSN) Edit Flag Indicator</b></p> <p>The following requirements address Sub System Number Edit flag indicators related to DPC/SSN edits.</p> <p><b>Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?</b></p> <p>RR3-360: DPC/SSN Edits - CLASS SSN Edit Flag Indicator                  RR3-361: DPC/SSN Edits - LIDB SSN Edit Flag Indicator                  RR3-362: DPC/SSN Edits - CNAM SSN Edit Flag Indicator                  RR3-363: DPC/SSN Edits - ISVM SSN Edit Flag Indicator                  RR3-364: DPC/SSN Edits - WSMSC SSN Edit Flag Indicator                  RR3-365: DPC/SSN Edits - CLASS SSN Edit Flag Indicator - OpGUI Modification                  RR3-366: DPC/SSN Edits - LIDB SSN Edit Flag Indicator - OpGUI Modification                  RR3-367: DPC/SSN Edits - CNAM SSN Edit Flag Indicator - OpGUI Modification                  RR3-368: DPC/SSN Edits - ISVM SSN Edit Flag Indicator - OpGUI Modification                  RR3-369: DPC/SSN Edits - WSMSC SSN Edit Flag Indicator - OpGUI Modification                  RR3-370: DPC/SSN Edits - CLASS SSN Edit Flag Indicator Default                  RR3-371: DPC/SSN Edits - LIDB SSN Edit Flag Indicator Default                  RR3-372: DPC/SSN Edits - CNAM SSN Edit Flag Indicator Default                  RR3-373: DPC/SSN Edits - ISVM SSN Edit Flag Indicator Default                  RR3-374: DPC/SSN Edits - WSMSC SSN Edit Flag Indicator Default                  RR3-375: DPC/SSN Edits - CLASS SSN Rejection for Non-Zero Value                  RR3-376: DPC/SSN Edits - LIDB SSN Rejection for Non-Zero Value                  RR3-377: DPC/SSN Edits - CNAM SSN Rejection for Non-Zero Value                  RR3-378: DPC/SSN Edits - ISVM SSN Rejection for Non-Zero Value                  RR3-379: DPC/SSN Edits - WSMSC SSN Rejection for Non-Zero Value</p>
Yes	

**QUESTION:****TRD FRS Section 3: Sub Section 3.15.2: Global GTT Validations**

The following requirements address global GTT validations.

**Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?**

**3.15.2\***

- RR3-380: Subscription Version - Verify CLASS SSN when CLASS DPC is populated
- RR3-381: Subscription Version - Verify LIDB SSN when LIDB DPC is populated
- RR3-382: Subscription Version - Verify CNAM SSN when CNAM DPC is populated
- RR3-383: Subscription Version - Verify ISVM SSN when ISVM DPC is populated
- RR3-384: Subscription Version - Verify WSMSC SSN when WSMSC DPC is populated
- RR3-385: Subscription Version - Verify CLASS DPC when CLASS SSN is populated
- RR3-386: Subscription Version - Verify LIDB DPC when LIDB SSN is populated
- RR3-387: Subscription Version - Verify CNAM DPC when CNAM SSN is populated
- RR3-388: Subscription Version - Verify ISVM DPC when ISVM SSN is populated
- RR3-389: Subscription Version - Verify WSMSC DPC when WSMSC SSN is populated
- RR3-390: Number Pool Block - Verify CLASS SSN when CLASS DPC is populated
- RR3-391: Number Pool Block - Verify LIDB SSN when LIDB DPC is populated
- RR3-392: Number Pool Block - Verify CNAM SSN when CNAM DPC is populated
- RR3-393: Number Pool Block - Verify ISVM SSN when ISVM DPC is populated
- RR3-394: Number Pool Block - Verify WSMSC SSN when WSMSC DPC is populated
- RR3-395: Number Pool Block - Verify CLASS DPC when CLASS SSN is populated
- RR3-396: Number Pool Block - Verify LIDB DPC when LIDB SSN is populated
- RR3-397: Number Pool Block - Verify CNAM DPC when CNAM SSN is populated
- RR3-398: Number Pool Block - Verify ISVM DPC when ISVM SSN is populated
- RR3-399: Number Pool Block - Verify WSMSC DPC when WSMSC SSN is populated
- RR3-400: DPC/SSN Edits - CLASS validation failure
- RR3-401: DPC/SSN Edits - LIDB validation failure
- RR3-402: DPC/SSN Edits - CNAM validation failure
- RR3-403: DPC/SSN Edits - ISVM validation failure
- RR3-404: DPC/SSN Edits - WSMSC validation failure
- RR3-405: DPC/SSN Edits - CLASS DPC and SSN Required Data for Modification
- RR3-406: DPC/SSN Edits - LIDB DPC and SSN Required Data for Modification
- RR3-407: DPC/SSN Edits - CNAM DPC and SSN Required Data for Modification
- RR3-408: DPC/SSN Edits - ISVM DPC and SSN Required Data for Modification
- RR3-409: DPC/SSN Edits - WSMSC DPC and SSN Required Data for Modification
- RR3-410: DPC/SSN Edits - CLASS DPC and SSN Required Data for Mass Update
- RR3-411: DPC/SSN Edits - LIDB DPC and SSN Required Data for Mass Update
- RR3-412: DPC/SSN Edits - CNAM DPC and SSN Required Data for Mass Update
- RR3-413: DPC/SSN Edits - ISVM DPC and SSN Required Data for Mass Update
- RR3-414: DPC/SSN Edits - WSMSC DPC and SSN Required Data for Mass Update
- RR3-415: Subscription Version - Verify All Routing Data When Modifying Non-GTT Data
- RR3-416: Subscription Version - Verify All Routing Data When Modifying CLASS Data
- RR3-417: Subscription Version - Verify All Routing Data When Modifying LIDB Data
- RR3-418: Subscription Version - Verify All Routing Data When Modifying CNAM Data
- RR3-419: Subscription Version - Verify All Routing Data When Modifying ISVM Data
- RR3-420: Subscription Version - Verify All Routing Data When Modifying WSMSC Data
- RR3-421: Number Pool Block - Verify All Routing Data When Modifying Non-GTT Data
- RR3-422: Number Pool Block - Verify All Routing Data When Modifying CLASS Data
- RR3-423: Number Pool Block - Verify All Routing Data When Modifying LIDB Data
- RR3-424: Number Pool Block - Verify All Routing Data When Modifying CNAM Data
- RR3-425: Number Pool Block - Verify All Routing Data When Modifying ISVM Data
- RR3-426: Number Pool Block - Verify All Routing Data When Modifying WSMSC Data

	<p><b>QUESTION:</b></p> <p>RR3-427: Subscription Version - Verify All Routing Data When Activating a Subscription Version</p> <p>RR3-428: Number Pool Block - Verify All Routing Data When Activating a Number Pool Block</p> <p>RR3-429: DPC/SSN Edits - Errors on DPC and SSN Required Data for Mass Update</p>
Yes	

<b>3.16*</b>	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 3: Sub Section 3.16: Low-Tech Interface DPC-SSN Validation Processing by the NPAC/SMS</b></p> <p>These FRS Section 3.16 requirements describe how the NPAC/SMS performs DPC-SSN validation for Subscription Versions and Number Pool Blocks that are submitted via the Low-Tech Interface or NPAC Administrative Interface. This validation occurs based on regional tunables. These edits ensure that values specified are valid according to the Service Provider DPC source data.</p> <p><b>Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?</b></p> <p>RR3-702: Regional LTI DPC-SSN Validation Indicator - Tunable Parameter</p> <p>RR3-703: Regional LTI DPC-SSN Validation Indicator - Tunable Parameter Default</p> <p>RR3-704: Regional LTI DPC-SSN Validation Indicator - Tunable Parameter Modification</p> <p>RR3-705: DPC-SSN Entries Information Source for LTI or NPAC Personnel entries</p> <p>RR3-706: DPC-SSN Entries Information Maintenance</p> <p>RR3-707: DPC-SSN Entries Information - Multiple Entries</p>
Yes	

#### 4. TRD FRS Section 4: SERVICE PROVIDER DATA ADMINISTRATION

<b>4.1*</b>	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 4: Sub Section 4.1: Service Provider Data Administration and Management</b></p> <p>Service Provider Data Administration functions allow NPAC personnel to receive and record data needed to identify authorized LNP Service Providers. The Service Provider data indicates the LNP Service Providers and includes location, contact name, security, routing, and network interface information.</p> <p>Service Provider Administration supports functionality to manage Service Provider data. There can be only one instance of Service Provider data for a specific LNP Service Provider.</p> <p><b>Does the Respondent's proposal fully comply with the requirement below in time to meet the published implementation date?</b></p> <p>AR1-1: Service Provider ID</p>
Yes	

	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 4: Sub Section 4.1.1: User Functionality</b></p> <p><b>Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?</b></p>
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<b>4.1.1*</b>	<p style="text-align: center;"><b>FUNCTION</b></p> <ul style="list-style-type: none"> <li>R4-1: Create Service Providers</li> <li>R4-2: Modify Service Providers</li> <li>R4-3: Delete Service Providers</li> <li>R4-4: View of Service Provider Data</li> <li>R4-5.1: View List of Service Provider Subscriptions</li> <li>R4-5.2: Authorized Service Providers View Their Own Data</li> <li>RX4-2: Authorized Service Providers Modify Their Own Data</li> <li>RR4-4.1: Broadcast NPAC Customer Names</li> </ul>
Yes	

<b>4.1.2</b>	<p><b>STATEMENT:</b></p> <p><b>TRD FRS Section 4: Sub Section 4.1.2: System Functionality</b></p> <p>This section describes NPAC/SMS functionality required to support the NPAC personnel requests described in the above section. The following specifies user requests and lists the NPAC/SMS functionality needed to support those requests.</p>
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<b>4.1.2.1*</b>	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 4: Sub Section 4.1.2.1: Service Provider Data Creation</b></p> <p>NPAC personnel can request that Service Provider data be created in the NPAC/SMS. The functionality described below enables a new instance of Service Provider data for a Service Provider to be created, provided that no other Service Provider data exists for the Service Provider.</p> <p><b>Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?</b></p> <ul style="list-style-type: none"> <li>R4-6: New Service Provider ID</li> <li>R4-7.1: Examine for Duplicate Service Provider ID</li> <li>R4-7.2: Error notification of Duplicate Service Provider</li> <li>R4-8: Service Provider Data Elements</li> <li>R4-9: Service Provider data validation</li> <li>R4-10: Notification of successful add for new Service Provider</li> <li>R4-11: Failure notification of Service Provider creation</li> <li>RR4-9: Service Provider Type SOA Indicator</li> <li>RR4-10: Service Provider Type SOA Indicator Default</li> <li>RR4-11: Service Provider Type SOA Indicator Modification</li> <li>RR4-12: Service Provider Type LSMS Indicator</li> <li>RR4-13: Service Provider Type LSMS Indicator Default</li> <li>RR4-14: Service Provider Type LSMS Indicator Modification</li> <li>RR4-15: Service Provider Type Attribute Modification Restriction</li> </ul>
Yes	

<b>4.1.2.2*</b>	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 4: Sub Section 4.1.2.2: Service Provider Data Modification</b></p> <p>NPAC personnel and the SOA to NPAC/SMS interface and the NPAC/SMS to Local SMS interface can request that Service Provider data be modified in the NPAC/SMS. The functionality described below enables the user to modify data for the Service Provider.</p> <p><b>Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?</b></p>
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	<p><b>QUESTION:</b></p> <p>R4-13: Service Provider Key selection for modifying Service Provider data                  R4-14: Error notification of invalid Service Provider ID or Name during Modify                  R4-15.1: Modify restrictions on Service Provider data - Service Providers                  R4-15.2: Modify restrictions on Service Provider data - NPAC Operations Personnel                  R4-16: Re-validation of Service Provider data after Modify                  R4-17: Modify Validation Error Message</p>
Yes	

<b>4.1.2.3*</b>	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 4: Sub Section 4.1.2.3: Delete Service Provider Data</b></p> <p>NPAC personnel can request that the Service Provider data be deleted. Deleted Service Provider data will be written to a history file. The functionality described below enables a user to delete data for the Service Provider.</p> <p><b>Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?</b></p> <p>R4-20: Service Provider key for delete                  R4-21: Error Message for Delete key search                  R4-22.1: No Subscription Versions during Service Provider Delete                  R4-22.2: Subscription during Service Provider Delete                  R4-22.3: Service Provider subscription restrictions during Network Data Delete.</p>
Yes	

<b>4.1.3</b>	<p><b>STATEMENT:</b></p> <p><b>TRD FRS Section 4: Sub Section 4.1.3: Service Provider Queries</b></p> <p>The query functionality discussed in this section will give users the ability to view Service Provider and Subscription data. A user may not be able to modify a particular data item because they do not have the proper security permissions, therefore the data is made available via NPAC/SMS for read only purposes.</p>
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<b>4.1.3.1*</b>	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 4: Sub Section 4.1.3.1: User Functionality</b></p> <p><b>Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?</b></p> <p>R4-24.1: Display of Service Provider ID and related subscription data                  R4-24.2: Display of LRN and related subscription data                  R4-24.3: Display of NPA-NXX and related subscription data</p>
Yes	

<b>4.1.3.2*</b>	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 4: Sub Section 4.1.3.2: System Functionality</b></p> <p>The following specifies NPAC/SMS functionality needed to support the user requests described above in TRD FRS Section 4: Sub Section 4.1.3.</p> <p><b>Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?</b></p> <p>R4-25: Service Provider as Key for queries                  R4-26.1: Error message for unknown Service Provider during a query</p>
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	<p><b>ION</b></p> <p>R4-26.2: Results returned to Service Provider during a query                  R4-27: Service Provider Query Types                  R4-28: Service Provider Information Message during query                  RR4-16: Service Provider Data Information Service Provider Query - Support for Service Provider Type Data</p>
Yes	

<b>4.1.4*</b>	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 4: Sub Section 4.1.4: Service Provider Accepted SPID List</b></p> <p>Pseudo-LRN functionality allows a Service Provider to specify the list of SPID (including their own) that they wish to receive pseudo-LRN records in a download from the NPAC/SMS.</p> <p><b>Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?</b></p> <p>RR4-17: Add SPID to Pseudo-LRN Accepted SPID List by NPAC Personnel on behalf of a Service Provider                  RR4-18: Delete SPID from Pseudo-LRN Accepted SPID List by NPAC Personnel on behalf of a Service Provider                  RR4-19: Query SPID from Pseudo-LRN Accepted SPID List by NPAC Personnel on behalf of a Service Provider</p>
Yes	

<b>4.2*</b>	<p><b>QUESTION:</b></p> <p>TRD FRS Section 4: Sub Section 4.2: Additional Requirements</p> <p><b>Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?</b></p> <p>RN4-1: Service Provider Network Data Addition/Deletion                  RR4-1: Removal of Service Provider with Respect to LRNs                  RR4-2: Removal of Service Provider with Respect to NPA-NXXs                  RR4-3.1: Removal of NPA-NXX - Subscription Version Check                  RR4-3.2: Removal of NPA-NXX - NPA-NXX-X Check                  RR4-4.2.1: Removal of LRN - Subscription Version Check                  RR4-4.2.2: Removal of LRN - Block Check                  RR4-5: Duplicate NPA-NXX Validation                  RR4-6: Duplicate NPA-NXX Validation - Error Processing                  RR4-7: Duplicate LRN Validation                  RR4-8: Duplicate LRN Validation - Error Processing</p>
Yes	

## 5. TRD FRS Section 5 SUBSCRIPTION MANAGEMENT

	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 5: Sub Section 5.1: Subscription Version Management</b></p> <p>Subscription Management functions allow NPAC personnel and SOA to NPAC/SMS interface users to specify data needed for ported numbers. The subscription data indicates how local number portability should operate to meet subscribers' needs. These functions will be accessible to authorized service providers via an interface (i.e., the SOA to NPAC SMS interface) from their operations systems to the NPAC/SMS and will also be accessible</p>
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to (and performed by) NPAC personnel.

Subscription Management supports functionality to manage multiple versions of subscription data. See Section 5.1.1, Subscription Version Management, for more details on the different states of a version.

**5.1\***

**Does the Respondent's proposal fully comply with these requirements below in time to meet the published implementation date?**

- RN5-1: Subscription Version Status - Only One Per Subscription
- RN5-2: Subscription Version Status - Only One Active Version
- RN5-3: Subscription Version Status - Multiple Old/Canceled
- RR5-113: TN Range Notification Information - Service Provider TN Range Notification Indicator Sending of TN Range Notifications
- RR5-114: TN Range Notification Information - Service Provider TN Range Notification Indicator Suppression of TN Range Notifications
- AR5-3: Changing of TN Range Notification Indicator while Notifications are Queued
- RR5-115: TN Range Notification Information - Single TN Range Notifications
- RR5-116: TN Range Notification Information - Breakup of TN Range Notifications
- RR5-173: TN Range Notification Information - Breakup of TN Range Notifications

Yes

**STATEMENT:**

**TRD FRS Section 5: Sub Section 5.1.1: Subscription Version Management**

Subscription Version management provides functionality to manage multiple time sensitive views of subscription data. This section addresses version management for LNP and the user and system functionality needed for subscription administration. In this context a version may be defined as time sensitive subscription data.

**5.1.1**

At any given time, a Subscription Version in the SMS can have one of several statuses (e.g., active, old) and may change status depending on results of different SMS processes (e.g., modification, activation). This section describes the different statuses that a version can have and the SMS processes that can change the status. This section also discusses functionality and data that is needed for Subscription Management.

**QUESTION:**

**TRD FRS Section 5: Sub Section 5.1.1.1: Version Status**

This section references Subscription Version Status Interaction Descriptions and Diagrams. (Figure 5-1 and Table 5-1)

**Does the Respondent's proposal fully comply with these requirements below in time to meet the published implementation date?**

**5.1.1.1\***

- R5 1.1: Subscription Version Statuses
- R5-2.1: Old Subscription Retention - Tunable Parameter
- R5-2.2: Old Subscription Retention - Tunable Parameter Modification
- R5-2.3: Old Subscription Retention - Tunable Parameter Default
- R5-3.1: Cancel-Pending Subscription Retention - Tunable Parameter
- R5-3.2: Cancel-Pending Subscription Retention - Tunable Parameter Modification
- R5-3.3: Cancel-Pending Subscription Retention - Tunable Parameter Default
- R5-3.4: Cancel-Conflict Subscription Retention - Tunable Parameter
- R5-3.5: Cancel-Conflict Subscription Retention - Tunable Parameter Modification
- R5-3.6: Cancel-Conflict Subscription Retention - Tunable Parameter Default

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	<p>ION</p> <p>RR5-1.1: Pending Subscription Retention - Tunable Parameter                  RR5-1.2: Pending Subscription Retention - Tunable Parameter Modification                  RR5-1.3: Pending Subscription Retention - Tunable Parameter Default                  RR5-1.4: Pending Subscription Retention - Tunable Parameter Expiration                  R5 5: Subscription Versions Creation for TN Ranges                  R5-6: Subscription Administration Transaction Logging                  RR5-182: Create/Modify Subscription Version - Medium Timers - Timer Type                  RR5-183: Create/Modify Subscription Version - Medium Timers - Business Type</p>
Yes	

<b>5.1.2</b>	<p>STATEMENT:</p> <p><b>TRD FRS Section 5: Sub Section 5.1.2: Subscription Administration Requirements</b></p>
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<b>5.1.2.1*</b>	<p>QUESTION:</p> <p><b>TRD FRS Section 5: Sub Section: 5.1.2.1: User Functionality</b></p> <p><b>Does the Respondent's proposal fully comply with these requirements below in time to meet the published implementation date?</b></p> <p>R5-7: Creating a Subscription Version                  RR5-55: Create Pending Provider Port - NPAC Personnel or Service Provider After Block Activation                  R5 8.1: Modifying a Subscription Version                  R5-9: Activating a Subscription version                  R5-10.1: Setting a Subscription Version to Conflict                  R5-10.2: Subscription Version Conflict Status Rule                  R5-11: Disconnecting a Subscription Version                  R5-12: Canceling a Subscription Version                  R5-13: Querying a Subscription Version                  RR5-197: Create Subscription Version - Validation of DPC-SSNs for Subscription Version Creates</p>
Yes	

<b>5.1.2.2</b>	<p>STATEMENT:</p> <p><b>TRD FRS Section 5: Sub Section 5.1.2.2: System Functionality</b></p> <p>This section describes NPAC/SMS functionality required to support NPAC personnel and SOA to NPAC/SMS interface user requests defined in the above section.</p>
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<b>5.1.2.2.1*</b>	<p>QUESTION:</p> <p><b>TRD FRS Section 5: Sub Section 5.1.2.2.1: Subscription Version Creation</b></p> <p>This section provides the requirements for the Subscription Version Create functionality, which is executed upon the user requesting to create a Subscription Version.</p> <p><b>Does the Respondent's proposal fully comply with these requirements in time to meet the published implementation date?</b></p> <p>RR5-3: Create Subscription Version - Notify NPA-NXX First Usage                  RR5-53: Create Subscription Version - Notify NPA-NXX First Usage of a New Telcordia08042</p>
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 NPA-NXX involved in an NPA Split  
 RR5-120: Validation of LATA ID for Subscription Version Creates  
 RR5-130: Create "Porting to Original" Subscription Version - New Service  
 Provider ID and Code Holder Match  
 RR5-162: Addition of Subscription Version Due Date - Validation

Yes

**QUESTION:**

**TRD FRS Section 5: Sub Section 5.1.2.2.1.1: Subscription Version Creation - Inter-Service Provider Ports**

This section provides the Subscription Version Creation requirements for performing an Inter-Service Provider port of a TN. There are two types of Inter-Service Provider ports: A port of a TN to a new Service Provider from the Old, or a "porting to original" port. A "porting to original" port implies that all porting data will be removed from the Local SMSs and the TN will revert to the default routing, which ultimately results in the TN returning to the original "donor" Service Provider.

**Does the Respondent's proposal fully comply with these requirements in time to meet the published implementation date?**

R5-14: Create Subscription Version - Old Service Provider Input Data  
 R5-15.1: Create "Inter-Service Provider Port" Subscription Version - New Service Provider Input Data  
 R5-15.2: Create "Inter-Service Provider porting to original" Subscription Version - New Service Provider Input Data  
 R5-16: Create Inter-Service Provider (non-PTO) Subscription Version - New Service Provider Optional input data  
 RR5-179: Create Inter-Service Provider PTO Subscription Version - New Service Provider Data Attributes - Rejected  
 R5-18.1: Create Subscription Version - Field-level Data Validation  
 R5-18.2: Create Subscription Version - Due Date Consistency Validation  
 R5-18.4: Create Subscription Version - Ported TN NPA-NXX Validation  
 RR5-119: Subscription Version - Due Date Validation for Second/Concurrence Create Message for a Subscription Version Inter-Service Provider Port  
 R5-18.5: Create Subscription Version - Service Provider ID Validation  
 R5-18.6: Create Subscription Version - LRN Validation  
 R5-18.7: Create Subscription Version - Originating Service Provider Validation  
 R5-18.8: Create Subscription Version - Duplicate Authorization Validation  
 R5-18.9: Create Subscription Version - Service Provider ID Validation  
 R5-18.10: Create Subscription Version - Status Change Cause Code Validation  
 R5 19.1: Create Subscription Version - Old Service Provider ID Validation  
 R5-19.2: Create Subscription Version - Old Service Provider ID Validation - No Active Subscription Version  
 R5-19.3: Create Subscription Version - Timer Type Selection  
 R5-19.4: Create Subscription Version - Timer Type Selection - Mismatch  
 R5-19.5: Create Subscription Version - Business Hours and Days Selection  
 R5-19.6: Create Subscription Version - Business Hours and Days Selection - Mismatch  
 R5-20.1: Create Subscription Version - Validation Failure Notification  
 R5-20.2: Create Subscription Version - Validation Failure - No Update  
 R5-20.3: Create Subscription Version - Validation Failure - No Create

**5.1.2.2.1.1\***

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- R5-20.4: Create Subscription Version - Validation Success - Update Existing
- R5-20.5: Create Subscription Version - Validation Success - Create New
- R5-21.1: Initial Concurrence Window - Tunable Parameter
- R5-21.2: Initial Concurrence Window - Tunable Parameter Modification
- R5-21.3: Long Initial Concurrence Window - Tunable Parameter Default
- R5-21.4: Short Initial Concurrence Window - Tunable Parameter Default
- R5-21.6: Create Subscription Version - Set to Pending
- R5-21.7: Create Subscription Version - Notify User Success
- RR5-2.1: Create Subscription Version - Set to Conflict
- RR5-2.2: Create Subscription Version - Set Conflict Timestamp
- RR5-2.3: Create Subscription Version - Conflict Notification
- RR5-2.4: Cause Code in Conflict Notification - Creation
- R5-22: Create Subscription Version - Initial Concurrence Window Tunable Parameter Expiration
- R5-23.1: Final Concurrence Window - Tunable Parameter
- R5-23.2: Final Concurrence Window Tunable - Tunable Parameter Modification
- R5-23.3: Long Final Concurrence Window Tunable - Tunable Parameter Default
- RR5-52: Short Final Concurrence Window Tunable - Tunable Parameter Default
- RR5-117: New Service Provider Final Create Window Expiration Notification
- RR5-118: New Service Provider Final Create Window Expiration Notification - Sending of Cause Code
- RR5-56: Create Inter-Service Provider Regular Port and Port-to-Original Port - NPAC and SOA After NPA-NXX-X Creation
- RR5-57: Create Intra- or Inter-Service Provider Port-to-Original Subscription Version - After Block Activation
- RR5-198: Create "Inter-Service Provider Port" Subscription Version - DPC-SSN Field-level Data Validation
- R5 23.5: Activation without Old Service Provider Authorization
- R5-23.6: Activation without Old Service Provider Authorization - Time restriction
- RR5-23.3: Old Service Provider Final Concurrence Timer Expiration Notification - Old SP
- RR5-184: Old Service Provider Final Concurrence Timer Expiration Notification - New SP

Yes

**QUESTION:**

**TRD FRS Section 5: Sub Section 5.1.2.2.1.2: Subscription Version Creation - Intra-Service Provider Ports**

This section provides the Subscription Version Creation requirements for performing an Intra-Service Provider port of a TN. An Intra-Service Provider port of a TN is when a TN is ported to a new location within the current Service Provider network (i.e., the routing data is modified, but the Service Provider remains the same). A "port to original" for an Intra-Service Provider port should be handled by submission of an Intra-Service Provider "port to original" subscription version request to the NPAC/SMS.

**Does the Respondent's proposal fully comply with these requirements in time to meet the published implementation date?**

- RR5-4: Create "Intra-Service Provider Port" Subscription Version - Current Service Provider Input Data
- RR5-122: Create "Intra-Service Provider porting to original Port"

**5.1.2.2.1.2\***

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- Subscription Version - New Service Provider Input Data
- RR5-5: Create "Intra-Service Provider Port" (non-PTO) Subscription Version - Current Service Provider Optional Input Data
- RR5-180: Create "Intra-Service Provider Port" (PTO) Subscription Version - Current Service Provider Data Attributes Rejected
- RR5-6.1: Create "Intra-Service Provider Port" Subscription Version - Field-level Data Validation
- RR5-6.2: Create "Intra-Service Provider Port" Subscription Version - New and Old Service Provider ID Match
- RR5-6.4: Create "Intra-Service Provider Port" Subscription Version - Ported TN NPA-NXX Validation
- RR5-6.5: Create "Intra-Service Provider Port" Subscription Version - LRN Validation
- RR5-6.6: Create "Intra-Service Provider Port" Subscription Version - Duplicate Authorization Validation
- RR5-6.7: Create "Intra-Service Provider Port" Subscription Version - Old Service Provider ID Validation
- RR5-6.8: Create "Intra-Service Provider Port" Subscription Version - No Active Version
- RR5-6.9: Create "Intra-Service Provider Port" Subscription Version - Old Service Provider ID Validation - No Active Subscription Version
- RR5-7.1: Create "Intra-Service Provider Port" Subscription Version - Validation Failure Notification
- RR5-7.2: Create "Intra-Service Provider Port" Subscription version - Validation Failure - No Create
- RR5-8: Create "Intra-Service Provider Port" Subscription version - Set to Pending
- RR5-9: Create "Intra-Service Provider Port" Subscription version - Notify User of Creation
- RR5-58: Create Intra-Service Provider Port - NPAC Personnel After NPA-NXX-X Creation
- RR5-59: Create Intra-Service Provider Port - SOA After NPA-NXX-X Creation
- RR5-121: Create Intra-Service Provider Port-to-Original Port - NPAC and SOA After NPA-NXX-X Creation
- RR5-218: No Create for Non-Active TN - NPAC Personnel or Service Provider while Block contains a Failed SP List
- RR5-185: Create Intra-Service Provider Port - Medium Timers
- RR5-199: Create "Intra-Service Provider Port" Subscription Version - DPC-SSN Field-level Data Validation
- RR5-203: Create "Intra-Service Provider Port" Subscription Version - Service Provider Tunable Value of TRUE for Pseudo-LRN Request
- RR5-204: Create "Intra-Service Provider Port" Subscription Version - Rejection of Pseudo-LRN Request for Active Inter- or Intra-Subscription Version with Active LRN
- RR5-205: Create "Intra-Service Provider Port" Subscription Version - Rejection of Pseudo-LRN Request for NPA-NXX-X
- RR5-206: Create "Intra-Service Provider Port" Subscription Version - Notify User of Creation of Pseudo-LRN Record

Yes

**QUESTION:**

**TRD FRS Section 5: Sub Section 5.1.2.2.2: Subscription Version Modification**

This section provides the requirements for the Subscription Version Modification functionality, which is executed upon the user requesting modification of

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**5.1.2.2.2\***

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the Subscription Version.

**Does the Respondent's proposal fully comply with these requirements in time to meet the published implementation date?**

RR5-123: Validation of LATA ID for Subscription Version Modifies  
 R5-25: Modify Subscription Version - Invalid Version Status Notification  
 RR5-200: Modify "Inter-Service Provider Port" Subscription Version - DPC-SSN Field-level Data Validation  
 RR5-201: Modify "Intra-Service Provider Port" Subscription Version - DPC-SSN Field-level Data Validation  
 RR5-202: Modify Subscription Version - Validation of DPC-SSNs for Subscription Version Creates  
 RR5-207: Modify "Intra-Service Provider Port" Subscription Version - Service Provider Tunable Value of TRUE for Pseudo-LRN Request

Yes

**5.1.2.2.2.1\***

QUESTION:

**TRD FRS Section 5: Sub Section 5.1.2.2.2.1: Modification of a Pending or Conflict Subscription Version**

**Does the Respondent's proposal fully comply with these requirements in time to meet the published implementation date?**

R5-26: Modify Subscription Version - Version Identification  
 RR5-186: Modify Subscription Version - New Service Provider - Medium Timers  
 R5-27.1: Modify Subscription Version - New Service Provider Data Values  
 R5-27.2: Modify "porting to original" Subscription Version - New Service Provider Data Values  
 RR5-187: Modify Subscription Version - Old Service Provider - Medium Timers  
 R5-27.3: Modify Subscription Version - Old Service Provider Data Values  
 R5-27.4: Old Service Provider authorization Flag Modification to False  
 R5-28: Modify (non-PTO) Subscription Version - New Service Provider Optional input data  
 RR5-181: Modify (PTO) Subscription Version - New Service Provider Optional input data  
 R5-29.1: Modify Subscription Version - Field-level Data Validation  
 RR5-163: Modification of Subscription Version Due Date - Validation  
 R5-29.3: Modify Subscription Version - LRN Validation  
 R5-29.4: Modify Subscription Version - Originating Service Provider Validation  
 R5-29.5: Modify Subscription Version - Status Change Cause Code Validation  
 RR5-188: Modify Subscription Version - Medium Timers - Timer Type Change  
 RR5-189: Modify Subscription Version - Medium Timers - Restart T1 Timer  
 R5 30.1: Modify Subscription Version - Validation Failure Notification  
 R5-30.2: Modify Subscription Version - Validation Error Processing  
 R5-31.3: Modify Subscription Version - Successful Modification Notification  
 RR5-208: Modify "Intra-Service Provider Port" Subscription Version - Send Notification of Modification of Active Pseudo-LRN Record  
 RR5-10.1: Modify Subscription Version - Set Conflict Timestamp  
 RR5-10.2: Modify Subscription Version - Conflict Notification  
 RR5-10.3: Modify Subscription Version - Cause Code in Notification

Yes

ION

## QUESTION:

**TRD FRS Section 5: Sub Section 5.1.2.2.2: Modification of an Active/Disconnect Pending Subscription Version****Does the Respondent's proposal fully comply with these requirements in time to meet the published implementation date?**

RR5-136: Modify Active Subscription Version with a Failed-SP List - Invalid Request Notification

RR5-11: Modify Active/Disconnect-Pending Subscription Version - Service Provider Owned

R5-35: Modify Active Subscription Version - Version Identification

R5-36: Modify Active Subscription Version - Input Data

R5-37: Active Subscription Version - New Service Provider Optional input data.

R5-38.1: Modify Active Subscription Version - Field-level Data Validation

R5-38.2: Modify Active Subscription Version - LRN Validation

RR5-124: Modify Disconnect Pending Subscription Version - Input Data

RR5-125: Modify Disconnect Pending Subscription Version - Field-level Data Validation

RR5-126: Modify Disconnect Pending Subscription Version - Valid Dates for CDD and ERD

RR5-127: Modify Disconnect Pending Subscription Version - Version Identification

RR5-128: Modify Disconnect Pending Subscription Version - Rejection for Empty CDD

**5.1.2.2.2\***

R5-39.1: Modify Active/Disconnect Pending Subscription Version - Validation Failure Notification

R5-39.2: Modify Active/Disconnect Pending Subscription Version - Validation Error Processing

R5 40.1: Modify Active Subscription Version - Broadcast Date/Time Stamp

R5-40.3: Modify Active Subscription Version - Modification Success User Notification

R5-40.4: Modify Active Subscription Version - Broadcast complete Time Stamp

R5 41: Activation Of A Modified Subscription Version

RR5-129: Activation Of A Modified Disconnect Pending Subscription Version when ERD is Modified to Current Date

RR5-41.1: Broadcast Modified Active Subscription - Local SMS Identification

RR5-41.2: Broadcast Modified Active Subscription - Send to Local SMSs

RR5-41.3: Broadcast Modified Active Subscription - Set to Sending

RR5-41.4: Modify Active Subscription Version - Return Status

RR5 41.5: Modify Active Subscription Activation Retry Attempts - Tunable Parameter

RR5-41.6: Modify Active Subscription Activation Retry Interval - Tunable Parameter

RR5-41.7: Modify Active Subscription Version Failure Retry

RR5-41.8: Modify Active Subscription Version Failure - Status Sending

RR5-41.9: Modify Active Subscription Version Failure - Local SMS Identification

RR5-41.10: Subscription Version Activation - Resend to Failed Local SMSs

RR5-41.11: Modify Active Subscription Version - Failed Local SMS Notification Current Service Provider

Yes

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<b>5.1.2.2.3</b>	<p><b>STATEMENT:</b></p> <p><b>TRD FRS Section 5: Sub Section 5.1.2.2.3: Subscription Version Conflict</b></p> <p>This section provides the requirements for the functionality to place a Subscription Version in to conflict and remove it from conflict</p>
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<b>5.1.2.2.3.1*</b>	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 5: Sub Section 5.1.2.2.3.1: Placing Subscription Version in Conflict</b></p> <p><b>Does the Respondent's proposal fully comply with these requirements in time to meet the published implementation date?</b></p> <p>R5-42: Conflict Subscription Version - Version Identification  R5-43.1: Conflict Subscription Version - Invalid Status Notification  R5-43.2: Conflict Subscription Version - No Cause Code Notification  RR5-42.1: Conflict Subscription Version - Old Service Provider Number Restriction  RR5-42.2: Conflict Subscription Version - Conflict Restriction Window  RR5-50: Conflict Subscription Version - Conflict Restriction Window- Old Service Provider  RR5-51: Conflict Subscription Version - Conflict Restriction Rules for Old Service Provider  AR5-2: Conflict Restriction Window Tunable due date value  RR5-42.3: Conflict Subscription Version - Conflict Restriction Window Tunable  RR5-42.4: Conflict Subscription Version - Conflict Restriction Window Tunable Default  RR5-42.5: Conflict Subscription Version - Short Timer Usage  R5-44.1: Conflict Subscription Version - Set Status to Conflict  R5-44.2: Conflict Subscription Version - Set Conflict Date and Time  R5-44.3: Conflict Subscription Version - Successful Completion Message  R5-45.1: Conflict Expiration Window - Tunable Parameter  R5-45.2: Conflict Expiration Window - Tunable Parameter Default  R5-45.3: Conflict Expiration Window - Tunable Parameter Modification  R5-45.4: Conflict Subscription Version - Set to Cancel  R5-45.5: Conflict Subscription Version - Set Cancellation Date Timestamp  R5-45.6: Conflict Subscription Version - Inform Service Providers of Cancel Status</p> <p>Yes</p>
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	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 5: Sub Section 5.1.2.2.3.2: Removing a Subscription Version from Conflict</b></p> <p><b>Does the Respondent's proposal fully comply with these requirements in time to meet the published implementation date?</b></p> <p>R5-46: Conflict Resolution Subscription Version - Version Identification  R5-47: Conflict Resolution Subscription Version - Invalid Status Notification  R5-50.1: Conflict Resolution Subscription Version - Set Status  R5-50.2: Conflict Resolution Subscription Version - Status Message  RR5-12.1: Conflict Resolution Subscription Version - Inform Both Service Providers of Pending Status  RR5-12.3: Conflict Resolution New Service Provider Restriction Tunable</p>
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**5.1.2.2.3.2\***

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Parameter  
 RR5-12.4: Long Conflict Resolution New Service Provider Restriction - Tunable Parameter Default  
 RR5-12.5: Conflict Resolution New Service Provider Restriction Tunable Parameter Modification  
 RR5-12.6: Short Conflict Resolution New Service Provider Restriction - Tunable Parameter Default  
 RR5-14: Conflict Resolution Acknowledgment - Update Conflict Resolution Date and Time Stamp  
 RR5-137: Conflict Resolution Subscription Version - Restriction for Cause Code Values  
 RR5-138: Conflict Resolution Subscription Version -Conflict Resolution New Service Provider Restriction Tunable Application  
 RR5-139: Conflict Resolution Subscription Version - Restricted Cause Code Notification  
 RR5-168: Regional Prevent Conflict Resolution 50/51 Tunable  
 RR5-169: Regional Prevent Conflict Resolution 50/51 Tunable Default  
 RR5-170: Regional Prevent Conflict Resolution 50/51 Tunable Modification

Yes

**QUESTION:****TRD FRS Section 5: Sub Section 5.1.2.2.4: Subscription Version Activation**

This section provides the requirements for the Subscription Version Activation functionality, which is executed upon the NPAC personnel or SOA to NPAC/SMS interface user requesting to activate a Subscription Version.

**Does the Respondent's proposal fully comply with these requirements in time to meet the published implementation date?**

R5-51.1: Activate Subscription Version - Version Identification  
 R5-51.2: Activate Subscription Version - Broadcast Complete Date and Time Stamp  
 RR5-21: Activate "porting to original" Subscription Version  
 RR5-22: Activate Subscription Version - Set Activation Received Timestamp  
 R5-52: Activate Subscription Version - Invalid Status Notification  
 R5-53.1: Activate Subscription Version - Validation  
 R5-53.2: Activate Subscription Version Validation Error Message  
 R5-53.3: Activate Subscription Version - Validate Due Date  
 RR5-209: Activate "Intra-Service Provider Port" Subscription Version - Service Provider Tunable Value of TRUE for Pseudo-LRN Request  
 R5-55: Activate Subscription Version - Local SMS Identification  
 R5-57.1: Activate Subscription Version - Send to Local SMSs  
 RR5-210: Activate Subscription Version - Local SMS Identification - Pseudo-LRN  
 R5-57.2: Activate Subscription Version - Set to Sending  
 R5-57.3: Activate Subscription Version - Date and Time Stamp  
 R5-58.1: Local SMS Activation message logging  
 R5-58.2: Local SMS Activation Log Retention Period - Tunable Parameter  
 R5-58.3: Local SMS Activation Log Retention Period - Tunable Parameter Modification  
 R5-58.4: Local SMS Activation Log Retention Period - Tunable Parameter Default  
 R5-58.5: Local SMS Activation Message Log - Viewing  
 R5-59.1: Activate Subscription Version - Set Status of Current to Active  
 R5-59.2: Activate Subscription Version - Set Status of Previous to Old  
 R5-60.1: Subscription Activation Retry Attempts - Tunable Parameter

### 5.1.2.2.4\*

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R5-60.2: Subscription Activation Retry Interval - Tunable Parameter  
 R5-60.3: Subscription Activation Retry Attempts - Tunable Parameter Modification  
 R5-60.4: Subscription Activation Retry Interval - Tunable Parameter Modification  
 R5 60.5: Subscription Activation Retry Attempts Tunable Parameter Default  
 R5-60.6: Subscription Activation Retry Interval - Tunable Parameter Default  
 R5-60.7: Subscription Version Activation Failure Retry  
 R5-60.8: Subscription Version Activation Failure - After Retries  
 R5-60.9: Subscription Version Activation Failure - Status Sending  
 R5-60.10: Subscription Version Activation Failure - Local SMS Identification  
 R5-60.11: Subscription Version Activation Failure - Set Status to Partial Failure  
 R5-60.12: Subscription Version Partial Activation Failure - Set Status of Previous to Old  
 R5 61.1: Subscription Version Activation - Set Status to Failure  
 R5-61.2: Subscription Version Activation Subscription Version - Failure Notification  
 R5-61.3: Subscription Version Activation - Resend to Failed Local SMSs  
 RR5-22.1: Subscription Version Activation - Failed Local SMS Notification - Both Service Providers  
 RR5-22.2: Subscription Version Activation - Failed Local SMS Notification - Current Service Provider  
 RR5-60: Activate Intra-Service Provider Port - After NPA-NXX-X Creation and Prior to the Existence of the Block  
 RR5 219: Activate Subscription Version - Pending SV with no underlying Pooled or Ported SV  
 RR5-211: Activate "Intra-Service Provider Port" Subscription Version - Send Notification of Activation of Pseudo-LRN Record  
 RR5-61: Activate Port-to-Original Subscription Version - Broadcast of Subscription Data Creation  
 RR5-62: Activate Port-to-Original Subscription Version - Broadcast of Subscription Data Deletion  
 RR5-171: Activate Subscription Version - Send SV Type Data to Local SMSs  
 RR5-172: Activate Subscription Version - Send Alternative SPID to Local SMSs  
 RR5-190: Activate Subscription Version - Send Last Alternative SPID to Local SMSs  
 RR5-191: Activate Subscription Version - Send Alt-End User Location Value to Local SMSs  
 RR5-192: Activate Subscription Version - Send Alt-End User Location Type to Local SMSs  
 RR5-193: Activate Subscription Version - Send Alt-Billing ID to Local SMSs  
 RR5-194: Activate Subscription Version - Send Voice URI to Local SMSs  
 RR5-195: Activate Subscription Version - Send MMS URI to Local SMSs  
 RR5-196: Activate Subscription Version - Send SMS URI to Local SMSs

Yes

#### QUESTION:

#### **TRD FRS Section 5: Sub Section 5.1.2.2.5: Subscription Version Disconnect**

This section provides the requirements for the Subscription Version Disconnect functionality, which is executed upon the NPAC personnel or SOA to NPAC/SMS interface user requesting to have a Subscription Version disconnected.

**Does the Respondent's proposal fully comply with these requirements in time to meet the published implementation date?**

R5-62: Disconnect Subscription Version - Version Identification

## 5.1.2.2.5\*

ION

RR5-23.1: Disconnect Subscription Version - Required Input Data  
 RR5-23.2: Disconnect Subscription Version - Optional Input Data  
 RN5-10: Disconnect Subscription Version - Invocation by Current Service Provider  
 R5 63: Disconnect Subscription Version - Invalid Status Notification  
 R5-64.1: Disconnect Subscription Version - Cancel Other Version Notification  
 RR5-212: Disconnect "Intra-Service Provider Port" Subscription Version - Service Provider Tunable Value of TRUE for Pseudo-LRN Request  
 RR5-24: Disconnect Subscription Version -Set to Disconnect Pending  
 RR5-25.1: Disconnect Subscription Version - Disconnect Pending Status Notification  
 RR5-25.2: Disconnect Subscription Version - Customer Disconnect Date Notification  
 R5 65.1: Disconnect Subscription Version - Immediate Broadcast  
 R5-65.2: Disconnect Subscription Version - Deferred Broadcast  
 R5-65.4: Disconnect Subscription Version - Broadcast Interface Message to Local SMSs  
 RR5-213: Disconnect Subscription Version - Local SMS Identification - Pseudo-LRN  
 R5-65.5: Disconnect Subscription Version - Disconnect Broadcast Date and Time Stamp  
 R5-65.6: Disconnect Subscription Version - Set to Sending  
 R5-66.2: Disconnect Subscription Version Complete - Set Disconnect Complete Date  
 R5-66.3: Disconnect Subscription Version Complete - Set Disconnect to Old  
 R5-66.4: Disconnect Subscription Version Complete - Status Update of SV  
 RR5-214: Disconnect "Intra-Service Provider Port" Subscription Version - Send Notification of Disconnect of Pseudo-LRN Record  
 R5-67.1: Disconnect Subscription Version - Set Status to Active  
 R5-67.2: Disconnect Pending Subscription Version - Failure Notification  
 R5-67.3: Disconnect Subscription Version - Resend Disconnect Requests to All Local SMSs  
 R5-68.1: Disconnect Subscription Version - Subscription Disconnect Retry Attempts - Tunable Parameter  
 R5-68.2: Disconnect Pending Subscription Version - Subscription Disconnect Retry Attempts - Tunable Parameter Default  
 R5-68.3: Disconnect Subscription Version - Subscription Disconnect Retry Interval - Tunable Parameter  
 R5-68.4: Disconnect Subscription Version - Subscription Disconnect Retry Interval - Tunable Parameter Default  
 R5-68.5: Disconnect Subscription Version - Retry Processing  
 R5-68.6: Disconnect Subscription Version - Sending Status during Retries  
 R5-68.7: Disconnect Subscription Version - Retry Failed  
 R5-68.8: Disconnect Subscription Version - Failure Notification after Retries Complete  
 R5-68.9: Disconnect Subscription Version - Set to Old  
 R5-68.10: Disconnect Subscription Version - Resend Disconnect Requests to Failed Local SMSs  
 RR5-63: Disconnect Subscription Version or Port-To-Original - Pooled Number Block Default Routing Restoration  
 RR5-64: Disconnect Subscription Version - Customer Disconnect Date Notification for Pooled Number  
 RR5-65: Disconnect Subscription Version - Broadcast of Subscription Data Creation  
 RR5-66: Disconnect Subscription Version - Broadcast of Subscription Data Deletion  
 RR5-67.1: Disconnect Subscription Version - Updates to the Status for

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ION

- Disconnect
- RR5-67.2: Disconnect Subscription Version - Setting of the Status for Disconnected SV
- RR5-67.3: Disconnect Subscription Version - Setting of the Status for Newly Created SV
- RR5-68.1: Disconnect Subscription Version - Updates to the Status for Port-to-Original
- RR5-68.2: Disconnect Subscription Version - Setting of the Status for Port-to-Original SV
- RR5-68.3: Disconnect Subscription Version - Setting of the Status for Port-to-Original SV that was active prior to the PTO activation request
- RR5-68.4: Disconnect Subscription Version - Setting of the Status for Port-to-Original for Newly Created SV
- RR5-69: Disconnect Subscription Version - Updates to the Failed SP List for Disconnect
- RR5-70: Disconnect Subscription Version - Updates to the Failed SP List for Port-To-Original

Yes

**QUESTION:**

**TRD FRS Section 5: Sub Section 5.1.2.2.6: Subscription Version Cancellation**

This section provides the requirements for the Subscription Version Cancellation functionality (including "un-do" of a 'cancel-pending' Subscription Version), which is executed upon the NPAC personnel or SOA to NPAC/SMS interface user requesting to cancel a Subscription Version.

**Does the Respondent's proposal fully comply with these requirements in time to meet the published implementation date?**

- RR5-26.1: Cancel Subscription Version - Inform Both Service Providers of Cancel Pending Status
- R5-69: Cancel Subscription Version - Version Identification
- R5-70: Cancel Subscription Version - Invalid Status Notification
- RR5-27: Cancel Subscription Version - Validate Service Provider
- R5 71.2: Cancel Subscription Version - Set Cancellation Date and Time Stamp
- R5-71.3: Cancel Subscription Version- Set to Cancel Old Service Provider only
- R5-71.4: Cancel Subscription Version- Set to Cancel New Service Provider only
- R5-71.5: Cancel Subscription version- Error on Cancellation
- R5-71.6: Cancel Subscription Version- Set Pending subscription version to Cancel Pending Status Inter-Service Provider port
- R5-71.8: Cancel Subscription Version- Set Conflict Subscription to Cancel New Service Provider only
- R5-71.9: Cancel Subscription Version - Rejection of Old Service Provider Conflict Cancellation
- R5-71.10: Cancel Subscription Version- Set Disconnect Pending subscription version to Active
- R5-71.11: Cancel Subscription Version- Set to Cancel Status - Intra-Service Provider port
- RR5-28.1: Cancel Subscription Version - Set to Cancel After Service Provider Acknowledge
- RR5-29.1: Cancel Subscription Version - Inform Both Service Providers of Cancel Status
- RR5-29.2: Cancel Subscription Version - Inform Current Service Provider of Cancel Status
- RR5-30: Cancel Subscription Version Acknowledgment - Update Old Service

**5.1.2.2.6\***

	<p><b>ION</b></p> <p>Provider Date and Time Stamp</p> <p>RR5-31: Cancel Subscription Version Acknowledgment - Update New Service Provider Date and Time Stamp</p> <p>RR5-32.1: Cancellation-Initial Concurrence Window - Tunable Parameter</p> <p>RR5 32.2: Cancellation Initial Concurrence Window Tunable Parameter Modification</p> <p>RR5-32.3: Long Cancellation-Initial Concurrence Window - Tunable Parameter Default</p> <p>RR5-32.4: Short Cancellation-Initial Concurrence Window - Tunable Parameter Default</p> <p>RR5-33.1: Cancellation-Final Concurrence Window - Tunable Parameter</p> <p>RR5-33.2: Cancellation-Final Concurrence Window Tunable Parameter Modification</p> <p>RR5-33.3: Long Cancellation-Final Concurrence Window - Tunable Parameter Default</p> <p>RR5-33.4: Short Cancellation-Final Concurrence Window - Tunable Parameter Default</p> <p>RR5-34: Cancellation-Initial Concurrence Window - Tunable Parameter Expiration</p> <p>RR5-35.1: Cancellation-Final Concurrence Window - Tunable Parameter Expiration New Service Provider</p> <p>RR5-35.2: Cancellation-Final Concurrence Window - Tunable Parameter Expiration Old Service Provider</p> <p>RR5-36.1: Cancel Subscription Version - Cause Code for New SP Timer Expiration</p> <p>RR5-36.2: Cancel Subscription Version - Inform Service Providers of Conflict Status</p> <p>RR5-165: Regional Automatic Conflict Cause Code Tunable</p> <p>RR5-166: Regional Automatic Conflict Cause Code Tunable Default</p> <p>RR5-167: Regional Automatic Conflict Cause Code Tunable Modification</p>
Yes	

<p><b>5.1.2.2.6.1*</b></p>	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 5: Sub Section 5.1.2.2.6.1: Un-Do a "Cancel Pending" Subscription</b></p> <p><b>Does the Respondent's proposal fully comply with these requirements in time to meet the published implementation date?</b></p> <p>RR5-143: Un-Do a Cancel-Pending Subscription Version - Notification</p> <p>RR5-144: Un-Do a Cancel-Pending Subscription Version - Request Data</p> <p>RR5-164: Un-Do a Cancel-Pending Subscription Version - New Status Specified Error</p> <p>RR5-145: Un-Do a Cancel-Pending Subscription Version - Version Status Error</p> <p>RR5-147: Un-Do a Cancel-Pending Subscription Version - Timestamp</p> <p>RR5-149: Un-Do a Cancel-Pending Subscription Version - Missing Cancel Error</p> <p>RR5-150: Un-Do a Cancel-Pending Subscription Version - Status Change</p>
Yes	

	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 5: Sub Section 5.1.2.2.7: Subscription Version Resend</b></p> <p>This section provides the requirements for the Subscription Version resend</p> <p style="text-align: center;">Telcordia08053</p>
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ION functionality, which is executed upon the NPAC personnel requesting to resend a Subscription Version.

**Does the Respondent's proposal fully comply with these requirements in time to meet the published implementation date?**

RR5-38.1.1: Resend Subscription Version - Identify Subscription Version  
RR5-38.1.2: Resend Subscription Version - Identify Multiple Subscription Versions

RR5-38.2: Resend Subscription Version - Input Data

RR5-38.3: Resend Subscription Version - Error Message

RR5-38.4: Resend Subscription Version - Activation Request

RR5-38.5: Resend Subscription Version - Disconnect Request

RR5-38.6: Resend Subscription Version - Failed or Partial Failure

RR5-38.7: Resend Subscription Version - Standard Activation Processing

RR5-38.8: Resend Subscription Version - Standard Disconnect Processing

RR5-38.9: Resend Subscription Version - Modify Active Request

RR5-38.10: Resend Subscription Version - Standard Modify Active Processing

RR5-71: Re-Send of Number Pooling Subscription Version Information - NPAC Personnel OpGUI

RR5-72: Re-Send of Number Pooling Subscription Version Information - Subscription Versions sent to discrepant non-EDR Local SMS

RR5-73: Re-Send of Number Pooling Subscription Version Information - Sending Status Update to Failed Subscription Versions for Block Activation

RR5-74: Re-Send of Number Pooling Subscription Version Information - Sending Status Update to Partial failure Subscription Versions for Block Activation

RR5-75: Re-Send of Number Pooling Subscription Version Information - Sending Status Update to Active Subscription Version for Block Modification or Deletion

RR5-76: Re-Send of Number Pooling Subscription Version Information - Sending Status Update to Old Subscription Version for Block Deletion

RR5-77: Re-Send of Number Pooling Subscription Version Information - Update to Failed SP List

RR5-78: Re-Send of Number Pooling Subscription Version Information -Status Update to Subscription Version after Re-Send

RR5-79: Re-Send of Number Pooling Subscription Version Information -Failed SP List Update to Subscription Version after Re-Send

RR5-80: Re-Send of Subscription Version Information - Disconnect or Port-To-Original of a TN within a Pooled 1K Block

RR5-81.1: Re-Send of Subscription Version Information - Disconnect TN within a Pooled 1K Block to EDR Local SMS

RR5-81.2: Re-Send of Subscription Version Information - Disconnect TN within a Pooled 1K Block to non-EDR Local SMS

RR5-82.1: Re-Send of Subscription Version Information -Port-To-Original TN within a Pooled 1K Block to EDR Local SMS

RR5-82.2: Re-Send of Subscription Version Information -Port-To-Original TN within a Pooled 1K Block to non-EDR Local SMS

RR5-151: Subscription Version Failed SP List - Exclusion of a Service Provider from Resend

RR5-152: Subscription Version Failed SP List - Logging of an Excluded Service Provider

**5.1.2.2.7\***

Yes

**STATEMENT:**

**5.1.3**

**TRD FRS Section 5: Sub Section 5.1.3: Subscription Queries**

This section provides the requirements for the Subscription Version Query functionality, which is executed upon the user requesting a query of a Subscription Version (R5-13).

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<b>5.1.3.1*</b>	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 5: Sub Section 5.1.3.1: User Functionality</b></p> <p><b>Does the Respondent's proposal fully comply with these requirements in time to meet the published implementation date?</b></p> <p>R5-72: Query Subscription Version - Request  RR5-215: Query of Subscription Versions for Pseudo-LRN - Service Provider Personnel - SOA Interface  RR5-216: Query of Subscription Versions for Pseudo-LRN - Service Provider Personnel - LSMS Interface  RR5-217: Query of Subscription Versions for Pseudo-LRN - Service Provider Personnel - LTI</p>
Yes	

<b>5.1.3.2*</b>	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 5: Sub Section 5.1.3.2: System Functionality</b></p> <p>The following requirements specify the NPAC/SMS query functionality defined above.</p> <p><b>Does the Respondent's proposal fully comply with these requirements in time to meet the published implementation date?</b></p> <p>R5-73: Query Subscription Version - Version Identification  R5-74.1: Query Subscription Version - Status Supplied  R5-74.2: Query Subscription Version - Return All Subscription Versions for Ported TN  R5-74.3: Query Subscription Version - Output Data - SOA  R5-74.4: Query Subscription Version - Output Data - LSMS  RR5-153: Subscription Version Query - Sort Order  R5-75: Query Subscription Version -No Data Found  RN5-4: Query Subscription Version - Retrieve Data, Modification Not Allowed  RN5-5: Query Subscription Version - Retrieve Data Based on Single Ported TN Only  RN5-6: Query Subscription Version - View for Any Ported TN  RR5-39: Query Subscription Version - View Old, Partial Failure, Disconnect Pending, Canceled or Active Only  RR5-174: NPAC/SMS shall return all Subscription Versions  RR5-175: Service Provider subscription query  RR5-40: Query Subscription Version - Online Records Only  RR5-83: Query Subscription Version - LNP Type of POOL  RR5-154: Subscription Version Query - Maximum Subscription Version Query by the SOA  RR5-155: Subscription Version Query - Maximum Subscription Version Query by the LSMS  RR5-176: Count of subscription information during a query  RR5-177: Service Provider subscription query options  RR5-178: Error Message for Service Provider subscription query  RR5-156: Service Provider SOA SV Query Indicator  RR5-157: Service Provider SOA SV Query Indicator Default  RR5-158: Service Provider SOA SV Query Indicator Modification  RR5-159: Service Provider LSMS SV Query Indicator  RR5-160: Service Provider LSMS SV Query Indicator Default  RR5-161: Service Provider LSMS SV Query Indicator Modification</p>
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Yes

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## STATEMENT:

## 5.1.4

**TRD FRS Section 5: Sub Section 5.1.4: Subscription Version Processing for National Number Pooling**

This section details the functional requirements for user interaction (either NPAC Personnel or Service Provider Personnel via their SOA and/or LSMS to NPAC/SMS interface) with the NPAC/SMS to appropriately operate in the National Number Pooling environment.

## QUESTION:

## 5.1.4.1\*

**TRD FRS Section 5: Sub Section 5.1.4.1: Subscription Version, General**

The following requirements outline the basic NPAC/SMS processing requirements for subscription versions in a National Number Pooling environment.

**Does the Respondent's proposal fully comply with these requirements in time to meet the published implementation date?**

RR5-84: Number Pooling Subscription Version Information - Reject Messages

RR5-85: Number Pooling Subscription Version Information - Suppression of Notifications

RR5-85.5: Number Pooling Subscription Version Information - Disconnect Notifications to Donor Service Provider

RR5-86: Number Pooling Subscription Version Information - Filters for "Pooled Number" Subscription Versions

RR5-87: Number Pooling Subscription Version Information - Broadcast of Subscription Data

RR5-88: Number Pooling Subscription Version Information - Failed SP List Update for Block

RR5-89: Number Pooling Subscription Version Information - Data Integrity for Pooled Subscription Versions and Block

Yes

## QUESTION:

## 5.1.4.2\*

**TRD FRS Section 5: Sub Section 5.1.4.2: Subscription Version, Addition for Number Pooling**

The following section outlines the NPAC/SMS functional requirements for processing pooled subscription version additions. Subscription versions with LNP Type set to POOL are created when a Number Pool Block is activated.

**Does the Respondent's proposal fully comply with these requirements in time to meet the published implementation date?**

RR5-90: Addition of Number Pooling Subscription Version Information - Subscription Data

RR5-91: Addition of Number Pooling Subscription Version Information - Create "Pooled Number" Subscription Version

RR5-92: Addition of Number Pooling Subscription Version Information Create "Pooled Number" Subscription Version - Bypass of Existing Subscription Versions

RR5-93: Addition of Number Pooling Subscription Version Information Create "Pooled Number" Subscription Version - Set to Sending

RR5-94: Addition of Number Pooling Subscription Version Information - Status

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	<p><b>QUESTION:</b></p> <p>Update RR5-95: Addition of Number Pooling Subscription Version Information - Failed SP List RR5-220: Addition of Number Pooling Subscription Version Information - Create "Pooled Number" Subscription Version Status Rollup to Active with empty Failed SP List</p>
Yes	

<p><b>5.1.4.3*</b></p>	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 5: Sub Section 5.1.4.3: Subscription Version, Block Create Validation of Subscription Versions</b></p> <p>The following requirements define validation processing on behalf of the NPAC/SMS once a Number Pool Block has been activated.</p> <p><b>Does the Respondent's proposal fully comply with these requirements in time to meet the published implementation date?</b></p> <p>RR5-96: Block Create Validation of Subscription Versions - Subscription Version Completion Check RR5-97: Block Create Validation of Subscription Versions - First Time Execution of Subscription Version Completion Check RR5-98: Block Create Validation of Subscription Versions - Subscription Version Create for Missing TNs RR5-99: Block Create Validation of Subscription Versions - Subscription Version Broadcast to non-EDR Local SMS RR5-100: Block Create Validation of Subscription Versions - Block Status Update RR5-101: Block Create Validation of Subscription Versions - Block Failed SP List Update RR5-102: Block Create Validation of Subscription Versions - Subscription Version Logging</p>
Yes	

<p><b>5.1.4.4*</b></p>	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 5: Sub Section 5.1.4.4: Subscription Version, Modification for Number Pooling</b></p> <p><b>Does the Respondent's proposal fully comply with these requirements in time to meet the published implementation date?</b></p> <p>RR5-103: Modification of Number Pooling Subscription Version Information - Subscription Data RR5-104: Modification of Number Pooling Subscription Version Information - Status Update to Sending RR5-105: Modification of Number Pooling Subscription Version Information - Status Update RR5-106: Modification of Number Pooling Subscription Version Information - Failed SP List</p>
Yes	

	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 5: Sub Section 5.1.4.5: Subscription Version, Deletion for Number Pooling</b></p> <p><b>Does the Respondent's proposal fully comply with these requirements in</b></p>
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<b>5.1.4.5*</b>	<p><b>QUESTION:</b></p> <p><b>time to meet the published implementation date?</b></p> <p>RR5-107: Deletion of Number Pooling Subscription Version Information - Sending Status Update to Subscription Versions                  RR5-108: Deletion of Number Pooling Subscription Version Information - Broadcast of Subscription Version Data                  RR5-109: Deletion of Number Pooling Subscription Version Information - Status Update to Subscription Versions                  RR5-110: Deletion of Number Pooling Subscription Version Information - Failed SP List</p>
Yes	

<b>5.1.4.6*</b>	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 5: Sub Section 5.1.4.6: Subscription Version, Block Delete Validation Subscription Versions</b></p> <p><b>Does the Respondent's proposal fully comply with these requirements in time to meet the published implementation date?</b></p> <p>RR5-111: Block Delete Validation of Subscription Versions - Ensure no Subscription Versions with LNP Type POOL</p>
Yes	

## 6. TRD FRS Section 6: NPAC/SMS INTERFACES

<b>6.1</b>	<p><b>STATEMENT:</b></p> <p><b>TRD FRS Section 6: Sub Section 6.1: SOA to NPAC/SMS Interface</b></p> <p>The SOA to NPAC/SMS Interface is a CMIP-based, mechanized interface to the NPAC/SMS. The SOA interface supports the Service Provider's Service Order Administration (SOA) systems. This interface is referred to as the SOA to NPAC/SMS interface. This interface supports two-way communications between service providers SOA systems and the NPAC/SMS.</p>
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<b>6.2</b>	<p><b>STATEMENT:</b></p> <p><b>TRD FRS Section 6: Sub Section 6.2: NPAC/SMS to LSMS Interface</b></p> <p>The LSMS to NPAC/SMS Interface is a CMIP-based, mechanized interface to the NPAC/SMS. The LSMS interface supports the Service Provider's Local Service Management System (LSMS). This interface is referred to as the NPAC/SMS to LSMS interface. This interface support two-way communications between the service providers LSMS and the NPAC/SMS.</p>
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<b>6.3*</b>	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 6: Sub Section 6.3: Interface Transactions</b></p> <p>The CMIP protocol provides for six types of transactions over the interface (Reference: ISO 9595 and 9596). They are:</p> <ul style="list-style-type: none"> <li>• Create</li> <li>• Delete</li> <li>• Set</li> <li>• Get</li> <li>• M-Action</li> </ul>
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Event Report

**Does the Respondent's proposal fully comply with the requirement below in time to meet the published implementation date?**

R6-22: Manager-agent relationship of interface transactions.

Yes

**6.4\***

QUESTION:

**TRD FRS Section 6: Sub Section 6.4: Interface and Protocol Requirements**

While it is expected that dedicated links will be used for the interfaces, switched connections should also be supported. Reliability and availability of the links will be essential and high capacity performance will be needed.

**Does the Respondent's proposal fully comply with the requirement below in time to meet the published implementation date?**

R6-23: Open interfaces

Yes

**6.4.1\***

QUESTION:

**TRD FRS Section 6: Sub Section 6.4.1: Protocol Requirements**

**Does the Respondent's proposal fully comply with these requirements below, in time to meet the published implementation date?**

R6-24: Interface protocol stack  
R6-25: Multiple application associations

Yes

**6.4.2\***

QUESTION:

**TRD FRS Section 6: Sub Section 6.4.2: Interface Performance Requirements**

**Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?**

R6-26: Interface availability  
R6-27: Interface Reliability  
R6-28.1: SOA to NPAC/SMS interface transaction rates - sustained  
R6-28.2: SOA to NPAC/SMS interface transaction rates - peak  
RR6-107: SOA to NPAC/SMS interface transaction rates - total bandwidth  
RR6-108: NPAC/SMS to Local SMS interface transaction rates - sustained  
RR6-109: NPAC/SMS to Local SMS interface transaction rates - total bandwidth

Yes

QUESTION:

**TRD FRS Section 6: Sub Section 6.4.3: Interface Specification Requirements**

**Does the Respondent's proposal fully comply with these requirements below in time to meet the published implementation date?**

R6-30.1: Interface specification

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**6.4.3\***

**QUESTION:**

R6-30.2: Interface specification identification  
 R6-35: NPAC/SMS Interoperable Interface Specification extensibility  
 RR6-1: Acknowledgment of a Cancel Pending for a Subscription Version  
 RR6-2: Acknowledgment of a Conflict Resolution for a Subscription Version  
 RR6-3: Deferred Disconnect of a Subscription Version  
 RR6-4: Cancel Request Notification  
 RR6-5: Conflict Resolution Request Notification

Yes

**6.4.4\*****QUESTION:****TRD FRS Section 6: Sub Section 6.4.4: Request Restraints Requirements**

**Does the Respondent's proposal fully comply with these requirements below in time to meet the published implementation date?**

RR6-8: Tunable Parameter Number of Aggregated Download Records  
 RR6-9: Download Time Tunable Parameter to Restricted Time Range  
 RR6-13: Queries Constrained by NPA-NXX  
 RR6-14: Subscription Version Resynchronization Filter Usage

Yes

**6.4.5\*****QUESTION:****TRD FRS Section 6: Sub Section 6.4.5: Application Level Errors Requirements**

**Does the Respondent's proposal fully comply with these requirements below in time to meet the published implementation date?**

RR6-110: NPAC/SMS Application Level Errors  
 RR6-111: NPAC/SMS Application Level Error Details  
 RR6-112: NPAC/SMS Application Level Error Details in soft format  
 RR6-113: SOA Action Application Level Errors Indicator  
 RR6-114: SOA Action Application Level Error Indicator Default  
 RR6-115: SOA Action Application Level Errors Indicator Modification  
 RR6-116: LSMS Action Application Level Errors Indicator  
 RR6-117: LSMS Action Application Level Errors Indicator Default  
 RR6-118: LSMS Action Application Level Errors Indicator Modification  
 RR6-119: LSMS Application Level Errors Indicator  
 RR6-193: SOA Non-Action Application Level Errors Indicator  
 RR6-194: SOA Non-Action Application Level Errors Indicator Default  
 RR6-195: SOA Non-Action Application Level Errors Indicator Modification  
 RR6-196: LSMS Non-Action Application Level Errors Indicator  
 RR6-197: LSMS Non-Action Application Level Errors Indicator Default  
 RR6-198: LSMS Non-Action Application Level Errors Indicator Modification

ION

Yes

QUESTION:

**TRD FRS Section 6: Sub Section 6.5: NPAC SOA Low-tech Interface Requirements**

The NPAC SOA Low-tech Interface supports the request functionality of the SOA to NPAC/SMS interface.

**Does the Respondent's proposal fully comply with these requirements below in time to meet the published implementation date?**

6.5\*

- RX6-2.1: NPAC SOA Low-tech Interface
- RX6-2.2: SOA to NPAC/SMS Create Subscription Versions administration requests via an NPAC SOA Low-tech Interface
- RX6-2.3: SOA to NPAC/SMS Cancel Subscription Versions administration requests via an NPAC SOA Low-tech Interface
- RX6-2.4: SOA to NPAC/SMS Modify Subscription Versions administration requests via an NPAC SOA Low-tech Interface
- RX6-2.5: SOA to NPAC/SMS Query Subscription Versions administration requests via an NPAC SOA Low-tech Interface
- RX6-2.6: SOA to NPAC/SMS Activate Subscription Versions administration requests via an NPAC SOA Low-tech Interface
- RX6-2.7: SOA to NPAC/SMS Disconnect Subscription Versions administration requests via an NPAC SOA Low-tech Interface
- RR6-189: SOA to NPAC/SMS Un-Do Cancel-Pending Subscription Version administration requests via an NPAC SOA Low-tech Interface
- RX6-3: SOA to NPAC/SMS audit requests
- RR6-35: SOA to NPAC/SMS Number Pool Block Create Request via the SOA Low-tech Interface
- RR6-36: SOA to NPAC/SMS Number Pool Block Modify Request via the SOA Low-tech Interface
- RX6-4: NPAC/SMS Notification Handling

Yes

QUESTION:

**TRD FRS Section 6: Sub Section 6.6: CMIP Request Retry Requirements**

**Does the Respondent's proposal fully comply with these requirements below in time to meet the published implementation date?**

6.6\*

- RR6-15: SOA Retry Attempts - Tunable Parameter
- RR6-16: SOA Retry Interval - Tunable Parameter
- RR6-17: SOA Retry Attempts - Tunable Parameter Modification
- RR6-18: SOA Retry Interval - Tunable Parameter Modification
- RR6-19: SOA Retry Attempts - Tunable Parameter Default
- RR6-20: SOA Retry Interval - Tunable Parameter Default
- RR6-21: SOA Activation Failure Retry
- RR6-22: LSMS Retry Attempts - Tunable Parameter
- RR6-23: LSMS Retry Interval - Tunable Parameter
- RR6-24: LSMS Retry Attempts - Tunable Parameter Modification
- RR6-25: LSMS Retry Interval - Tunable Parameter Modification
- RR6-26: LSMS Retry Attempts - Tunable Parameter Default

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RR6-27: LSMS Retry Interval - Tunable Parameter Default  
RR6-28: LSMS Activation Failure Retry

Yes

**QUESTION:**

**TRD FRS Section 6: Sub Section 6.7: Recovery Requirements**

The following requirements define the Recovery functionality supported by the NPAC/SMS to SOA interface and NPAC/SMS to LSMS interface.

**Does the Respondent's proposal fully comply with these requirements below in time to meet the published implementation date?**

- RR6-84: Linked Replies Information - Sending Linked Replies During Recovery
- RR6-85: Linked Replies Information - Service Provider SOA Linked Replies Indicator Sending of Linked Replies
- RR6-86: Linked Replies Information - Service Provider SOA Linked Replies Indicator Sending of Non-Linked Replies
- RR6-87: Linked Replies Information - Service Provider Local SMS Linked Replies Indicator Sending of Linked Replies
- RR6-88: Linked Replies Information - Service Provider Local SMS Linked Replies Indicator Sending of Non-Linked Replies
- RR6-122: SWIM Recovery Tracking
- RR6-123: Service Provider SOA SWIM Recovery Indicator
- RR6-124: Service Provider SOA SWIM Recovery Indicator Default
- RR6-125: Service Provider SOA SWIM Recovery Indicator Modification
- RR6-126: SOA SWIM Maximum Tunable
- RR6-127: SOA SWIM Maximum Tunable Default
- RR6-128: SOA SWIM Maximum Tunable Modification
- RR6-129: Service Provider LSMS SWIM Recovery Indicator
- RR6-130: Service Provider LSMS SWIM Recovery Indicator Default
- RR6-131: Service Provider LSMS SWIM Recovery Indicator Modification
- RR6-190: LSMS SWIM Maximum Tunable
- RR6-191: LSMS SWIM Maximum Tunable Default
- RR6-192: LSMS SWIM Maximum Tunable Modification
- RR6-199: Service Provider SOA SPID Recovery Indicator
- RR6-200: Service Provider SOA SPID Recovery Indicator Default
- RR6-201: Service Provider SOA SPID Recovery Indicator Modification
- RR6-202: Service Provider LSMS SPID Recovery Indicator
- RR6-203: Service Provider LSMS SPID Recovery Indicator Default
- RR6-204: Service Provider LSMS SPID Recovery Indicator Modification
- RR6-205: Service Provider SOA Cancel-Pending-to-Conflict Cause Code Tunable
- RR6-206: Service Provider SOA Cancel-Pending-to-Conflict Cause Code Tunable Default
- RR6-207: Service Provider SOA Cancel-Pending-to-Conflict Cause Code Tunable Modification
- RR6-208: Service Provider LSMS Cancel-Pending-to-Conflict Cause Code Tunable
- RR6-209: Service Provider LSMS Cancel-Pending-to-Conflict Cause Code Tunable Default
- RR6-210: Service Provider LSMS Cancel-Pending-to-Conflict Cause Code Tunable Modification

6.7\*

Yes

**QUESTION:**

**TRD FRS Section 6: Sub Section 6.8: Out-Bound Flow Control Requirements**

The following requirements define the Out-Bound Flow Control functionality.

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6.8\*

**Does the Respondent's proposal fully comply with these requirements below in time to meet the published implementation date?**

- RR6-148: Out-Bound Flow Control Upper Threshold Tunable
- RR6-149: Out-Bound Flow Control Upper Threshold Tunable Default
- RR6-150: Out-Bound Flow Control Upper Threshold Tunable Modification
- RR6-151: Out-Bound Flow Control Lower Threshold Tunable
- RR6-152: Out-Bound Flow Control Lower Threshold Tunable Default
- RR6-153: Out-Bound Flow Control Lower Threshold Tunable Modification

Yes

6.9\*

**QUESTION:**

**TRD FRS Section 6: Sub Section 6.9: Roll-Up Activity and Abort Behavior Requirements**

The following requirements define the Roll-up Activity and Abort Behavior functionality.

**Does the Respondent's proposal fully comply with these requirements below in time to meet the published implementation date?**

- RR6-154: Roll-Up Activity-Single Tunable
- RR6-155: Roll-Up Activity-Single Tunable Default
- RR6-156: Roll-Up Activity-Single Tunable Modification
- RR6-157: Roll-Up Activity Timer Expire SVRange Tunable
- RR6-158: Roll-Up Activity Timer Expire SVRange Tunable Default
- RR6-159: Roll-Up Activity Timer Expire SVRange Tunable Modification
- RR6-160: Abort Processing Behavior Upper Threshold Tunable
- RR6-161: Abort Processing Behavior Upper Threshold Tunable Default
- RR6-162: Abort Processing Behavior Upper Threshold Tunable Modification

Yes

6.10\*

**QUESTION:**

**TRD FRS Section 6: Sub Section 6.10: NPAC Monitoring of SOA and LSMS Associations Requirements**

The following requirements define the NPAC Monitoring of SOA and LSMS Association functionality.

**Does the Respondent's proposal fully comply with these requirements below in time to meet the published implementation date?**

- RR6-163: NPAC/SMS Monitoring of SOA and Local SMS Connections via an Application Level Heartbeat
- RR6-164: NPAC/SMS-to-SOA Application Level Heartbeat Indicator
- RR6-165: NPAC/SMS-to-SOA Application Level Heartbeat Indicator Default
- RR6-166: NPAC/SMS-to-SOA Application Level Heartbeat Indicator Modification
- RR6-167: NPAC/SMS-to-Local SMS Application Level Heartbeat Indicator
- RR6-168: NPAC/SMS-to-Local SMS Application Level Heartbeat Indicator Default
- RR6-169: NPAC/SMS-to-Local SMS Application Level Heartbeat Indicator Modification
- RR6-170: NPAC/SMS Application Level Heartbeat Tunable Parameter
- RR6-171: NPAC/SMS Application Level Heartbeat Tunable Parameter Usage
- RR6-172: NPAC/SMS Application Level Heartbeat Tunable Parameter Default
- RR6-173: NPAC/SMS Application Level Heartbeat Tunable Parameter Modification
- RR6-174: NPAC/SMS Application Level Heartbeat Timeout Tunable Parameter
- RR6-175: NPAC/SMS Application Level Heartbeat Timeout Tunable Parameter Usage
- RR6-176: NPAC/SMS Application Level Heartbeat Timeout Tunable Parameter Default
- RR6-177: NPAC/SMS Application Level Heartbeat Timeout Tunable Parameter

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	<b>ION</b> Modification
	Yes
<b>6.11*</b>	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 6: Sub Section 6.11: Separate SOA Channel for Notifications Requirements</b></p> <p>The following requirements define the Separate SOA Channel for Notifications functionality.</p> <p><b>Does the Respondent's proposal fully comply with these requirements below in time to meet the published implementation date?</b></p> <p>RR6-178: SOA Notification Channel Service Provider Indicator                  RR6-179: SOA Notification Channel Service Provider Indicator - Default                  RR6-180: SOA Notification Channel Service Provider Indicator - Modification                  RR6-182: Separate Association for the Notification Function From different NSAPs                  RR6-183: Security Management of Multiple SOA Associations of Different Association Functions                  RR6-184: Sending of SOA Notifications when Notification Channel is Active                  RR6-185: Separate Notification Channel during Recovery                  RR6-186: Treatment of Multiple Associations when there is an Intersection of Association Function</p>
	Yes

<b>6.12*</b>	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 6: Sub Section 6.12: Maintenance Window Timer Behavior Requirements</b></p> <p>The following requirements define the Maintenance Window Timer Behavior.</p> <p><b>Does the Respondent's proposal fully comply with these requirements below in time to meet the published implementation date?</b></p> <p>RR6-187: NPAC Maintenance Windows - Timer Update Tool                  RR6-188: NPAC Maintenance Windows - Timer Update Tool - Affected Timers</p>
	Yes

## 7. TRD FRS Section 7: SECURITY

<b>7.1</b>	<p><b>STATEMENT:</b></p> <p><b>TRD FRS Section 7: Sub Section 7.1: Security Overview</b></p> <p>In addition to the general security requirements based on the user interface paradigm, there are requirements for the security on an OSI application-to-application interface (such as the one specified in Section 6, NPAC/SMS Interfaces, for the SMS to SMS and SMS to SOA interfaces).</p>
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	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 7: Sub Section 7.2: Identification Requirements</b></p> <p>The NPAC will accept only authorized NPAC customers through interface connections, and among NPAC customers, the NPAC will make appropriate limitations on their actions (for example, letting only old or new Service Providers view a pending record). The NPAC will</p>

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**QUESTION**

only accept authorized customer user IDs. However, the NPAC will make no distinction among an NPAC customer's employees; the NPAC customer and their systems must control individual NPAC customer employee actions.

A user identification is a unique, auditable representation of the user's identity within the system. The NPAC/SMS requires all system users, both individuals and remote machines, to be uniquely identified to support individual accountability over the NPAC Administrative and NPAC SOA Low-tech Interfaces.

**7.2\*** **Does the Respondent's proposal fully comply with these requirements below in time to meet the published implementation date?**

- R7-1: Unique User Identification Codes - Individuals
- R7-2: Assigned Userid Identification
- R7-3: Current Active User List Maintenance
- R7-4: User Invoked Processes
- R7-5.1: Userids, Unused - Disabling
- R7-5.2: Unused Userid Disable Period - Tunable Parameter
- R7-5.3: Unused Userid Disable Period - Tunable Parameter Modification
- R7-5.4: Unused Userid Disable Period - Tunable Parameter Default
- R7-6.1: Userids, Disabled - Reinstatement
- R7-6.2: Userids - Deletion
- R7-7: Userids - Temporary Disabling
- R7-8: Userids, Disabled - Automatic Reactivation
- R7-9.1: Userids - One Active Login
- R7-9.2: Second Login Attempt

Yes

**QUESTION:**

**TRD FRS Section 7: Sub Section 7.3: Authentication**

The identity of all NPAC/SMS system users, both individuals and remote machines, must be verified or authenticated to enter the system, and to access restricted data or transactions over the NPAC Administrative and NPAC SOA Low-Tech Interfaces.

**7.3\*** **Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?**

- R7-10: User Authentication
- R7-12: Authentication Data Protection

Yes

**QUESTION:**

**TRD FRS Section 7: Sub Section 7.3.1: Password Requirements**

**Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?**

- R7-13: Passwords - Non-shared
- R7-14: Passwords - Userid Unique
- R7-15: Passwords - One-Way Encrypted
- R7-16: Passwords, Encrypted - Privileged Users Access Control
- R7-18: Passwords, Entry - Automatic Clear Text Suppression
- R7-19: Passwords - Network Transmission Clear Text Suppression
- R7-20: Passwords - Non-Null
- R7-21: Passwords - User-Changeable
- R7-22: Passwords - Reset Capability

**7.3.1\***

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R7-23.1: Passwords - Aging Enforcement  
 R7-23.2: Password Aging Default  
 R7-24.1: Passwords - Expiration Notification  
 R7-24.2: Passwords - Expiration Notification Default  
 R7 24.3: Passwords Require User to Enter New Password  
 R7-25.1: Passwords - Non-Reusable  
 R7-25.2: Password Reuse Default  
 R7-26.1: Passwords - Minimum Structure Standard #1  
 R7-26.2: Passwords - Associated Userid  
 R7-27.1: Password Generator  
 R7-27.2: Passwords, System Generated - Attack Resistant  
 R7-27.3: Passwords, System Generated - Random

Yes

**STATEMENT:**

**7.4**

**TRD FRS Section 7: Sub Section 7.4: Access Control**

Access to the NPAC/SMS and other resources will be limited to those users that have been authorized for that specific access right.

**QUESTION:**

**TRD FRS Section 7: Sub Section 7.4.1: System Access Requirements**

**Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?**

**7.4.1\***

R7-28.1: System Access - Individuals  
 R7-28.2: System Access - Remote Machines  
 R7-29.1: System Access, User Information - Entry  
 R7-29.2: System Access, User Information - Modification  
 R7-31: System Access, Login - Trusted Communication  
 R7-32.1: System Access - Disconnect User  
 R7-32.2: Non-use Disconnect Tunable Parameter  
 R7-33.1: System Access - User Authentication Failure  
 R7-33.2: Incorrect Login Exit Default  
 R7-34: System Access, User Authentication Failure - Notification  
 R7-35.1: System Access - Login Process I/O Port Restart  
 R7-35.2: Login Process Restart Default  
 R7-36: System Access, User Authentication Failure - Userid Non-Suspension  
 R7-37: System Access, User Authentication Procedure - Entry  
 R7-38: System Access, User Authentication Procedure Entry - Error Feedback  
 R7-39: System Access, User Authentication Procedure Entry - Time Parameters  
 R7-40.1: System Access, User Authentication Procedure Entry - Method  
 R7-40.2: System Access, User Authentication Procedure Entry - Location  
 R7-41: System Access, User Authentication Procedure Entry - SSL VPN Limitations  
 R7-42.1: System Access - Network Basis  
 R7-42.2: System Access - Per-Port Basis  
 R7-43.1: System Access, Network Authentication  
 R7-43.2: Internet Access  
 R7-43.3: SSL VPN Access  
 R7-44: System Access - Secure Logoff Procedures  
 R7-46: System Access, Unauthorized Use Message - Specifiable  
 R7-47.1: System Access, Unauthorized Use Message - Specifiable (Warning)  
 R7-47.2: Advisory Warning Message Default  
 R7-48.1: System Access - User's Last Successful Access

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	<p><b>QUESTION:</b></p> <p>R7-48.2: System Access - User's Unsuccessful Access Attempts  R7-49.1: System Access, Security Administration - Authorize Users  R7-49.2: System Access, Security Administration - Revoke Users  R7-50.1: System Access, Security Administration - Adding Users  R7 50.2: System Access, Security Administration - Deleting Users</p>
Yes	

<b>7.4.2*</b>	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 7: Sub Section 7.4.2: Resource Access</b></p> <p><b>Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?</b></p> <p>R7-51: Data Access for Authorized Users  R7-52: Service Provider Data Protected  R7-53.1: Authorized User Access to Software  R7-53.2: Authorized User Access to Transactions  R7-53.3: Authorized User Access to Data  R7-54.1: Access Control of Executable Software  R7-55: Access Control of Resources  R7-56: User ID and System ID  R7-57: Resource Access to Users  R7-58: Resource Access Denied to Users  R7-60: Only NPAC Personnel Can Modify User Access  R7-61: Removal of User Access Rights</p>
Yes	

<b>7.5*</b>	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 7: Sub Section 7.5: Data and System Integrity</b></p> <p><b>Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?</b></p> <p>R7-63: Identify Originator of System Resources  R7-64: Identify Originator of Information Received Across Communication Channels  R7-65.1: Monitor System Resources  R7-65.2: Detect Error Conditions  R7-65.3: Detect Communication Errors  R7-65.4: Detect Link Outages  R7-66.1: Rule Checking on Update  R7-66.2: Handling of Duplicate Inputs  R7-66.3: Check Return Status  R7-66.4: Validate Inputs  R7-66.5: Transaction Serialization  R7-67: Database Integrity Checking</p>
Yes	

<b>7.6</b>	<p><b>STATEMENT:</b></p> <p><b>TRD FRS Section 7: Sub Section 7.6: Audit</b></p>
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	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 7: Sub Section 7.6.1: Audit Log Generation Requirements</b></p>
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**7.6.1\***

**ION**  
**Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?**

- R7-68.1: Security Audit Log for After the Fact Investigation
- R7-68.2: Security Audit Data Availability
- R7-68.3: Security Audit Data Archived
- R7-69: User Identification Retained
- R7-70: Protection of Security Audit Log Access
- R7-71.2: NPAC Personnel Delete Security Audit Log
- R7-72: Security Audit Control Protected
- R7-73.1: Log Invalid User Authentication Attempts
- R7-73.2: Log NPAC/SMS End User Logins
- R7-73.3: Log NPAC Personnel Activities
- R7-73.4: Log Unauthorized Data Access
- R7-73.5: Log Unauthorized Transaction Access
- R7-74: No Disable of Security Auditing
- R7-75: Security Audit Record Contents
- R7-76.1: Recorded Login Attempts

Yes

**7.6.2\***

**QUESTION:**

**TRD FRS Section 7: Sub Section 7.6.2: Reporting and Intrusion Detection Requirements**

**Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?**

- R7-77.1: Exception Reports on Data Items
- R7-77.2: Exception Reports on Users
- R7-77.3: Exception Reports on Communication Failures
- R7-77.4: Summary Reports on Data Items
- R7-77.5: Summary Reports on Users
- R7-77.6: Summary Reports on Communication Failures
- R7-77.7: Detailed Reports on Data Items
- R7-77.8: Detailed Reports on Users
- R7-77.9: Detailed Reports on Communication Failures
- R7-78: Review User Actions
- R7-79.1: Monitor Network Address
- R7-80.1: Real-time Security Monitor
- R7-80.2: Security Event Notification

Yes

**7.7\***

**QUESTION:**

**TRD FRS Section 7: Sub Section 7.7: Continuity of Service**

**Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?**

- R7-81: System Made Unavailable by Service Provider
- R7-82: Detect Service Degrading Conditions
- R7-83: System Recovery After Failure
- R7-84.1: Software Backup Procedures
- R7-84.2: Data Backup Procedures
- R7-84.3: Software Restoration Procedures
- R7-84.4: Data Restoration Procedures
- R7-85.1: Software Version Number (Installed)

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	<b>QUESTION:</b> R7-85.2: Software Version Number
Yes	

<b>7.8*</b>	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 7: Sub Section 7.8: Software Vendor</b></p> <p><b>Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?</b></p> <p>R7-86: Software Development Methodology                  R7-87: Bypass of Security                  R7-88: Documented Entry</p>
Yes	

<b>7.9</b>	<p><b>STATEMENT:</b></p> <p><b>TRD FRS Section 7: Sub Section 7.9: OSI Security Environment</b></p>
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<b>7.9.1</b>	<p><b>STATEMENT:</b></p> <p><b>TRD FRS Section 7: Sub Section 7.9.1: Threats</b></p> <p>Attacks against the NPAC/SMS may be perpetrated in order to achieve any of the following:</p> <ol style="list-style-type: none"> <li>1. Denial of service to a customer by placing wrong translation information in the SMS</li> <li>2. Denial of service to a customer by preventing a valid message from reaching the SMS</li> <li>3. Disrupting a carrier's operations by having numerous spurious calls (to users who are not clients of that carrier) directed to that carrier</li> <li>4. Switching customers to various carriers without their consent</li> <li>5. Disrupting the functioning of the NPAC/SMS by swamping it with spurious messages</li> </ol>
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<b>7.9.2*</b>	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 7: Sub Section 7.9.2: Security Services</b></p> <p><b>Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?</b></p> <p>R7-89: Authentication                  R7-90: Data Origin Authentication                  R7-91.1: Detection of Message Replay                  R7-91.2: Deletion of a Message                  R7-91.3: Modification of a Message                  R7-91.4: Delay of a Message                  R7-92: Non-repudiation of Origin                  R7-93: Access Control</p>
Yes	

<b>7.9.3</b>	<p><b>STATEMENT:</b></p> <p><b>TRD FRS Section 7: Sub Section 7.9.3: Security Mechanisms</b></p>
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	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 7: Sub Section 7.9.3.1: Encryption</b></p>
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<b>7.9.3.1*</b>	<p><b>QUESTION:</b></p> <p><b>Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?</b></p> <p>R7-94.1: Public Key Crypto System (PKCS) R7-95: RSA Encryption Modulus Size</p>
Yes	

<b>7.9.3.2*</b>	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 7: Sub Section 7.9.3.2: Authentication</b></p> <p><b>Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?</b></p> <p>R7-96: Digital Signature Algorithm R7-97: Authenticator Contents R7-98: Authenticator in Access Control Field R7-99.1: Subsequent Messages Contain Access Control Field R7-99.2: Separate Counter for Association Sequence Numbers R7-99.3: Increment Sequence Numbers</p>
Yes	

<b>7.9.3.3*</b>	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 7: Sub Section 7.9.3.3: Integrity and Non-Repudiation</b></p> <p><b>Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?</b></p> <p>R7-100.1: Security Field R7-100.2: Security Field Syntax R7-102: Notifications in Confirmed Mode</p>
Yes	

<b>7.9.3.4*</b>	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 7: Sub Section 7.9.3.4: Access Control</b></p> <p><b>Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?</b></p> <p>R7-104: Responsible for Access Control R7-105.2: Generalized Time - Valid Message Timeframe RR7-3: Generalized Time - Departure Time Threshold Tunable Parameter RR7-4: Generalized Time - Departure Time Threshold Tunable Parameter Default</p>
Yes	

<b>7.9.3.5*</b>	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 7: Sub Section 7.9.3.5: Audit Trail</b></p> <p><b>Does the Respondent's proposal fully comply with the requirement below in time to meet the published implementation date?</b></p> <p>R7-106: Log Contents</p>
Yes	

<b>7.9.3.6*</b>	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 7: Sub Section 7.9.3.6: Key Exchange</b></p> <p><b>Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?</b></p> <p>R7-107.1: Lists of Keys  R7-107.2: Keys in Electronic Form  R7-107.4: Key List Exchange  R7-107.5: Remote Key List Exchange  R7-108.1: Remote Reception Acknowledgment  R7-108.2: Acknowledgment Contents  R7-108.3: Phone Confirmation  R7-110.1: List Encryption Keys  R7-110.3: List Encryption Keys (Unique Numbering of Keys)  R7-111.1: New Encryption Key Can Be Chosen  R7-111.2: Keys Not Reused  R7-111.3: Compromised Keys  R7-111.4: Key Change Once Per Year  R7-111.5: Key Size Increase Per Year  R7-111.6: Per Service Provider Application Basis  R7-111.7: NPAC Key Change Algorithm  R7-111.8: Service Provider Key Marked Used/Invalid  RR7-1: Load Key List  RN7-1: Authenticator Contents - Individual System Clock Accuracy  RN7-2: Authenticator Contents - Zero Sequence Number</p>
Yes	

**8. TRD FRS Section 8: AUDIT ADMINISTRATION**

<b>8.1*</b>	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 8: Sub Section 8.1: Overview</b></p> <p><b>Does the Respondent's proposal fully comply with the requirement below in time to meet the published implementation date?</b></p> <p>A8-1: Service Provider Audits Issued Immediately</p>
Yes	

<b>8.2*</b>	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 8: Sub Section 8.2: Service Provider User Functionality</b></p> <p><b>Does the Respondent's proposal fully comply with these requirements below in time to meet the published implementation date?</b></p> <p>RR8-19: Service Provider Audit Request – Required Information  R8-3: Service Providers Specify Audit Scope</p>
Yes	

	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 8: Sub Section 8.3: NPAC User Functionality Requirements</b></p> <p><b>Does the Respondent's proposal fully comply with the requirements below in</b></p>
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<b>8.3*</b>	<p style="text-align: center;"><b>QUESTION:</b></p> <p><b>time to meet the published implementation date?</b></p> <p>RR8-20: NPAC Personnel Audit Request – Required Information              R8-61: Specify an Immediate Audit Request              R8-9: NPAC Personnel Specify Audit Scope              R8-10: NPAC Personnel Status of Audit Request              R8-11: Audit Progress Indicators              R8-12: NPAC Personnel Cancel of an Audit</p>
Yes	

<b>8.4*</b>	<p style="text-align: center;"><b>QUESTION:</b></p> <p><b>TRD FRS Section 8: Sub Section 8.4: System Functionality Requirements</b></p> <p><b>Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?</b></p> <p>R8-15.1: NPAC Personnel View of ALL Audit Requests              R8-15.2: Mechanized SOA Interface Obtain Audit Requests              R8-15.3: Send Audit Results to Originating SOA              R8-16.1: Flow of Audit Execution              R8-17.1: Compare NPAC/SMS Subscription Versions to Service Provider Subscription Versions              R8-17.2: Add TNs to Service Provider Subscription Versions              R8-17.3: Modify Erroneous TNs              R8-17.4: Delete Discrepant TNs from Service Provider Subscription Versions              R8-19: Record Audit Results in an Audit Log              RR8-4: Skip Subscription Versions with a Status of Sending              RR8-5: Report No Discrepancies Found in Audit Results for Skipped Subscription Versions              RR8-21: Audit for Support of SV Type              RR8-22: Audit for Support of Alternative SPID              RR8-26: Audit for Support of Last Alternative SPID              RR8-27: Audit for Support of Voice URI              RR8-28: Audit for Support of MMS URI              RR8-29: Audit for Support of SMS URI</p>
Yes	

<b>8.5*</b>	<p style="text-align: center;"><b>QUESTION:</b></p> <p><b>TRD FRS Section 8: Sub Section 8.5: Audit Report Management Requirements</b></p> <p><b>Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?</b></p> <p>R8-20: Service provider Audit Retrieval              R8-21.1: Generate an Audit Report              R8-21.2: Audit Report Contents              R8-23.1: NPAC Personnel View an In-progress Audit Report              R8-22: NPAC Personnel Generate and View an Audit Report              R8-23.2: Service Providers View Results of Audits They Have Requested              R8-25: NPAC Personnel Specify Time Audit Results Retained</p>
Yes	

	<p style="text-align: center;"><b>QUESTION:</b></p> <p><b>TRD FRS Section 8: Sub Section 8.6: Additional Requirements</b></p> <p><b>Does the Respondent's proposal fully comply with the requirement below in</b></p>
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**8.6\*****time to meet the published implementation date?**

RX8-1: Valid Audit Statuses

Yes

**8.7\***

QUESTION:

**TRD FRS Section 8: Sub Section 8.7: Database Integrity Sampling****Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?**

RR8-1: Random Sampling of Active Subscription Versions  
 RR8-2.1: Data Integrity Sample Size - Tunable Parameter  
 RR8-2.2: Data Integrity Sample Size - Tunable Parameter Modification  
 RR8-2.3: Data Integrity Sample Size - Tunable Parameter Default  
 RR8-3.1: Data Integrity Frequency - Tunable Parameter  
 RR8-3.2: Data Integrity Frequency - Tunable Parameter Modification  
 RR8-3.3: Data Integrity Frequency - Tunable Parameter Default

Yes

**8.8\***

QUESTION:

**TRD FRS Section 8: Sub Section 8.8: Audit Processing in a Number Pool Environment Requirements****Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?**

RR8-6: Audit Processing for All Subscription Versions in a Number Pooling Environment  
 RR8-7: Audit Discrepancy and Results Notifications for Pooled Number Subscription Versions to Requesting SOA  
 RR8-8: Audit Discrepancy and Results Notifications for Pooled Number Subscription Versions for Audited TNs  
 RR8-9: Audit Status Attribute Value Change Notification Send for Pooled Number Blocks  
 RR8-10: Audit Attribute Value Change Notification Send for Pooled Number Blocks  
 RR8-11: Audit for Pooled Numbers and Block to EDR Local SMS  
 RR8-12: Audit Response – Ignore missing SVs for Pooled Ports at EDR Local SMS  
 RR8-13: Audit Response – Delete erroneous SVs for Pooled Ports at EDR Local SMS  
 RR8-14: Audit Response – Compare NPAC/SMS Block to Service Provider Block at EDR Local SMS  
 RR8-15: Audit Response – Block Missing from EDR Local SMS  
 RR8-16: Audit Response – Block Discrepant at EDR Local SMS  
 RR8-17: Audit Response – Extra Block at EDR Local SMS  
 RR8-18: Audit Processing – Skipping In-Progress Blocks

Yes

QUESTION:

**TRD FRS Section 8: Sub Section 8.9: Audit Processing in a Pseudo-LRN Environment Requirements**

The Audit processing that is described in this section deals with all Subscription Versions and Number Pool Blocks in a pseudo-LRN environment. Audit processing in a pseudo-LRN environment will use the information in the Service Provider's profile (NPAC Customer LSMS Pseudo-LRN Indicator) to determine whether to send a query for a TN/TN Range and/or Number Pool Block.

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<b>8.9*</b>	<p><b>Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?</b></p> <p>RR8-30: Audit of Pseudo LRN Subscription Versions-Query all LSMSs.                  RR8 31: Audit of Pseudo LRN Subscription Version Roll up Query results only for supporting LSMS.                  RR8-32: Audit of Pseudo LRN Number Pool Block query all LSMSs.                  RR8-33: A1Audit of Pseudo LRN Number Pool Block- Roll up query results only for supporting LSMS.                  RR8-34: Audit of Pseudo LRN Subscription Version Send Audit results to Originating SOA.                  RR8-35: Audit of Pseudo LRN Number Pool Block- Send Audit results to Originating SOA.                  RR8-36: Add/Modify /Delete TNs to Service Provider Pseudo LRN Subscription Versions.</p>
Yes	

## 9. TRD FRS Section 9: REPORTS

<b>9.1</b>	<p><b>STATEMENT:</b></p> <p><b>TRD FRS Section 9: Sub Section 9.1: Overview</b></p> <p>The NPAC/SMS must support scheduled and ad hoc report generation for selectable reports. The report generation service shall create output report files according to specified format definitions, and distribute reports to output devices as requested. A report distribution service shall be used to distribute report files to selected output devices. Authorized NPAC personnel can request reports from active database, history logs, error logs, traffic measurements, usage measurements, and performance reports.</p>
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<b>9.2*</b>	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 9: Sub Section 9.2: National Number Pooling Reports Requirements</b></p> <p><b>Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?</b></p> <p>R9-1: NPAC Personnel Report Selection                  R9-2: NPAC Personnel Selection of Output Destination                  R9-3: NPAC Personnel Re-print of Reports                  R9-4: NPAC Personnel Create Customized Reports                  R9-5: NPAC Personnel Define Scope and Filtering                  R9-6: Service Providers Receive Reports on Their Activities                  RX9-1: Service and Network Data Reports                  RX9-2: Service Provider Reports                  RX9-3: Subscription Data Reports                  RX9-4: System Reports                  RX9-5: Security Reports                  RX9-6: Log File Reports                  RX9-7: Audit Reports                  RX9-8: Regularly Scheduled Reports                  RR9-1: Data Integrity Report - Database Sample Report                  RR9-39: Pseudo-LRN Data in Reports - Service Provider Personnel                  RR9-40: Pseudo-LRN Data in Reports - NPAC Personnel</p>
Yes	

<b>QUESTION:</b>	Telcordia08074
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**ION**  
**TRD FRS Section 9: Sub Section 9.3: System Functionality Requirements**

**9.3\***

**Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?**

- R9-9: Verification of User Privileges
- R9-10: Support of On-Line Fire Transfer
- R9-11: Transaction History Log
- R9-12.1: Error Log - Transaction Errors
- R9-12.2: Error Log - Transmission Errors

Yes

**QUESTION:**

**TRD FRS Section 9: Sub Section 9.3.1: National Number Pooling Reports Requirements**

**Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?**

**9.3.1\***

- RR9-2: Pooled Number Reports - Query functions
- RR9-3: Pooled Number Reports - Block Holder Default Routing Report Data Elements
- RR9-4: Pooled Number Reports - Block Holder Default Routing Report Page Break
- RR9-7: Pooled Number Reports - OpGUI Report Generation
- RR9-8: Pooled Number Reports - Block Holder Default Routing Report
- RR9-9: Pooled Number Reports - Active-Like TNs in a NPA-NXX-X Report
- RR9-10: Pooled Number Reports - Active-Like TNs in a NPA-NXX-X Report Data Elements
- RR9-11: Pooled Number Reports - Pending-Like No-Active and Pending-Like Port-to-Original Subscription Versions Report
- RR9-12: Pooled Number Reports - Pending-Like No-Active and Pending-Like Port-to-Original Subscription Versions Report Data Elements
- RR9-13: Pooled Number Reports - Pending-Like No-Active and Pending-Like Port-to-Original Subscription Versions Report Sort Priority
- RR9-14: Pooled Number Reports - Pending-Like No-Active and Pending-Like Port-to-Original Subscription Versions Report Page Break
- RR9-15: Pooled Number Reports - Pending-Like With Active POOL Subscription Versions Report
- RR9-16: Pooled Number Reports - Pending-Like With Active POOL Subscription Versions Report Data Elements
- RR9-17: Pooled Number Reports - Pending-Like With Active POOL Subscription Versions Report Sort Priority
- RR9-18: Pooled Number Reports - Pending-Like With Active POOL Subscription Versions Report Page Break

Yes

**QUESTION:**

**TRD FRS Section 9.3: Sub Section 9.3.2: Cause Code Reports Requirements**

**Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?**

**9.3.2\***

- RR9-19: Logging Cause code usage by SPID Reporting
- RR9-20: Cause Code Usage Log Report via OpGUI
- RR9-21: Cause Code Usage Log Report Monthly Generation
- RR9-22: Cause Code Usage Log Report Sort Criteria

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	RR9-23: Cause Code Usage Log Report Selection Criteria RR9-24: Cause Code Usage Log Report Display
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Yes

<b>9.3.3*</b>	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 9: Sub Section 9.3.3: Resend Excluded Service Provider Report Requirements</b></p> <p><b>Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?</b></p> <p>RR9-25: Subscription Version Failed SP List - Excluded Service Provider Log Data Availability for the Excluded Service Provider Report</p> <p>RR9-26: Subscription Version Failed SP List - Resend Excluded Service Provider Report by Current SPID via OpGUI</p> <p>RR9-27: Subscription Version Failed SP List - Resend Excluded Service Provider Report by Current SPID Request</p> <p>RR9-28: Subscription Version Failed SP List - Resend Excluded Service Provider Report by Current SPID Request Sort Criteria</p> <p>RR9-29: Subscription Version Failed SP List -Resend Excluded Service Provider Report by Excluded SPID via OpGUI</p> <p>RR9-30: Subscription Version Failed SP List - Resend Excluded Service Provider Report by Excluded SPID Request</p> <p>RR9-31: Subscription Version Failed SP List -Resend Excluded Service Provider Report by Excluded SPID Request Sort Criteria</p> <p>RR9-32: Number Pool Block Failed SP List - Excluded Service Provider Log Data Availability for the Excluded Service Provider Report</p> <p>RR9-33: Number Pool Block Failed SP List -Resend Excluded Service Provider Report by Current SPID/Blockholder SPID via OpGUI</p> <p>RR9-34: Number Pool Block Failed SP List - Resend Excluded Service Provider Report Request by Current SPID/Blockholder SPID</p> <p>RR9 35: Number Pool Block Failed SP List Resend Excluded Service Provider Report by Current SPID/Blockholder SPID Request Sort Criteria</p> <p>RR9-36: Number Pool Block Failed SP List -Resend Excluded Service Provider Report by Excluded SPID via OpGUI</p> <p>RR9-37: Number Pool Block Failed SP List - Resend Excluded Service Provider Report by Excluded SPID Request</p> <p>RR9-38: Number Pool Block Failed SP List -Resend Excluded Service Provider Report by Excluded SPID Request Sort Criteria</p>
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Yes

## 10. TRD FRS Section 10: PERFORMANCE AND RELIABILITY

	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 10: Sub Section 10.1: Availability and Reliability</b></p> <p>This section defines the reliability, availability, performance and capacity requirements for the NPAC/SMS. The NPAC/SMS will be designed for high reliability, including fault tolerance and data integrity features, symmetrical multi-processing capability, and allow for economical and efficient system expansion.</p> <p><b>Does the Respondent's proposal fully comply with these requirements in time to meet the published implementation date?</b></p> <p>R10-1: System Availability</p>
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<b>10.1*</b>	<p><b>QUESTION:</b></p> <p>R10-2: System Reliability                  R10-3: Unscheduled Downtime                  R10-4: Mean Time to Repair for Unscheduled Downtime                  R10-5: Scheduled Downtime                  AR10 1: Scheduled Downtime                  R10-6.1: Communication Link Monitoring                  R10-6.2: Detecting Communication Link Failures                  R10-7: Detecting Single Bit Data Transmission Errors                  R10-8: Continue Transaction Processing After Downtime                  R10-9.1: Self Checking Logic                  R10-9.2: Continuous Hardware Checking                  R10-9.3: Duplexing of Hardware                  R10-9.4: Transparent Hardware Fault Tolerance                  R10-10.1: Service Provider Notification of System Unavailability                  R10-10.2: System Availability Notification Method                  R10-10.3: System Availability Notification Contents                  R10-11: Updates Highest Priority                  R10-12.1: Tolerance to Communication Link Outages                  R10-12.2: Alternate routing                  R10-13.1: Switch to Backup or Disaster Recovery Machine                  R10-13.2: Time to Switch Machines                  R10-13.3: Total Disaster Recovery                  R10-13.4: Full Functionality Restored                  R10-14: Reports on Reliability</p>
Yes	

<b>10.2*</b>	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 10: Sub Section 10.2: Capacity and Performance</b></p> <p><b>Does the Respondent's proposal fully comply with these requirements in time to meet the published implementation date?</b></p> <p>R10-16: Capacity                  R10-18: History File Data Storage                  R10-19: Broadcast Update Response Time                  R10-20: Request/Transaction Response Time                  R10-21: Future System Growth</p>
Yes	

<b>10.3*</b>	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 10: Sub Section 10.3: Requirements Not Given a Unique ID</b></p> <p><b>Does the Respondent's proposal fully comply with these requirements in time to meet the published implementation date?</b></p> <p>RN10-2: Return to the Primary Machine SOA Notification                  RN10-3: Return to the Primary Machine Local SMS Notification                  RN10-4: Database Sync after Return to the Primary Machine</p>
Yes	

## 11. TRD FRS Section 11: BILLING

	<p><b>QUESTION:</b></p> <p><b>TRD FRS Section 11: Sub Section 11.1: User Functionality</b></p>
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**11.1\***

**Does the Respondent's proposal fully comply with the requirements below, in time to meet the published implementation date?**

R11-1: Toggling the Generation of Usage Measurements

A11-2: Accounting Measurements Will Not Degrade the Basic System Performance

Yes

**11.2\***

QUESTION:

**TRD FRS Section 11: Sub Section 11.2: System Functionality**

**Does the Respondent's proposal fully comply with the requirements below, in time to meet the published implementation date?**

R11-2: Generating Usage Measurements for NPAC Resources

R11-3: Generating Usage Measurements for Allocated Connections

R11-4: Generating Usage Measurements for Allocated Mass Storage

R11-5: Generating Usage Measurements for the Number of Messages Processed by type

R11-6: Generating Usage Measurements for the Number of Messages Downloaded

R11-8: Generating Detailed Usage Measurement Reports

R11-9: Billing Report Types

R11-10: Full Billing Report

R11-11: Billing Report Creation by NPAC Personnel

R11-12: Billing Report Creation by Service Provider

R11-13: NPAC Personnel Billing Report Destination

R11-14: Service provider Billing Report Destination

R11-15: NPAC Personnel Only can Access Billing System

Yes

## 12. TRD Detailed Response

**12.1\***

QUESTION:

Please attach a **SUMMARY** document explaining how the Respondent's proposal addresses the requirements defined in this TRD survey, and explain in detail any differences and suggested areas of improvement (as an example, reduction of BDD processing time), or enhancements which may affect the NPAC/SMS implementation, ensuring the Respondent's proposal will not interfere with or degrade any porting/pooling activities.

This summary document should also be used to include an explanation of any "No" responses.

Attachments:

 [TRD\\_Section 12.1 TRD Detailed Response.pdf](#) (1.5 MB)

**Please note: Your response has been submitted to the sponsor. It is final and may not be edited.**





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## 1 Executive Summary

This document addresses question 12.1 of the 2015 LNP Technical Requirements Document (TRD) requesting a summary document explaining how the Respondent's proposal addresses the requirements defined in the 2015 LNP TRD survey, describes any additional enhancements being provided, and explains any non-conformances.

The Telcordia NPAC SMS solution is built on over 17 years of direct Telcordia experience working with and delivering products and services to the Number Portability industry both domestically as well as internationally. Telcordia in conjunction with SunGard as its data center and service partner provides a wealth of industry experience to offer a functionally compliant, secure, scalable, and reliable NPAC SMS solution as follows:

- i. **Quality and Experience** – Telcordia and its data center and service partner SunGard provide a demonstrated excellence in building number portability applications and operating data centers around the world.
  - a) Telcordia has a long history of designing and building software products using an industry-recognized software development methodology that is certified to the ISO 9001:2008 standard and certified to the TL 9000 quality standard for the telecommunications industry. Telcordia has developed and implemented Number Portability-related Clearinghouse (NPAC SMS-like) and local system products (SOA/LSMS and like) in the US, Canada and 15 other countries – **covering more than 1.5 billion subscribers**, far surpassing any other vendor's breadth of performance. Telcordia local products support over 90% of wireless porting in the US and 100% of wireless porting in Canada.
  - b) SunGard has a comprehensive Quality Assurance program in place, which consists of the internationally recognized ISO 9001:2008 standard and the Statement on Standards for Attestation Engagements (SSAE) No. 16. SunGard is one of the world's leading software and technology services companies. They provide software and technology services to telecommunications, financial services, education and public sector organizations. They also provide disaster recovery services, managed services, information availability consulting services and business continuity management software. SunGard serves approximately 25,000 customers in more than 70 countries.
- ii. **Full conformance to requirements plus additional features** – Telcordia's NPAC SMS solution fully conforms to all requirements in the NANC Functional Requirements Specification for the NPAC SMS and the NPAC SMS Interoperable Interface Specifications. This compliance translates to **no functional changes** to service providers' back end systems (i.e., SOA, LSMS, and other provisioning systems) in order to interface with the Telcordia NPAC SMS. Telcordia's proposal includes additional **customer focused add-on features** in operational areas to enhance our clients' experience with our solution, including:
  - a) **Responsive Help Desk Support** – the Telcordia Help Desk will be **staffed 24x7x365** allowing round the clock access to a Telcordia associate. The Help Desk can be accessed via telephone, email, web portal (e.g., web chat), or facsimile.
  - b) **Proactive Monitoring Dashboard** - an optional monitoring tool for service providers accessing the Telcordia NPAC SMS via a mechanized interface, allowing clients to quickly diagnose and rectify connectivity issues.
  - c) **Self-service access to Customer Ticketing and Knowledgebase** – giving clients control over entry and tracking of any type of service request (e.g., issue, enhancement, customized report) as well as search capabilities of a Knowledgebase that is regularly updated with problem resolutions or answers to Help Desk frequently asked questions. A single sign-on

capability to Telcordia administered NPAC SMSs and our operations tool suite is also provided.

iii. [REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED] separate from each other. Key benefits offered by the Telcordia NPAC SMS solution include:

- a) [REDACTED]  
[REDACTED]  
[REDACTED]
- b) **Access Choices** – access protocols are independent from the application – service providers can choose the access mechanism of their choice without affecting the application; service providers can migrate forward off of legacy protocols much easier and at their own pace.
- c) **Support Future Needs** – changes can be made to one layer without affecting the other layers – new feature support is localized to only those components affected minimizing cross impacts to ancillary software modules not involved in the change. This allows more **rapid and cost efficient** introduction of new functionality (clustering and spare capacity may also allow maintenance windows for upgrading software to be reduced).

iv. [REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

- v. **Robust Operations** – the Telcordia NPAC SMS Solution includes a set of operational tools that are built on best-in-class commercial off-the-shelf products that are aligned with Information Technology Information Library standards for IT Service Management. The key Service Management best practices supported by our Operations Architecture are *Service Operation* and *Continuous Service Improvement*, which include:
  - a) **Service Desk** – provides a single point of contact for customers and includes the Help Desk which logs all incidents/requests and performs first line investigation and diagnosis
  - b) **Event, Incident, and Problem Management** – logging, tracking, and diagnosing events (changes of state that may have significance), incidents (unplanned interruption or degradation of service) or problems (the cause of one or more incidents).
  - c) **Monitoring** – to detect the status of services and take appropriate action
  - d) **Service Measurement, Reporting and Service Level Management** - continuous monitoring, analysis, and reporting of service delivered versus committed service levels.

- vi. **Strict Security Procedures** – Telcordia adheres to a set of stringent security procedures at all levels – from software design, data and access encryption, employee hiring and management processes, and physical data center security. [REDACTED]

[REDACTED] Additionally, the data center is annually audited to verify that the environment is secure and properly managed.

The Telcordia NPAC SMS Solution and architecture components described are for a single regional NPAC SMS. Benefits of this solution are applicable to a full nationwide deployment across all regions as well to a regional deployment supporting multiple LNPAs where each LNPA serves a unique subset of the regions.

The Telcordia NPAC SMS provides a highly reliable and scalable solution that effectively manages costs now and in the future resulting in savings for the Industry.

## 2 Introduction

This TRD Summary document contains Telcordia’s Detailed Response to Section 12.1 of the 2015 LNPA Technical Requirements Document. Section 12.1 requested the following:

Please attach a SUMMARY document explaining how the Respondent's proposal addresses the requirements defined in this TRD survey, and explain in detail any differences and suggested areas of improvement (as an example, reduction of BDD processing time), or enhancements which may affect the NPAC SMS implementation, ensuring the Respondent's proposal will not interfere with or degrade any porting/pooling activities.

This summary document should also be used to include an explanation of any "No" responses.

This document summarizes why Telcordia is qualified to provide the NPAC SMS solution and how Telcordia’s NPAC SMS Solution meets the identified requirements through our highly-reliable solution and disaster recovery architecture, customer-focused operations, and robustly secure procedures.

### 2.1 Terminology

The following provides definitions for the acronyms used throughout this document.

Term	Definition
ASN.1	Abstract Syntax Notation number One
ATIS	Alliance for Telecommunications Industry Solutions
BDD	Bulk Data Download
CMIP	Common Management Information Protocol
CMISE	Common Management Information Service Element
CPU	Central Processing Unit
DBMS	Database Management System
FAQ	Frequently Asked Questions
FCC	Federal Communications Commission
FRS	Functional Requirement Specification
FTP	File Transfer Protocol
GB	Gigabyte
GDMO	Guideline for Definition of Managed Objects
GUI	Graphical User Interface
HTTPS	Hypertext Transfer Protocol Secure
ICP	Inter-carrier Communication Process
IIS	Interoperable Interface Specification
IP	Internet Protocol
ISO	International Standards Organization

Term	Definition
IVR	Interactive Voice Response
J2EE	Java2 Enterprise Edition
LAN	Local Area Network
LATA	Local Access Transport Area
LNP	Local Number Portability
LNPA	Local Number Portability Administration
LRN	Location Routing Number
LSMS	Local Service Management System
LTI	Low Tech Interface
M&P	Methods and Procedures
Mbps	Megabits per second
NANC	North American Numbering Council
NANP	North American Numbering Plan. A 10-digit numbering scheme used in North America to uniquely identify a directory number.
NANPA	North American Numbering Plan Administrator
NAPM	North American Portability Management
NOC	Network Operations Center
NP	Number Portability
NPAC	Number Portability Administration Center
NPAC SMS	Number Portability Administration Center Service Management System
NPA-NXX-X	A range of 1000 pooled TNs within the NPA-NXX, beginning with a station of n000, and ending with n999, where n is a value between 0 and 9.
OBF	Ordering and Billing Forum
OSI	Open System Interconnection
OSS	Operational Support System
PSAP	Public Safety Access Point
QMO	Quality Method of Operation
RAC	Oracle Real Application Clusters
RDBMS	Relational Database Management System
RFP	Request for Proposal
SAN	Storage Array Network
sFTP	Secure FTP
SLR	Service Level Requirement
SMS	Service Management System

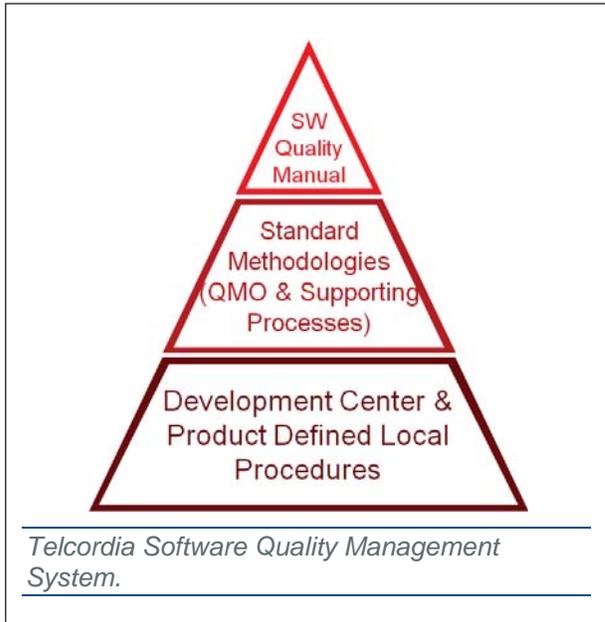
Term	Definition
SOA	Service Order Administration or Service Order Activation
SOAP	Simple Object Access Protocol
SP	Service Provider
SPID	Service Provider ID
SSAE	Statement on Standards for Attestation Engagements
TN	Telephone Number
WAN	Wide Area Network
WICIS	Wireless Inter-carrier Communication Interface Specification
WNP	Wireless Number Portability
XML	eXtensible Markup Language

### 3 Why Telcordia?: Quality Built on Experience

Transitioning the NPAC SMS support to a totally new vendor will prove to be the best-value, lowest-risk service option only if the new vendor is a rock-solid NAPM partner who can be relied upon to execute a seamless transition and provide a continuous quality service. Telcordia has for decades gained the broadest, deepest relevant experience during which we have built a set of best practices to the highest quality standards to position us as that singular, solid NAPM partner.

*Telcordia Quality Policy: Quality, defined as Customer Satisfaction, is our number one priority.*

Telcordia has a long history of designing and building our software products using an industry-recognized software development methodology that focuses on quality. This development methodology – our Quality Method of Operation (QMO) - is a component of the Telcordia Technologies Software Quality Management System, a three-tier set of process documentation that is certified to the ISO 9001:2008 standard and registered to the TL 9000 quality standard for the telecommunications industry. The SQMS provides the framework for developing software that meets our customer commitments and maintains the standards necessary to produce quality software.



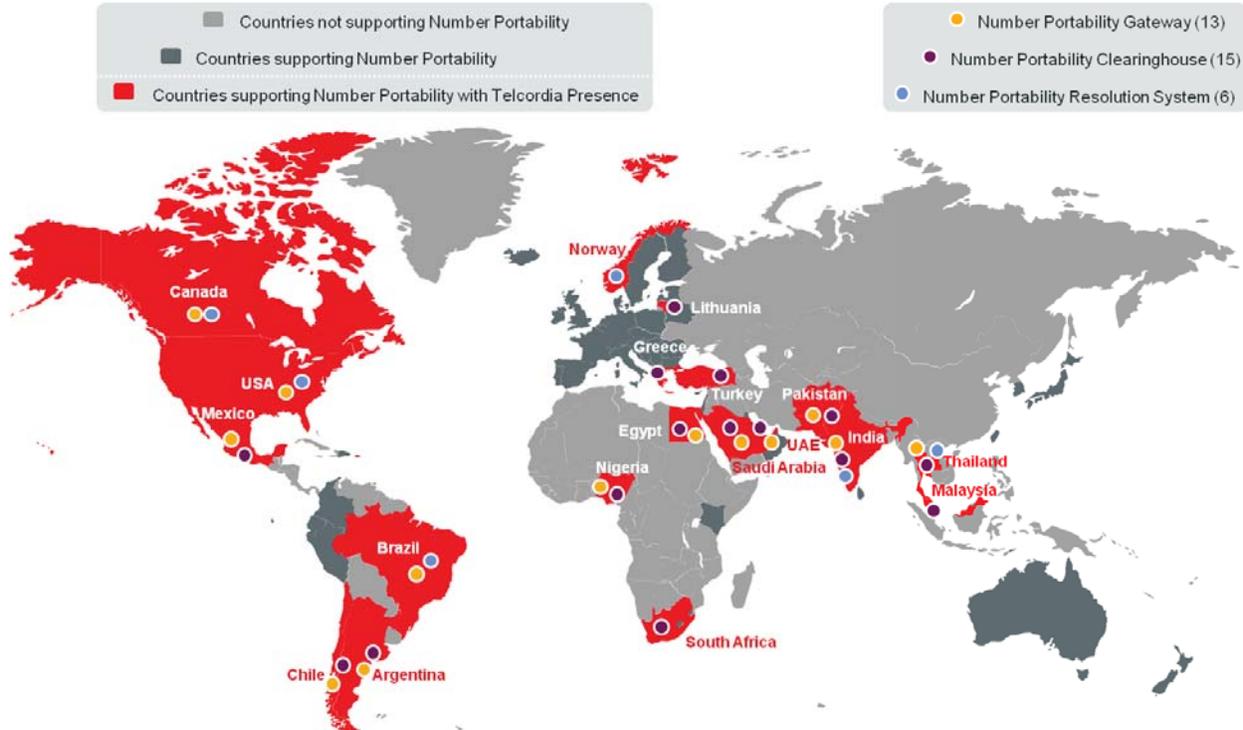
SunGard, Telcordia’s data center and services partner, is one of the world’s leading software and technology services companies. They provide software and technology services to telecommunications, financial services, education and public sector organizations. They also provide disaster recovery services, managed services, information availability consulting services and business continuity management software. SunGard serves approximately 25,000 customers in more than 70 countries. SunGard has a comprehensive Quality Assurance program in place, which consists of the internationally recognized ISO 9001:2008 standard and the Statement on Standards for Attestation Engagements (SSAE) No. 16 (which replaces the American Institute of Certified Public Accountants Statement on Auditing Standards (SAS) No. 70).

Telcordia together with SunGard have experience using certified methodologies to ensure a quality NPAC SMS software application is architected, designed, built, tested, and continually operated in order to satisfy the needs of the NAPM.

Telcordia together with SunGard have experience using certified methodologies to ensure a quality NPAC SMS software application is architected, designed, built, tested, and continually operated in order to satisfy the needs of the NAPM.

#### 3.1 Experience

Telcordia has developed and implemented Number Portability-related Clearinghouse (NPAC SMS-like) and local system (SOA/LSMS-like) products in the US, Canada, and 17 other countries -- **covering more than 2 billion subscribers**, far surpassing any other vendor’s breadth of performance, as further detailed in the Telcordia Response to the Vendor Qualification Survey component of the RFP [1].



**Figure 1 - Telcordia World Wide Number Portability Deployments**

In India, Telcordia has successfully built and is operating an NPAC SMS-like clearinghouse in a regional configuration – the India regulator has divided the country into two distinct regions and selected different administrators to build and operate the NPAC SMS-like system, with Telcordia selected as one of the administrators. Telcordia has also built local systems for operators in India that have successfully integrated with the two NPAC SMS-like clearinghouses to provision and activate ports.

In the US and Canada, Telcordia is the leading developer of the SOA and LSMS local systems that wireline and wireless service providers use to interface with the NPAC SMS. The SOA supports the provisioning functionality needed to initiate ports or define network related data in the NPAC SMS, and supports much of the same validation processing that the NPAC SMS performs. The LSMS supports the activation functionality needed to deploy routing data for ported numbers into the network.

*Over 90% of all wireless involved ports in the US and 100% in Canada use Telcordia gateways.*

Telcordia actively participates in North American Number Portability Industry Standards bodies (today known as the LNPA Working Group and its subgroups) with efforts including:

- ◆ Initial support to define the NPAC SMS CMIP interface specifications, NPAC SMS functional requirements, testing needs and methods and procedures to support the initial rollout of LNP.
- ◆ Continuing support to define and vet the NPAC SMS functional, interface, testing, and methods and procedures (M & P) changes needed as the industry approves change orders adding or modifying NPAC SMS capabilities. This effort included the number pooling and one day porting change orders in the past as well as NANC 372, the Alternative Interface.
- ◆ Support of the adoption of wireless number portability for which we were a prime contributor in defining the ATIS/OBF Wireless Inter-carrier Communications Interface Specification (WICIS) and associated changes in NPAC SMS functionality to support wireless number porting. Telcordia is also the provider of the North American Number Portability Gateway for wireless carriers that

implements the functionality to support WICIS and integrates it with SOA functionality to seamlessly interface with the NPAC SMS. The Telcordia North American Number Portability Gateway supports over 90% of the wireless porting in the US and 100% of wireless porting in Canada.

- ◆ Defining the NPAC SMS changes needed to support a NPAC SMS peering architecture (NANC change order 437), where two or more LNPAs could support a single region. This peering architecture defined the interoperating requirements to support peering, defining the functional requirements changes and inter-NPAC SMS interoperable interface specifications needed to support messaging among multiple NPAC SMSs within a region. Telcordia led the industry over an 18 month period through a review of the peering change order documentation in a very open and transparent fashion to present this solution and vetted over 200 issues. The majority of technical issues raised were discussed and resolved resulting in the peering architecture found to be a technically feasible solution. This effort demonstrates Telcordia's comprehensive understanding of the NPAC SMS.

Through our past and continued support of the US number portability industry, Telcordia has consistently demonstrated that we understand the requirements and operations of the NPAC SMS and are qualified to deliver the NPAC SMS.

## 4 Telcordia NPAC SMS Solution Functionality

### 4.1 Full Conformance to Industry Requirements

Telcordia is building and will deliver a fully compliant NPAC SMS solution which:

1. Meets **all** of the requirements specified in the NANC Functional Requirements Specification (FRS) for the NPAC SMS [2] as referenced in the TRD. The Telcordia NPAC SMS is implementing the business logic represented by the requirements in the NANC FRS, including building the Low Tech Interface (LTI) that allows service providers and LNPA Administrative users to directly access the NPAC SMS to perform their authorized functions via a secure web-based GUI.
  - **NOTE:** As specified in Section 7.1.3 of the LNPA RFP document [2] concerning the Elimination of NPAC SMS support of Non-EDR, Telcordia is using the latest FRS Requirements (NANC Version 3.4.2a, released 2/8/2013 and includes NANC change order 448, NPAC Sunset of non-EDR) which has removed requirements related to non-EDR functionality.
  - Telcordia recognizes the importance of proper management of all of the Industry's assets. This ranges from the physical facilities required to manage/operate the NPAC SMS solution to the data contained within the service. The appropriate security and privacy must be maintained and evolved as new features are implemented. Although Security concerns are addressed in the Section 15.1 response to the LNP RFP Survey, Section 8 of this TRD Summary also contains this Security Response.
2. Implements the CMIP interfaces to SOA and LSMS systems as described in the NPAC SMS Interoperable Interface Specification (IIS). These interfaces allow service providers to remotely communicate with the NPAC SMS over a mechanized interface to provision and activate ported numbers and number pool blocks. These interfaces also support other functions such as auditing and network data provisioning.
  - The Telcordia NPAC SMS supports the NPAC SMS IIS Part 1 [3] which together with the GDMO and ASN.1 describes the managed objects, security, and protocol requirements supported on the CMIP interface.
  - The Telcordia NPAC SMS supports the NPAC SMS IIS Part 2 [4], which describes the message flows identifying the messages and their sequencing between NPAC SMS and the SOA/LSMS systems to perform various tasks supported by the NPAC SMS.
3. Implements NANC Change Order 372, Alternative Interface, which is defining an HTTPS/XML interface as an alternative to the CMIP interface [5]. Telcordia has been actively involved in the industry review process for the functional requirements and interface specifications for this interface as it proceeds through the change order process in the industry. Telcordia is also implementing NANC Change Order 447 supporting IPv6.

### 4.2 Additional Solution Features





[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

- [REDACTED]
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- [REDACTED]



- [REDACTED]

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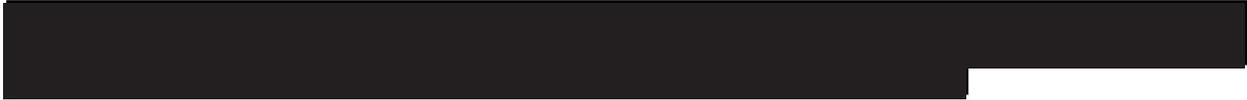
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[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]



## 5 Telcordia NPAC SMS Solution Architecture

[Redacted]

[Redacted]

[Redacted]

### 5.1 Functional Architecture

[Redacted]

- [Redacted]
- [Redacted]
- [Redacted]



[Redacted]

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## 5.2 Hardware Architecture

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[REDACTED]

[REDACTED]

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[REDACTED]

## 6 Disaster Recovery Architecture

[Redacted text block]

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- [Redacted list item]
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### 6.1 Production System Failover

[Redacted text block]

[Redacted text block]

[Redacted text block]

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### 6.2 Service Provider Connectivity Failover

[Redacted text block]

## 7 Telcordia NPAC SMS Operations Architecture

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[REDACTED]

[REDACTED]

[REDACTED]

## 7.1 Monitoring

[REDACTED]



[REDACTED]

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

[REDACTED]

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[REDACTED]

[REDACTED]

[REDACTED]

## 7.5 Identity and Access Management

[REDACTED]

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

[REDACTED]

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

## 7.6 Billing

[REDACTED]

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

[REDACTED]

[REDACTED]

## 7.7 Interactive Voice Response (IVR) System

As discussed in Section 6.9 of the 2015 LNPA RFP, Telcordia will provide an IVR system to allow authorized users, in a single call to the IVR system, to query and obtain Local Service Provider information (Local Service Provider Name and contact number (if available)) for up to a maximum of 20 telephone numbers (TNs) in a single call. The TNs can be ported, pooled, or non-porting. Authorized users include service providers, law enforcement agencies, and Public Safety Access Point Providers (PSAPs). Each authorized user (service provider, law enforcement agency, or PSAP) will be given a PIN to access the service.

. The IVR system will contain Service Provider contact data for each Service Provider. For each TN queried by a qualified user via the IVR, a query to the NPAC SMS DB or a secondary source would be initiated to determine the appropriate message response to provide the user – either the associated Service Provider contact data or “telephone number not ported”.

The IVR system will be able to record a detailed set of data for each call serviced, including the PIN of the user making the call, the TN(s) queried and results, and the start and end times of the call. Additionally the IVR system will be redundantly implemented in the Primary and Secondary Data Centers for Disaster Recovery purposes.

## 7.8 Enhanced Law Enforcement Platform

As discussed in Section 11.2 of the 2015 LNPA RFP, Telcordia will provide an Enhanced Law Enforcement Platform service to qualified law enforcement agencies and PSAPs that require access to NPAC SMS data beyond the IVR limitation of 20 TNs per access. This Platform is separate from the NPAC SMS and will provide both GUI and application protocol interface (API) access to qualified users through our secure website to retrieve information in bulk based on a range or list of TNs.

The Enhanced Law Enforcement Platform data elements that the service must make available are (as identified in Section 11.2 of the LNP RFP):

- ◆ NPAC SPID of the service provider associated with a TN
- ◆ Identity of that service provider
- ◆ The date on which the port(s) from one service provider (by NPAC SPID) to another service provider (by NPAC SPID) occurred with respect to that telephone number
- ◆ The current contact name and number for each service provider as submitted in any manner to the NPAC by each service provider as its law enforcement and/or emergency contact

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

### 7.9 Secure Website

A secure website, including password-administered access for all authorized users, provides a portal to access Telcordia NPAC SMS Solution information. This secure website is key for customers during the transition period as well as for ongoing production operations. This secure website provides:

- [REDACTED]
  - [REDACTED]
  - [REDACTED]
  - [REDACTED]
  - [REDACTED]
- [REDACTED]
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- [REDACTED]
- [REDACTED]
- [REDACTED]

## 7.10 Secure FTP Site

[REDACTED]

## 7.11 Intermodal Ported Number Identification sFTP Site

As discussed in Section 11.1 of the 2015 LNPA RFP, Telcordia will provide an intermodal ported number identification service to qualified limited user data recipients. This service allows qualified users to avoid engaging in Telephone Consumer Protection Act Prohibited Conduct (such as telemarketing to wireless numbers).

[REDACTED]

[REDACTED]

## 7.12 Public Website

Telcordia is also providing a public website which contains information on Number Portability and the NPAC role in Number Portability. It will also provide the information needed to become an NPAC user. All LNPA WG Best Practices will be available as well as a list and links to all public LNP documents including, but not limited to, the following:

- ◆ NPAC SMS FRS
- ◆ NPAC SMS IIS and XIS (XML Interface Specification for NANC 372)
- ◆ NPAC SMS GDMO and ASN.1 files
- ◆ NPAC SMS Industry Testing documents
- ◆ Current and Future NPAC SMS release information
- ◆ Relevant FCC Orders
- ◆ Link to Secure Website
- ◆ Links to other appropriate websites
- ◆ Other information as needed

## 8 Security

Telcordia recognizes the importance of proper management of all of the Industry’s assets. This ranges from the physical facilities required to manage/operate the NPAC to the data contained within the service. The appropriate security and privacy must be maintained and evolved as new features are implemented (e.g. change order NANC 372, the alternate interface or new feature that may contain more sensitive user data, such as those that support VoIP, LTE and advanced features).

As a local system vendor, Telcordia has many years of experience with supporting the required security implementations and protecting our customers’ assets across a large number of US service providers. One example of supporting application level security, Telcordia’s North American Number Portability Gateway is deployed in individual service provider environments and is also deployed in a Service Bureau arrangement supporting over 100 clients, some whom access the system via mechanized interfaces and others who access via a Web-based GUI. The North American Number Portability Gateway ensures that only authorized clients can access the system through either interfacing mechanism, ensures that users or systems only access and invoke capabilities for which they are authorized, and ensures users or systems can only access and modify their own data with the appropriate logging and notifications.

[Redacted text block]

[Redacted text block]

- [Redacted list item]

### 8.1 Meeting Data Center and Other Security Requirements

#### 8.1.1 [Redacted]

[Redacted text block]

[Redacted text block]

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- [Redacted list item]
- [Redacted list item]



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- [REDACTED]
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- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

[REDACTED]

[REDACTED]

### 8.1.2 Additional Security and Security Related Features

[REDACTED]

- [REDACTED]
- [REDACTED]
- [REDACTED]

[REDACTED]

## 8.2 Meeting FRS and IIS Security Requirements

### 8.2.1 Interface Security

[Redacted]

[Redacted]

[Redacted]

[Redacted]



[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

### 8.2.2 User Identification Management

[REDACTED]

### 8.2.3 User Authentication

The Telcordia NPAC SMS Solution provides a fully automated and complete NPAC user authentication function in full compliance with TRD Section 7.3 requirements. The Telcordia NPAC SMS establishes the validity of each service provider session be it a mechanized interface or LTI/Administrative GUI user session.

[REDACTED]

[REDACTED]

Only authorized Telcordia personnel with Security Administration privileges are able to create or access user authentication information.

### 8.2.4 Access Control

[REDACTED]

[REDACTED]

[REDACTED]

### 8.2.5 Data and System Integrity

The Telcordia NPAC SMS Solution supports and enforces the data and system integrity requirements identified in TRD Section 7.5.

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]. All infrastructure, source and NPAC related software and data will be housed in Telcordia-controlled data centers within the US.

The following touches upon how we'll ensure integrity for various Telcordia NPAC SMS components.

[REDACTED]

- [REDACTED]
- [REDACTED]



- [Redacted]

### 8.2.7 OSI Security

The Telcordia NPAC SMS Solution supports the OSI security requirements identified in TRD Section 7.9.

[Redacted]

[Redacted]

- [Redacted]
- [Redacted]
- [Redacted]

[Redacted]

[Redacted]



## 10 References

1. Telcordia Response to the 2015 LNPA Vendor Qualification Survey, Section 3.3.1
2. North American Numbering Council (NANC) Functional Requirements Specification, Number Portability Administration Center (NPAC) Service Management System (SMS), Release 3.4.2a, February 8, 2013.
3. NPAC SMS Interoperable Interface Specification, NANC Version 3.4.2a (Part 1), February 28, 2013.
4. NPAC SMS Interoperable Interface Specification, NANC Version 3.4.2a (Part 2), March 31, 2013.
5. NPAC SMS XML Interface Specification, NANC Version 0.12, February 22, 2013.
6. Information Technology Infrastructure Library (ITIL): <http://www.itil-officialsite.com/home/home.aspx>

## **BAFO QUESTION 2.3**

### **Best and Final Offer for National Fixed Rate Pricing - Option B**

**ENTIRE DOCUMENT IS  
HIGHLY CONFIDENTIAL**

Telcordia10000 – Telcordia10002

## **BAFO QUESTION 2.5**

### **Best and Final Offer for Regional Fixed Rate Pricing - Option B**

**ENTIRE DOCUMENT IS  
HIGHLY CONFIDENTIAL**

Telcordia10003 – Telcordia10005

## Best and Final Offer (BAFO) Survey Section 2 – BAFO Questions

### BAFO Survey Question 2.6 – Best and Final Offer for the Protection of Privacy

#### CONFIDENTIAL UNDER NON-DISCLOSURE AGREEMENT

*With respect to all responses provided to BAFO Questions, please explain the policies, policy framework and measures that Respondent will use to protect the privacy and confidential information of NPAC customers and their respective subscribers, customers and end users.*

*Please also explain how these privacy policies and measures relate to, and will be integrated with, the data security proposal that Respondent previously provided in response to the RFP survey, Vendor Qualification Survey, and TRD survey.*

*If Respondent does not wish to submit a best and final offer in response to this BAFO Question 6, Respondent must answer "no" to this question.*

#### Telcordia Response

**The following is the Telcordia response to the above question on Protection of Privacy providing the policies, policy framework and measures that Respondent will use to protect the privacy and confidential information of NPAC customers and their respective subscribers, customers and end users.**

**Included in the response is how these privacy policies and measures relate to, and will be integrated with, the data security proposal that Respondent previously provided in response to the RFP Survey, Vendor Qualification Survey, and TRD Survey.**

**The following information is intended as an overview for clarification purposes. The information originally provided in the RFP Survey, Vendor Qualification Survey and the TRD Survey is still valid regarding the Telcordia Solution.**

### 1.1 Introduction

The protection of privacy and confidential information of NPAC customers and their respective subscribers, customers and end users is of the utmost importance to Telcordia. Telcordia's commitment to ensuring and protecting the privacy and security of data shared with it is reflected in the original response to the RFP and the complementary information in this BAFO.

The Telcordia NPAC SMS Solution and Services will provide the data security to protect privacy and confidential information. As stated in the Telcordia response to RFP survey Question 15.1, Telcordia recognizes the importance of proper management of all of the Industry's assets. This ranges from the physical facilities required for the management/operation of the NPAC SMS to the data contained within the service. The appropriate security and privacy will be maintained and evolved as new features are implemented. Telcordia has many years of experience with supporting the required security implementations and protecting our customers' assets across a large number of US Service Providers.

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This document and the confidential information it contains shall be used by NAPM LLC solely in consideration of a possible business arrangement with iconectiv and for no other purpose, and shall only be distributed, routed or made available to authorized persons having a need to know in accordance with the NDA executed between the NAPM LLC and Telcordia Technologies, Inc. on October 1, 2012.

Telcordia Technologies, Inc. dba iconectiv.



- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

[REDACTED]

### 1.3 Policies Overview

[REDACTED]

[REDACTED]

[REDACTED]

#### 1.3.1 Security Administration Team

[REDACTED]

#### 1.3.2 Maintaining Data in the Continental United States

[REDACTED]

#### 1.3.3 Access Management

##### 1.3.3.1 Interface Security

[REDACTED]

### 1.3.3.2 Authentication of Users

[Redacted]

[Redacted]

[Redacted]

### 1.3.3.3 Access Control

[Redacted]

[Redacted]

[Redacted]

[Redacted]



### 1.3.3.4 Data and System Integrity

Policies are limited not only to security but also to the ongoing operations of the Data Center physical infrastructure, the application and the associated data. These policies also provide and maintain the integrity and availability of the data. The governance policy will prescribe when scheduled maintenance of the application and infrastructure will take place in accordance with NPAM LLC SLAs. This will ensure that the Service will be available as the Industry requires.

The majority of changes to the NPAC/SMS software will originate from the LNPA Working Group. Other changes may originate from the Telcordia engineering team and the operations team to enhance application processing. New software releases of the NPAC/SMS system will be based upon industry-defined schedules.

Telcordia has a well-defined governance policy to control all changes made in the Data Centers in order to ensure there are no impacts to NPAC SMS Solution and Services customers. No changes will be made to the Data Center hardware or software without approval from a Telcordia Change Management Board, in coordination with the customer as shown described in Section 5.3 of the Telcordia response to RFP Section 12.3.

### 1.3.3.5 [REDACTED]

[REDACTED]

### 1.3.4 [REDACTED]

[REDACTED]

### 1.3.5 Security of the Data Center

[REDACTED]

[REDACTED]

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

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- [REDACTED]

[REDACTED]

[REDACTED]

### 1.3.6 Vendor Code of Conduct

As indicated in the Telcordia response to RFP Section 12.1, all Telcordia employees follow the Ericsson Code of Business Ethics, which includes specific privacy and security provisions. In addition, our subcontractor, in its Global Business Conduct and Compliance Program, also has specific privacy and security provisions. Both documents are included as part of the original RFP response in VQS Section 3.5. Furthermore, all employees involved with the Telcordia NPAC SMS Solution and Services will follow an LNPA Code of Conduct, such as the one proposed in the Telcordia response. Telcordia will engage with the NAPM LLC to review and refine the LNPA Code of Conduct, as appropriate.

As LNPA, Telcordia will retain all decision making authority regarding LNPA services; any subcontractor will provide services to the specific direction of the LNPA and will not have discretionary decision making authority regarding LNPA services.

### 1.3.7 Neutrality

At all times, Telcordia and its subcontractor engaged in providing the Telcordia NPAC SMS Solution and Services will be a Neutral Third Party, as described in VQS Section 3.4. Telcordia and its subcontractor engaged in providing the NPAC Solution and Services are impartial and are not aligned with any particular telecommunications industry segment. Telcordia and its subcontractor engaged in providing the NPAC Solution and Services can assure that access to the NPAC/SMS for all qualified Users will be at all times evenhanded, impartial and nondiscriminatory.

The Telcordia response to VQS Section 3.5 included a Legal Opinion to substantiate the neutrality of Telcordia and its subcontractor engaged in providing the NPAC Solution and Services.



As described in Section 3.2.6.3 of the Telcordia response to RFP Section 15.1, a Neutrality Assurance team will ensure neutral performance of the LNPA's responsibilities and continuous compliance with the neutrality assurance plan.

## 1.4 Auditing and Reporting Related to Protection of Privacy and Confidential Information

To ensure that policies are being followed, procedures and personnel are audited on a scheduled basis.

[REDACTED]

### 1.4.1 Audits Required Under Master Agreements

[REDACTED]

[REDACTED]

### 1.4.2 ISO 20000-1

[REDACTED]

### 1.4.3 Data Center Audits (SSAE 16)

[REDACTED]

### 1.4.4 Neutrality Reviews

Telcordia will engage a third party to conduct reviews of the LNPA’s neutrality every six months in every region and deliver a legal opinion substantiating the LNPA’s neutrality during that six month period. This report will be delivered to the NAPM LLC and FCC. RFP Section 4.2 and Telcordia’s response provide additional details of Neutrality Reviews.

## 1.5 Summary

The Telcordia NPAC SMS Solution and Services is fully compliant with all requirements related to privacy and confidential information. This response describes the governance, policies/measures, and audits that protect privacy and confidential information.

The protection of privacy and confidential information of NPAC customers and their respective subscribers, customers and end users is of the utmost importance. The Telcordia NPAC SMS Solution and Services provide the data security to protect privacy and confidential information. As stated in the Telcordia response to RFP Section 15.1, Telcordia recognizes the importance of proper management of all of the Industry's assets. This ranges from the physical facilities required for the management/operation of the NPAC SMS to the data contained within the service. The appropriate security and privacy will be maintained and evolved as new features are implemented. Telcordia has many years of experience with supporting the required security implementations and protecting our customers' assets across a large number of US Service Providers.

As an LNPA, Telcordia will be engaged on an ongoing basis with the Industry and the NAPM LLC to ensure the appropriate policies are implemented and maintained to protect the privacy and confidential information of NPAC customers and their respective subscribers, customers and end users as the NPAC services continue to evolve.

The previously submitted Telcordia response to the LNPA RFP and the complementary information provided in this BAFO demonstrate Telcordia's ability to fulfill all LNPA RFP requirements for Protection of Privacy and Data Security.

## 1.6 Summary of Telcordia Protection of Privacy and Data Security Proposals in VQS, RFP, and TRD

The Protection of Privacy and Data Security Requirements in the tables below are a brief summary of what was provided in the survey documents.

In the tables below, Telcordia has highlighted the main requirements regarding the Protection of Privacy and Data Security in the RFP surveys. This does not change or modify any of the responses Telcordia has already submitted in its response to the RFP.

### VQS Survey:

Section Number	Protection of Privacy and Data Security Requirement	Telcordia Comments
3.4 and 3.5	Neutrality Requirements requiring Submittal of Legal Opinion	Legal Opinion submitted in original response and will be audited in accordance with the LNPA Contract
3.6.8	LNPA must submit request to be a User of the NPAC/SMS following the NUE Process	Agreed to comply
3.6.14	Provision of disaster recovery plans for Data Centers to ensure data on the NPAC/SMS is recoverable at all times	Agreed to comply and perform required audits and testing
3.6.15	NPAC/SMS servers and Data Centers and NPAC /SMS User Data must be maintained and stored in the continental US. No data relating to any such service will be stored, at, in, or through a site located outside of the continental US.	Agreed to comply
3.6.18	LNPA on behalf of itself and any subcontractors must agree that User Data shall be maintained as confidential information and may not be used or commercially exploited in any manner other than the performance of the LNPA's obligations under the Master Agreements and User Agreements subject to certain regulatory requirements or in certain cases, under the consent of the NAPM LLC as set forth in the Master Agreements	Agreed to comply

The processes and procedures that are discussed in this BAFO response fully support meeting the above requirements in the VQS survey.

RFP Survey:

Section Number	Protection of Privacy and Data Security Requirement	Telcordia Comments
4.2	Neutrality Review and Audits	Agreed to comply
4.4	LNPA NPAC/SMS Data Center Operations Audit on annual basis with provision of at least two redundant NPAC/SMS Data Centers separated geographically within continental US	Agreed to comply
4.6	Benchmarking Process	Agreed to comply
5	Administer User access to the NPAC/SMS following the requirements of the Master Agreement and the NUE Process	Agreed to comply
6.7	Data Center Security covering physical access and maintaining NPAC/SMS User Data in the continental US	Agreed to comply and support required audits
9	Service Level Requirements <ul style="list-style-type: none"> <li>• SLR 17 System Security- Security Error Log</li> <li>• SLR 18 System Security – Remedy Invalid Access Event</li> </ul>	Agreed to comply to all SLRs
11.1	Intermodal Ported Telephone Number Identification Service managing selection process of users and only providing access certain User Data elements as defined in the Master Agreement.	Agreed to comply
11.2	Enhanced Platform for Law Enforcement Agencies and Public Safety Answering Point Providers	Agreed to comply
12.1	Vendor Code of Conduct	Agreed to comply and provided requested materials
12.3	Transition and Implementation Plan	Provided plan with associated security organization
15	Optional Attachments	Section 2.4 in this document covered the security capabilities that will be offered and followed consistent with the RFP Survey requirements

The processes and procedures that are discussed in this BAFO response fully support meeting the above requirements in the RFP survey.



**TRD Survey:**

<b>Section Number</b>	<b>Protection of Privacy and Data Security Requirement</b>	<b>Telcordia Comments</b>
FRS Section 3 Sub Section 3.4	R3-15 LNPA must provide a Secure FTP Site for Database Extracts	Agreed to comply
FRS Section 7 Security	Covers all FRS security requirements	Agreed to comply. In addition to the overall security requirements, this section covers all existing NPAC SMS interfaces. The requirements for XML were not finalized in the FRS when the RFP was issued. Telcordia in its response agreed to XML interface which includes the security requirements.
12	TRD Detailed Response	Section 8 of that response covers security and its compliance with the TRD requirements.

The processes and procedures that are discussed in this BAFO response fully support meeting the above requirements in the TRD survey.

Welcome, Joel Zamlong with Telcordia Technologies Inc

[Logout](#)[Home](#) > [Current Projects](#) > [431766 - LNPA RFP](#) > [Project Package](#) > Survey-2015-LNPA-BAFO**Survey-2015-LNPA-BAFO****Survey Deadline: 9/18/2013 11:59:59 PM**

A survey is a simple way for a project sponsor to gather information about your company to determine the possibility of doing business. These surveys typically include general questions about the company, specifications of goods and services to be provided, expertise, and other questions specific to the sponsor. You have been invited to respond to this survey.

**Please note: Your response has been submitted to the sponsor. It is final and may not be edited.**

## 1. Introduction

**STATEMENT:****Request for Best and Final Offers****CONFIDENTIAL UNDER NON-DISCLOSURE AGREEMENT****1.1**

Pursuant to Section 13.6 of the 2015-LNPA-RFP-1 survey (RFP Survey), the Future of the NPAC Subcommittee (FoNPAC), an advisory committee of the North American Portability Management LLC (NAPM LLC), requests best and final offers as expressly set forth in this survey (BAFO Survey). Unless otherwise expressly provided in this BAFO Survey, capitalized terms have the meanings set forth in the RFP Survey. All responses to this BAFO Survey become the property of the NAPM LLC upon submission. This BAFO Survey and all responses thereto will be treated as Confidential Information in accordance with the terms of the confidentiality agreement by and between the NAPM LLC and the Respondent.

**STATEMENT:****BAFO Survey Response Instructions****CONFIDENTIAL UNDER NON-DISCLOSURE AGREEMENT**

1. All responses to this BAFO Survey must be submitted through the Iasta® SmartSource SRM® Tool.
2. All responses to this BAFO Survey must be complete, truthful, and accurate. Material misrepresentations or omissions may result in disqualification or reductions in scoring.
3. Every question in the BAFO Survey must be answered before a response can be submitted in the Iasta® SmartSource SRM® Tool.

**1.2**

4. Substantive responses to BAFO Questions 2.1 through 2.6 must be provided in attachments that, apart from the response to BAFO Question 2.6, use the same format provided in Section 14.2 of the RFP Survey.

5. Each page of any attachment submitted in response to this BAFO Survey must state: (a) "Request for Proposal No. 2015-LNPA-BAFO"; (b) the number of the BAFO Question to which the attachment responds; and (c) "CONFIDENTIAL UNDER NON-DISCLOSURE AGREEMENT".

6. Responses to this BAFO Survey submitted by the Respondent through IASTA® SmartSource SRM® Tool supersede any conflicting responses by the Respondent to the Request for Proposal (RFP) Survey, the Vendor Qualification Survey (VQS), or the Technical Requirements Document (TRD) Survey.

7. All responses to this BAFO Survey must be submitted in the Iasta® SmartSource SRM® Tool on or before 23:59:59 EDT on the September 18, 2013 (BAFO Deadline) in accordance with Section 1.4 of this BAFO Survey. Responses submitted after the BAFO Deadline will not be considered.

8. In exchange for consideration of a Respondent's submission to this BAFO survey, Respondent agrees by such submission to indemnify and hold harmless the NAPM LLC, the FoNPAC, its employees, officers, agents, contractors, consultants, Members, and counsel from and against any and all liabilities, demands, damages, expenses and losses arising from such submission and any subsequent award or decision not to award a contract pursuant to the RFP or the vendor selection process. The Respondent shall be solely responsible for any claims, costs, or damages it incurs in connection with all submissions of and responses to this BAFO survey.

9. All questions about this BAFO Survey must be posted in the on-line "Forum" in the Iasta® SmartSource SRM® Tool. The FoNPAC will answer questions posted on the Forum as soon as possible. Please note that all questions and answers can be viewed by any party with access to this BAFO survey in the Iasta® SmartSource SRM® Tool.

**STATEMENT:****BAFO Process Time Line**

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The timeline for the BAFO process is as follows:

**1.3**

**08/16/2013** BAFO survey open in Iasta® SmartSource SRM® Tool

**09/18/2013** BAFO survey closes and must be submitted in the Iasta® SmartSource SRM® Tool at 23:59:59 EDT

Pursuant to Section 1.5 of the RFP Survey, the FoNPAC reserves the right to modify or adjust the dates in the timeline, or otherwise change or amend the timeline, with the consent of the Federal Communications Commission (FCC).

QUESTION:

**Respondent BAFO Acknowledgement****1.4\*****CONFIDENTIAL UNDER NON-DISCLOSURE AGREEMENT**

By submitting a response to this BAFO Survey, Respondent acknowledges and agrees to all of the terms and conditions set forth in all of the RFP surveys, including the RFP Survey, VQS, TRD Survey, and this BAFO Survey.

Acknowledged

**2. BAFO QUESTIONS**

QUESTION:

**BAFO QUESTION 1: Best and Final Pricing Offer for original proposal(s) submitted in response to Section 14 of the RFP Survey****2.1\*****CONFIDENTIAL UNDER NON-DISCLOSURE AGREEMENT**

With respect to the original proposal(s) submitted in response to Section 14 of the RFP Survey, please:

(a) provide Respondent's best and final offer with respect to pricing; and

(b) specifically identify all non-pricing changes to the original proposal(s), if any, that the best and final offer for BAFO Question 1 reflects.

If Respondent does not wish to submit a best and final offer in response to this BAFO Question 1, Respondent must answer "no" to this question.

YES

**Optional Comments:**

The Telcordia responses to this BAFO Question 1 are provided in the responses to BAFO questions 2 through 5 in sections 2.2, 2.3, 2.4 and 2.5, respectively.

Optional Attachments: ION

<b>2.2*</b>	<p>QUESTION:</p> <p><b>BAFO QUESTION 2: Best and Final Offer for National Fixed Rate Pricing - Option A</b></p> <p><b>CONFIDENTIAL UNDER NON-DISCLOSURE AGREEMENT</b></p> <p>Please provide your best and final offer for serving all seven (7) NPAC Regions based on fixed rate pricing that:</p> <p>(a) excludes all annual price escalators, all transaction volume floors, all transaction volume ceilings, any recovery of any unpaid user invoices from the rest of the industry, and all credits or incentives of any kind; and</p> <p>(b) includes all Statements of Work (SOWs).</p> <p>Specifically identify all non-pricing changes to the original proposal(s), if any, that the best and final offer for BAFO Question 2 reflects.</p> <p>If Respondent does not wish to submit a best and final offer in response to this BAFO Question 2, Respondent must answer "no" to this question.</p>
<p>YES</p> <p>Optional Comments:</p> <p>The Telcordia Best and Final Offer for National Fixed Rate Pricing which includes all the points noted in items (a) and (b) is provided in the attachment. The offer does not change any of the responses to non-pricing items that Telcordia provided in its already submitted offer to the LNPA RFP. The details of the BAFO offer are included in the attachment following the format specified in section 14.2 of the LNPA RFP as requested.</p> <p>Optional Attachments:</p> <p> <a href="#">BAFO QUESTION 2.2 - Best and Final Offer for National Fixed Rate Pricing - Option A.xlsx</a> (18 KB)</p>	

<b>2.3*</b>	<p>QUESTION:</p> <p><b>BAFO QUESTION 3: Best and Final Offer for National Fixed Rate Pricing - Option B</b></p> <p><b>CONFIDENTIAL UNDER NON-DISCLOSURE AGREEMENT</b></p> <p>Please provide your best and final offer for serving all seven (7) NPAC Regions based on:</p> <p>(a) fixed rate pricing that excludes all annual price escalators, all transaction volume floors, all transaction volume ceilings, any recovery of any unpaid user invoices from the rest of the industry, all credits or incentives of any kind, and all SOWs; and</p> <p>(b) separate pricing for SOWs (please explain in detail your proposal for separately pricing SOWs).</p>
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Specifically identify all non-pricing changes to the original proposal(s), if any, that the best and final offer for BAFO Question 3 reflects.

If Respondent does not wish to submit a best and final offer in response to this BAFO Question 3, Respondent must answer "no" to this question.

YES

**Optional Comments:**

The Telcordia Best and Final Offer for National Fixed Rate Pricing which includes all the points noted in items (a) and (b) is provided in the first attachment. The offer does not change any of the responses to non-pricing items that Telcordia provided in its already submitted offer to the LNPA RFP. The details of the BAFO offer are included in the first attachment following the format specified in section 14.2 of the LNPA RFP as requested.

In this question, item (b), separate pricing for SOWs (please explain in detail your proposal for separately pricing SOWs) is requested. We assumed that the referenced SOWs are those in section 7.2 of the LNPA RFP Survey which are titled Future Considerations. The specific LNPA RFP 7.2 SOWs are:

1. Automation of Processes Between NPAC and PAS
2. Combining Steps for Intra-Service Provider Ports
3. Inter Carrier Communications
4. Future Regulatory Mandated Changes
5. PSTN to IP

In its originally submitted response to section 7.3 of the LNPA RFP survey, Telcordia describes the approach and functionality to be delivered for each of the SOWs, listed above, based on agreement on the requirements reached with the industry for each of the items.



The first attachment (BAFO QUESTION 2.3 - Best and Final Offer for National Fixed Rate Pricing - Option B.xlsx) provides the BAFO pricing with the SOWs not included.

The second attachment (BAFO QUESTION 2.3 - Best and Final Offer for National Fixed Rate Pricing - Option B.pdf) provides further details on the separately priced SOWs.

**Optional Attachments:**

[BAFO QUESTION 2.3 - Best and Final Offer for National Fixed Rate Pricing - Option B.xlsx](#) (18.1 KB)

[BAFO QUESTION 2.3 - Best and Final Offer for National Fixed Rate Pricing - Option B.pdf](#) (207.4 KB)

**QUESTION:**

**BAFO QUESTION 4: Best and Final Offer for Regional Fixed Rate Pricing - Option A**

**CONFIDENTIAL UNDER NON-DISCLOSURE AGREEMENT**

Please provide your best and final offer for serving any combination of NPAC Regions having approximately fifty (50) percent of the cumulative national NPAC transactions based on fixed rate pricing that:

**2.4\***

(a) excludes all annual price escalators, all transaction volume floors, all transaction volume ceilings, any recovery of any unpaid user invoices from the rest of the industry, and all credits or incentives of any kind; and

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(b) includes all Statements of Work (SOWs).

Specifically identify all non-pricing changes to the original proposal(s), if any, that the best and final offer for BAFO Question 4 reflects.

If Respondent does not wish to submit a best and final offer in response to this BAFO Question 4, Respondent must answer "no" to this question.

YES

**Optional Comments:**

The Telcordia Best and Final Offer for Regional Fixed Rate Pricing which includes all the points noted in items (a) and (b) is provided in the attachment. The offer does not change any of the responses to non-pricing items that Telcordia provided in its already submitted offer to the LNPA RFP. The details of the BAFO offer are included in the attachment following the format specified in section 14.2 of the LNPA RFP as requested.

**Optional Attachments:**

 [BAFO QUESTION 2.4 - Best and Final Offer for Regional Fixed Rate Pricing - Option A.xlsx](#) (18.2 KB)

**QUESTION:**

**BAFO QUESTION 5: Best and Final Offer for Regional Fixed Rate Pricing - Option B**

**CONFIDENTIAL UNDER NON-DISCLOSURE AGREEMENT**

Please provide your best and final offer for serving any combination of NPAC Regions having approximately fifty (50) percent of the cumulative national NPAC transactions based on:

**2.5\***

(a) fixed rate pricing that excludes all annual price escalators, all transaction volume floors, all transaction volume ceilings, any recovery of any unpaid user invoices from the rest of the industry, all credits or incentives of any kind, and all SOWs; and

(b) separate pricing for SOWs (please explain in detail your proposal for separately pricing SOWs).

Specifically identify all non-pricing changes to the original proposal(s), if any, that the best and final offer for BAFO Question 5 reflects.

If Respondent does not wish to submit a best and final offer in response to this BAFO Question 5, Respondent must answer "no" to this question.

YES

**Optional Comments:**

The Telcordia Best and Final response to its offer for Regional Fixed Rate Pricing which includes all the points noted in items (a) and (b) is provided in the first attachment. The offer does not change any of the responses to non-pricing items that Telcordia provided in its already submitted offer to the LNPA RFP. The details of the BAFO offer are included in the first attachment following the format specified in section 14.2 of the LNPA RFP as requested.

In this question, item (b), separate pricing for SOWs (please explain in detail your proposal for separately pricing SOWs) is requested. We assumed that the referenced SOWs are those in section 7.2 of the LNPA RFP Survey which are titled Future Considerations. The specific LNPA RFP 7.2 SOWs are:

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- 1. Automation of Processes <sup>ION</sup> Between NPAC and PAS
- 2. Combining Steps for Intra-Service Provider Ports
- 3. Inter Carrier Communications
- 4. Future Regulatory Mandated Changes
- 5. PSTN to IP

In its originally submitted response to section 7.3 of the LNPA RFP survey, Telcordia describes the approach and functionality to be delivered for each of the SOWs, listed above, based on agreement on the requirements reached with the industry for each of the items.



The first attachment (BAFO QUESTION 2.5 - Best and Final Offer for Regional Fixed Rate Pricing - Option B.xlsx) provides the BAFO pricing with the SOWs not included.

The second attachment (BAFO QUESTION 2.5 - Best and Final Offer for Regional Fixed Rate Pricing - Option B.pdf) provides further details on the separately priced SOWs.

**Optional Attachments:**

-  [BAFO QUESTION 2.5 - Best and Final Offer for Regional Fixed Rate Pricing - Option B.xlsx](#) (18.3 KB)
-  [BAFO QUESTION 2.5 - Best and Final Offer for Regional Fixed Rate Pricing - Option B.pdf](#) (206.9 KB)

<b>2.6*</b>	<p><b>QUESTION:</b></p> <p><b>BAFO QUESTION 6: Best and Final Offer for the Protection of Privacy</b></p> <p><b>CONFIDENTIAL UNDER NON-DISCLOSURE AGREEMENT</b></p> <p>With respect to all responses provided to BAFO Questions, please explain the policies, policy framework and measures that Respondent will use to protect the privacy and confidential information of NPAC customers and their respective subscribers, customers and end users.</p> <p>Please also explain how these privacy policies and measures relate to, and will be integrated with, the data security proposal that Respondent previously provided in response to the RFP survey, Vendor Qualification Survey, and TRD survey.</p> <p>If Respondent does not wish to submit a best and final offer in response to this BAFO Question 6, Respondent must answer "no" to this question.</p>
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YES

**Optional Comments:**

In its previously submitted proposal to the LNPA RFP, Telcordia responded to all the questions regarding Protection of Privacy. In response to this question, Telcordia is providing further details to explain the policies, policy framework and measures that the Respondent will use to protect the privacy and confidential information of NPAC customers and their respective subscribers, customers and end users. The attachment also explains how these privacy policies and measures relate to, and will be integrated with, the data security proposal that Respondent previously provided in response to the RFP survey, Vendor Qualification Survey, and TRD survey.

**Optional Attachments:**

-  [BAFO QUESTION 2.6 - Best and Final Offer for the Protection of Privacy.pdf](#) (280.4 KB)

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2.7\*

QUESTION:

**BAFO QUESTION 7: Best and Final Offer for Negotiation Expenses****CONFIDENTIAL UNDER NON-DISCLOSURE AGREEMENT**

With respect to each of Respondent's proposals, would Respondent pay the substantiated and reasonable expenses of the NAPM LLC associated with negotiation of the Master Agreements for each NPAC region awarded to Respondent, including (a) NAPM LLC attorneys' fees and expenses (including travel and lodging), and (b) the travel and lodging expenses of the NAPM LLC Member representatives, so long as such expenses do not exceed the expenses of the Respondent associated with negotiation of the Master Agreements for each NPAC region awarded to Respondent, including (a) Respondent's attorneys' fees and expenses (including travel and lodging), and (b) the travel and lodging expenses of the Respondent representatives? To the extent necessary, Respondent may provide further explanation in an attachment.

YES

**Optional Comments:**

Telcordia would pay substantiated and reasonable expenses of the NAPM LLC associated with negotiation of the Master Agreements for each NPAC region awarded to Respondent, including (a) NAPM LLC attorneys' fees and expenses (including travel and lodging), and (b) the travel and lodging expenses of the NAPM LLC Member representatives, so long as such expenses do not exceed the expenses of the Respondent associated with negotiation of the Master Agreements for each NPAC region awarded to Respondent, including (a) Respondent's attorneys' fees and expenses (including travel and lodging), and (b) the travel and lodging expenses of the Respondent representatives.

**Optional Attachments:**

**Please note: Your response has been submitted to the sponsor. It is final and may not be edited.**

## **BAFO QUESTION 2.2**

### **Best and Final Offer for National Fixed Rate Pricing - Option A**

**ENTIRE DOCUMENT IS  
HIGHLY CONFIDENTIAL**

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## **BAFO QUESTION 2.3**

### **Best and Final Offer for National Fixed Rate Pricing - Option B**

**ENTIRE DOCUMENT IS  
HIGHLY CONFIDENTIAL**

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## **BAFO QUESTION 2.4**

### **Best and Final Offer for Regional Fixed Rate Pricing - Option A**

**ENTIRE DOCUMENT IS  
HIGHLY CONFIDENTIAL**

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## **BAFO QUESTION 2.5**

### **Best and Final Offer for Regional Fixed Rate Pricing - Option B**

**ENTIRE DOCUMENT IS  
HIGHLY CONFIDENTIAL**

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