**Origination Date:** 07/27/17

**Originator:** iconectiv

### Change Order Number: NANC 502

**Description:** XML Optional Data Validation

**Functional Backwards Compatible:** Yes

**IMPACT/CHANGE ASSESSMENT**

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

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

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

**Business Need**

As part of the transition of LNPA Services, Vendors of local CMIP SOA and LSMS systems need to certify their local systems with the iconectiv NPAC. During certification testing of some local systems, it was discovered that these systems were not conforming to the Optional Data XML XSD when modifying an Optional Data field to have no value or when replying to an NPAC query with Optional Data XML fields that had no value. The Optional Data XSD indicates using the nillable attribute of elements (fields) should be used for this purpose, which some local systems were not using and caused requests to fail. A resolution to this issue is needed so that CMIP local system messages to the iconectiv NPAC will not fail validations.

**Description of Change:**

Changes detailed below.

Requirements:

**IIS changes:**

Section 4.9 of the IIS on Rules for Handling Optional Data:

Information is provided on how the NPAC handles the XML string as well as how providers system should deal with Activate and Modify downloads that contain XML optionalData strings. Disconnects are not covered here because they don’t contain XML strings. Support for empty attribute values beyond the Optional Data XSD specification (i.e, the nillable attribute) will be accommodated to support current industry implementation. Note: however, at some future date, support for this accommodation may be removed given it conflicts with the XSD specification regarding the implementation of the XML string for Optional Data.

* Activate - String contains only those fields supported by the provider and specified in the create request.
	+ Provider systems should store the fields specified in the message.
* Modify - String contains only those fields supported by the provider and were modified in the modify request.
	+ If the modify removed a value from an optional field, it is included in the string with a value of nil or the attribute value is empty.
	+ Provider systems should modify only the fields specified in the message. Any other optional fields should be retained.
* Audit - String is included only if there was at least one discrepancy in the fields supported by the provider.
	+ Only the OptionalData attribute/parameters supported by an LSMS are audited. If a supported field has no value and is returned by the LSMS, it may be included in the string with a value of nil or with an empty attribute value.
	+ Only the OptionalData attribute/parameters supported by the auditing SOA are returned to the SOA in the discrepancy notifications.

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