**Origination Date:** 06/05/18

**Originator:** iconectiv

### Change Order Number: NANC 527

**Description:** Modify SV AVC Notification

**Functional Backwards Compatible:** Yes

**IMPACT/CHANGE ASSESSMENT**

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

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

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

**Business Need**

Based on various references in NPAC SMS requirements and specification documentation, the iconectiv NPAC does not send attributes in AVC notifications associated with SV modify requests when the attributes in the modify requests are not changing from the same attributes on the SV. When some Service Providers issue Modify requests to Modify Pending SVs at NPAC, their SOAs and Backend systems expect attribute value change (AVC) notifications associated with the modify requests if the due date, old SP authorization, or medium timer indicator is in the modify request, regardless if those attributes are being modified on the SV. See PIM 113.

**Description of Change:**

**FRS changes**:

Update the FRS requirements in **Section 5.1.2.2.2** on **Subscription Version Modification** concerning sending notifications when a pending SV is modified.

**R5‑31.3**             **Modify Subscription Version - Successful Modification Notification**

NPAC SMS shall send an appropriate message to the old Service Provider (LSPP Ports) and new Service Providers (LISP and LSPP ports) upon successful modification of a Subscription Version.

Note: Whenever a New SP Due Date, Old SP Due Date, Old SP Authorization, and/or Medium Timer Indicator appears in a successful Subscription Version Modify request for Pending or Conflict subscription versions, the appropriate Subscription versions shall be modified and an Attribute Value Change (AVC) notification shall be generated for the modify request that contains the specified attributes. If the Timer Type and Business Hour Type does not change as a result of the SV Modify request, the Timer Type and Business Hour Type will not appear in the AVC notification.

Note:  Pending Subscription Version notifications for pseudo-LRN are only sent if the NPAC Customer SOA Pseudo-LRN Indicator is set to TRUE and the NPAC Customer SOA Pseudo-LRN Notification Indicator is set to TRUE.

**GDMO Changes**:

Changes to the behavior of the **LNP NPAC Subscription Version Managed Object Class:**

[snip]

 Attribute value change notifications will be sent to both service

 provider SOAs when the following attribute values appear in a modify

 request and/or change for a pending, cancel-pending, or conflict

 subscription versions (AVCs are not sent for modify active

 subscription versions). Also when the NPAC automatically

 sets a subscription version from cancel-pending to conflict upon

 expiration of the appropriate timers:

 subscriptionNewSP-DueDate

 subscriptionNewSP-CreationTimeStamp

 subscriptionOldSP-DueDate

 subscriptionOldSP-Authorization

 subscriptionOldSP-AuthorizationTimeStamp

 subscriptionStatusChangeCauseCode

 subscriptionVersionStatus

[snip]

**IIS Changes:**

Changes to **Exhibit 11. The Notification Interface Functionality Table**

[snip]

|  |  |
| --- | --- |
| subscriptionVersionRangeAttributeValueChange | This notification or the Attribute Value Change notification is sent when specified attributes appear in a modify request or have been updated. This notification is issued via the SOA to NPAC SMS interface. The NPAC SMS sends the appropriate notification depending upon the Service Provider's TN Range Notification Indicator. |

**Changes to EFD:**

Update Step 3 of **Flow B.5.2.3** **SubscriptionVersion Modify Prior to Activate Using M-ACTION** and Step 3 of **Flow B.5.2.3 SubscriptionVersion Modify Prior to Activate Using M-SET**

1. NPAC SMS issues, depending upon the old service provider’s TN Range Notification Indicator, an attributeValueChange or subscriptionVersionRangeAttributeValueChange M-EVENT-REPORT to the old service provider SOA. If the subscriptionVersionStatus was set to conflict, include the subscriptionConflictTimeStamp attribute in the broadcast. Attribute value change notifications will be sent to both service provider SOAs when the following attribute values appear in the SV modify request and/or change for a pending, cancel-pending, conflict, or disconnect-pending subscription version:
 - subscriptionNewSP-DueDate
 ~~- subscriptionNewSP-CreationTimeStamp~~
 - subscriptionOldSP-Authorization
 - subscriptionOldSP-AuthorizationTimeStamp
 - subscriptionStatusChangeCauseCode
- subscriptionTimerType – if supported by the Service Provider SOA
- subscriptionBusinessType – if supported by the Service Provider SOA
- subscriptionOldSPMediumTimerIndicator – if supported by the Service Provider SOA
- subscriptionNewSPMediumTimerIndicator – if supported by the Service Provider SOA

In the event the modification request results in a change of status the NPAC SMS will send, depending upon the old service provider’s TN Range Notification Indicator, a statusAttributeValueChange or a subscriptionVersionRangeStatusAttributeValueChange which includes the subscriptionVersionStatus to the old service provider SOA. In the event the modification request results in a change of the status change cause code, that value will be included as well. For the XML interface, VATN – SvAttributeValueChangeNotification.

**Changes to the XIS:**

[snip]

**Section 5.6.41 SvAttributeValueChangeNotification**

This message is a notification to a SOA that certain attribute values of an SV have appeared in a modify request and/or have been changed.

[snip]