**Origination Date:** 1/9/18

**Originator:** iconectiv

### Change Order Number: NANC 515 v2

**Description:** XML Messages – Boolean Attributes

**Functional Backwards Compatible:** Yes

**IMPACT/CHANGE ASSESSMENT**

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

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| XML | XIS | XSD | **Neustar NPAC** | iconectiv NPAC | SOA | LSMS |
| Y | N | N | Y | N | N |

**Business Need**

The NPAC SMS XML Interface Specification (XIS) is based on the W3C standards, which defines the boolean data type to have allowed values of ‘false’ or ‘true’ or ‘0’ or ‘1’. The boolean data type is used to represent the port-to-original indicator, the Old SP Authorization, and the Old and New SP Medium Timer Indicator in SV related requests and to represent the SOA Origination Indicator for Number Pool Block related requests on the NPAC SMS and in its mechanized interface messages. Some local systems can support sending ‘false, ‘true, ‘0’ or ‘1’ for boolean attributes in XML interface messages to NPAC SMS, but can only support receiving a ‘0’ or ‘1’ for boolean attributes in XML interface messages from the NPAC SMS. The iconectiv NPAC implemented sending ‘false’ or ‘true’ for boolean attributes in XML interface messages to SOAs/LSMSs as allowed by the standards. To avoid changes to local systems, the iconectiv NPAC SMS will provide an accommodation by only sending a ‘0’ or ‘1’ for boolean attributes in XML interface messages to SOAs and LSMSs (but will still support, per the standards, receiving ‘false’, ‘true’, ‘0’, or ‘1’ for boolean attributes in XML interface messages from local systems).

**Description of Change:**

Changes detailed below.

XIS:

Section 4 on XML Interface Schema:

[snip]

There are several conventions used in the schema in an attempt to provide a consistent and logical representation of the messages:

* Requests from the SOA/LSMS to the NPAC all end with “Request”. For example, NpbQueryRequest and ActivateRequest.

[snip]

* There are several lexical conventions used in the schema:
  + - * A prefix of Npb in a message name indicates the message is related to a Number Pooled Block.
      * A prefix of Sv in a message name indicates the message is related to a Subscription Version.
      * A prefix of svb is used for any attribute that can exist in either a Subscription Version or a Number Pooled Block.
      * Attribute names are lower-case and have segments separated with underscores (e.g. svb\_lrn). Message names and data types are mixed case, with segments using upper-case (e.g. SpidCreateDownload, NumberString).
      * An instance of a datatype that is defined as [boolean](http://www.w3.org/TR/xmlschema-2/" \l "dt-boolean) can have the following legal literals {true, false, 1, 0} in interface messages originating from SOAs/LSMSs to the NPAC SMS. **But**, when NPAC SMS sends messages to the SOAs/LSMSs, the NPAC SMS will only use the legal literals {1, 0} for boolean attributes in those interface messages.

Section 5.6 on NPAC to SOA Interface Messages.

In the following sections that depict example XML interface messages from NPAC to SOA that contain one or more boolean attributes with a value of ‘false’ or ‘true’, the value of the boolean attributes will be changed to ‘0’ or ‘1’.

* 5.6.33.2 NpbQueryReply XML Example: <block\_soa\_origination>~~false~~0</block\_soa\_origination>
* 5.6.41.2 SvAttributeValueChangeNotification XML Example: <sv\_old\_sp\_authorization>~~true~~1</sv\_old\_sp\_authorization>  
  <sv\_new\_sp\_medium\_timer\_indicator>~~true~~1</sv\_new\_sp\_medium\_timer\_indicator>  
  <sv\_old\_sp\_medium\_timer\_indicator>~~true~~1</sv\_old\_sp\_medium\_timer\_indicator>
* 5.6.44.2 SvNewSpCreateNotification XML Example:  
  <sv\_old\_sp\_authorization>~~true~~1</sv\_old\_sp\_authorization>
* 5.6.45.2 SvNewSpFinalCreateWindowExpirationNotification XML Example:  
  <sv\_old\_sp\_authorization>~~true~~1</sv\_old\_sp\_authorization>
* 5.6.46.2 SvObjectCreationNotification XML Example:  
  <sv\_old\_sp\_authorization>~~true~~1</sv\_old\_sp\_authorization>  
  <sv\_new\_sp\_medium\_timer\_indicator>~~true~~1</sv\_new\_sp\_medium\_timer\_indicator>  
  <sv\_old\_sp\_medium\_timer\_indicator>~~true~~1</sv\_old\_sp\_medium\_timer\_indicator>
* 5.6.49.2 SvQueryReply XML Example  
  <sv\_old\_sp\_authorization>~~true~~1</sv\_old\_sp\_authorization>  
  <sv\_porting\_to\_original\_sp\_switch> ~~true~~1</sv\_porting\_to\_original\_sp\_switch>  
  <sv\_new\_sp\_medium\_timer\_indicator>~~true~~1</sv\_new\_sp\_medium\_timer\_indicator>  
  <sv\_old\_sp\_medium\_timer\_indicator>~~true~~1</sv\_old\_sp\_medium\_timer\_indicator>

In Section 5.8 on NPAC to LSMS Interface Messages, the following sections that depict example XML interface messages from NPAC to LSMS that contain one or more boolean attributse with a value of ‘false’ or ‘true’, the value of the boolean attributes will be changed to ‘0’ or ‘1’.

* 5.8.19.2 NpbQueryReply XML Example: <block\_soa\_origination>~~true~~1</block\_soa\_origination>
* 5.8.30.2 SvQueryReply XML Example  
  <sv\_old\_sp\_authorization>~~true~~1</sv\_old\_sp\_authorization>  
  <sv\_porting\_to\_original\_sp\_switch> ~~true~~1</sv\_porting\_to\_original\_sp\_switch>  
  <sv\_new\_sp\_medium\_timer\_indicator>~~true~~1</sv\_new\_sp\_medium\_timer\_indicator>  
  <sv\_old\_sp\_medium\_timer\_indicator>~~true~~1</sv\_old\_sp\_medium\_timer\_indicator>