Change Order Form

**Origination Date** (mm/dd/yyyy): 09/10/2025

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**(NOTE: Originator(s) to complete this section of the form along with Sections 1, 2 and 3)**

1. **CO Name/Description: Update Language to Clarify Primary SPID TPS Requirements – Doc Only**

**Functional Backwards Compatible:** Yes

**IMPACT/CHANGE ASSESSMENT**

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

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

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

1. **Business Need:**

The Architecture Planning Team (APT) discussed and determined the need to clarify the current FRS transactions-per-second (TPS) rate requirements regarding how the TPS requirements apply for Service Bureau/Primary SPIDs that may have one or more secondary SPIDs. These TPS requirements in the FRS indicate that the supported transaction rate for the SOA-to-NPAC SMS interface and the NPAC SMS-to-Local SMS interface is defined per “association”, which is a construct and term that applies to the CMIP interface but should be updated to apply generically across any mechanized interface.

The use of the “association” concept in the current TPS FRS requirements does not adequately apply to both the CMIP and XML interfaces, and has caused confusion with how the requirements apply to Primary SOA SPIDs vs. Secondary SOA SPIDs.

See also PIM 160.

1. **Description of Change:**

This Doc Only change order clarifies the language in the FRS transactions-per-second (TPS) requirements to eliminate use of the CMIP term “association” and instead refer to Primary SPID (for SOA mechanized interfaces) and LSMS SPID (for LSMS mechanized interfaces). Note that the concept of Primary and Secondary SPIDs does not apply to the LSMS interface.

**FRS:**

### 6.4.2 Interface Performance Requirements

[snip]

R6-28.1 SOA to NPAC SMS interface transaction rates - sustained

A transaction rate of 7.0 CMIP/XML transactions (sustained) per second shall be supported over the SOA-to-NPAC SMS interface on a per primary SPID basis. The SOA-to-NPAC SMS interface transactions consist of “Active-like” requests that cause LSMS transactions, “Pending-like” requests that do not cause LSMS transactions, and notifications sent from NPAC SMS to SOA. Since “Active like” SOA-to-NPAC SMS transactions result in LSMS transactions, it is expected that these transactions do not cause the LSMS transaction rates to exceed the requirements defined in RR6-108 NPAC SMS-to-Local SMS interface transaction rates – sustained and RR6-109 NPAC SMS-to-Local SMS interface transaction rates – total bandwidth.

R6-28.2 SOA to NPAC SMS interface transaction rates - peak

NPAC SMS shall support a rate of 10.0 CMIP/XML transactions per second (peak for a five minute period, within any 60 minute window) over the SOA-to-NPAC SMS interface on a per primary SPID basis. The SOA-to-NPAC SMS interface transactions consist of “Active-like” requests that cause LSMS transactions, “Pending-like” requests that do not cause LSMS transactions, and notifications sent from NPAC SMS to SOA. Since “Active like” SOA-to-NPAC SMS transactions result in LSMS transactions, it is expected that these transactions do not cause the LSMS transaction rates to exceed the requirements defined in RR6-108 NPAC SMS-to-Local SMS interface transaction rates – sustained and RR6-109 NPAC SMS-to-Local SMS interface transaction rates – total bandwidth.

R6-29.1 NPAC SMS-to-Local SMS interface transaction rates

DELETED

R6-29.2 NPAC SMS-to-Local SMS interface transaction rates - peak

DELETED

RR6-107 SOA to NPAC SMS interface transaction rates – total bandwidth

NPAC SMS shall support a total bandwidth of 70.0 SOA CMIP/XML transactions per second (sustained) for a single NPAC SMS region. (previously NANC 393, NewReq 1) The SOA-to-NPAC SMS interface transactions consist of “Active-like” requests that cause LSMS transactions, “Pending-like” requests that do not cause LSMS transactions, and notifications sent from NPAC SMS to SOA. Since “Active like” SOA-to-NPAC SMS transactions result in LSMS transactions, it is expected that these transactions do not cause the LSMS transaction rates to exceed the requirements defined in RR6-108 NPAC SMS-to-Local SMS interface transaction rates – sustained and RR6-109 NPAC SMS-to-Local SMS interface transaction rates – total bandwidth.

RR6-108 NPAC SMS-to-Local SMS interface transaction rates – sustained

NPAC SMS shall support a rate of 7.0 CMIP/XML transactions per second (sustained) over the NPAC SMS-to-Local SMS interface for each LSMS SPID. (previously NANC 393, NewReq 2)

RR6-109 NPAC SMS-to-Local SMS interface transaction rates – total bandwidth

NPAC SMS shall support a total bandwidth of 210 Local SMS CMIP/XML transactions per second (sustained) for a single NPAC SMS region. (previously NANC 393, NewReq 3)

[snip]

**IIS:**

No Change Needed.

**EFD (IIS APPENDICES A AND B):**

No Change Needed.

**GDMO:**

No Change Needed.

**ASN.1:**

No Change Needed.

**XIS:**

No Change Needed.

**XSD:**

No Change Needed.