Change Order Number: NANC 204

IMPACT/CHANGE ASSESSMENT

FRS	IIS	ASN.1	GDMO	1.	SOA	LSMS
Y	Y	Y	Y	Y	Y	N

Inter Service Provider Communication Process

Subscriber Name, Address, City, State, Zip have been requested as information to be exchanged between old and new SP's when creating a pending port. This information originates from the new service provider only. This data would not remain in the NPAC SMS after the port has been activated or cancelled. Data would be needed in the Create Subscription Version Initial Concurrence Window (T1 Timer), Create Subscription Version Final Concurrence Window (T2 Timer), and object creation notifications to service providers that support Inter Service Provider processing. It is believed at this time that the address information definition in the NANC IIS for the NPAC SMS customer contact data is sufficient for wireless use. The current definition is as follows:

Field	Size/Type
Name	40 character
Address Line 1	40 character
Address Line 2	40 character
City	20 character
State	2 character
Zip	9 character
Country	20 character
Province	2 character

NOTE: The NPAC Vendor must provide performance impact information for this change order at the time of sizing.

NOTE: Existing range capability for subscription version creation is supported for the Inter Service Provider Communication Processing. In a range create, one value is supplied for all TNs in the range. Therefore, only one subscriber name and address can be specified for a range create.

Process Flow

The process flow for "Subscriber Name and Address Mismatch" is shown on the diagram on the next page.

FRS Requirements

Key points for requirements written below are as follows:

1. Only the new Service Provider can specify subscriber name and address on a create message.
2. Only the new Service Provider can modify the subscriber name and address prior to concurrence by the old Service Provider. An attribute value change notification will be emitted to the old and new service provider when the subscriber name and address is modified.

3. The subscriber name and address can only be queried (or read) by the old and new service provider prior to activation or approximately two days (between ~~48 and 72~~the subscriber name and address cancellation tunable and the subscriber name and address cancellation tunable + one days ~~hours~~, depending on the time of execution of the cancellation purge job on the NPAC SMS and the time the subscription was cancelled) after cancellation of the subscription version (i.e., when the subscription version is in a "pending" state). This data will not be present on the subscription version after activation or approximately two days after cancellation (once the cancellation purge job is executed on the NPAC SMS).

4. For backward compatibility, the Service Provider profile will have to have an indicator on whether or not the service provider, as the old service provider, supports receipt of subscriber name and address.
5. If the old service provider does not support receipt of subscriber name and address in the subscription version create from, the NPAC SMS will reject the new service provider subscription version create containing subscriber name and address.
6. If an old Service Provider supports subscriber name and address then the data would be present on the initial object creation notification sent to the old service provider if the new service provider provided subscriber name and address.
7. If an old Service Provider supports subscriber name and address then the data would be present on the T1 notification (i.e. the first request for concurrence) sent to the old service provider if the new service provider provided subscriber name and address.
8. If an old Service Provider supports subscriber name and address then the data would be present on the T2 notification (i.e. the final request for concurrence) sent to the old service provider if the new service provider provided subscriber name and address
9. If the old Service Provider does not agree with the subscriber name and address specified by the new Service Provider then they can send a subscription version cancellation for FOC/LSR mismatch. This would cause the subscription version to be cancelled and a cause code to be set as specified by the old service provider.
10. The only cause codes that can be sent with a subscription version cancellation for FOC/LSR mismatch are cause codes specifically defined for that purpose. These FOC/LSR mismatch cause codes can not be used in existing conflict processing and vise versa.

11. Existing conflict processing can occur at any point for a subscription version with subscriber name and address specified.

Inter-Service Provider Processing for Subscriber name and address Mismatch

The following is a process flow for subscriber name and address mismatch were data provided by the new service provider is not as expected by the old service provider.

1. The new service provider creates a subscription version with subscriber name and address specified.
2. The old service provider determines that the subscriber name and address does not match what is expected and proceeds to step 3 or step 6 otherwise proceed to step 9.
3. The old service provider may contact the new service provider to have them modify the subscriber name and address.
4. The New Service Provider may modify the subscriber name and address. If the subscriber name and address is modified an attribute value change notification is sent to for the subscriber name and address.
5. If the old service provider is satisfied proceed to step 9 or if the modification did not occur or the old service provider is not satisfied the old service provider could proceed to step 3 or step 6.
6. The old service provider cancels the subscription version for subscription version name and address mismatch specifying a cause code such as “address mismatch”.

7. The new service provider may contact the old service provider to discuss the conflict before issuing another subscription version create for the TN that was cancelled.
8. The old service provider may optionally contact the new service provider after cancellation of the subscription version for subscription version name and address mismatch.
9. Porting can proceed as usual with a new subscription version if cancellation has occurred or with the existing subscription version.

Requirement 1 – Input of Subscription Version Subscriber name and address

NPAC SMS shall support the input of subscription version subscriber name and address used for inter-service provider communication only from the new service provider.

Requirement 2.1 – Modification of Subscription Version Subscriber name and address

NPAC SMS shall support the modification of subscription version subscriber name and address used for inter-service provider communication only by the new service provider prior to old service provider concurrence.

Requirement 2.2 – Modification of Subscription Version Subscriber name and address – Error

NPAC SMS shall reject with an error code a modification of a subscription version subscriber name and address used for inter-service provider communication by the new service provider after old service provider concurrence.

Requirement 2.3 – Modification of Subscription Version Subscriber name and address – Service Provider Notification

NPAC SMS shall send the subscription version subscriber name and address to the old and new service provider supporting inter-service provider communication in the attribute value change notification that occurs when the new service provider modifies the subscriber name and address.

Requirement 3 – Query Support of Subscription Version Subscriber name and address

NPAC SMS shall support the query by the old and new service provider of subscription version subscriber name and address used for inter-service provider communication prior to subscription version activation or after the Subscriber Name and Address Cancellation Availability tunable. ~~expires (between 48 and 72 hours, depending on the time of execution of the cancellation purge job on the NPAC SMS and the time the subscription was cancelled). Note: The subscription version subscriber name and address can not be queried after activation or approximately two days after cancellation.~~

Requirement 3.1 - Subscriber Name and Address Cancellation Availability – Tunable Parameter

NPAC SMS shall support a Subscriber Name and Address Cancellation Availability Tunable, which defines the number of days after subscription version cancellation that the subscriber name and address will be available for query by the old or new service provider.

Requirement 3.2 - Subscriber Name and Address Cancellation Availability – Tunable Parameter

NPAC SMS shall support a valid value range of 1~~0~~ to 90 days for Subscriber Name and Address Cancellation Availability Tunable.

Requirement 3.3 - Subscriber Name and Address Cancellation Availability - Tunable Parameter Modification

NPAC SMS shall allow the NPAC SMS Administrator to modify the Subscriber Name and Address Cancellation tunable parameter.

Requirement 3.4 Subscriber Name and Address Cancellation Availability - Tunable Parameter Default

NPAC SMS shall default the Subscriber Name and Address Cancellation tunable parameter to 2 days.

Assumption 1 – Time of Availability of Subscriber Name and Address after Cancellation

~~Note:~~ The subscriber name and address information will be available between ~~48~~ the Subscriber Name and Address Cancellation Availability and the Subscriber Name and Address Cancellation Availability + 1 days~~72 hours~~, depending on the time of execution of the cancellation purge job on the NPAC SMS and the time the subscription was cancelled. For the Subscriber Name and Address Cancellation Availability default value of 2 the information would be available for 48 to 72 hours.

Assumption 2~~1~~ – Unique Wireless and Wireline Service Provider Ids.

Service providers supporting wireless porting will have unique wireless and wireline Service Provider Ids. One service provider id can not support both wireless and wireline porting activity if wireless and wireline support for FOC/LSR is different.

Requirement 4 – Service Provider Profile – Subscriber name and address Acceptance Indicator

NPAC SMS shall support an indicator in the service provider profile as to whether or not the service provider, as the old service provider, supports the receipt over the SOA to NPAC SMS interface of subscription version subscriber name and address for inter-service provider communication.

Requirement 5 – Service Provider Profile - Subscriber name and address Acceptance Indicator Default

NPAC SMS shall default to false (not supported) the indicator in the service provider profile as to whether or not the service provider, as the old service provider, supports the receipt over the SOA to NPAC SMS interface of subscription version subscriber name and address for inter-service provider communication.

Requirement 6 – Subscriber name and address in Old Service provider Creation Notification

NPAC SMS shall send the subscription version subscriber name and address to the old service provider supporting inter-service provider communication in the creation notice sent upon initial subscription version creation

Requirement 7 – Subscriber name and address in Old Service Provider Initial Concurrence Notification

NPAC SMS shall send the subscription version subscriber name and address to the old service provider supporting inter-service provider communication in the notification that occurs when the initial concurrence window expires.

Requirement 8 – Subscriber name and address in Old Service Provider Final Concurrence Notification

NPAC SMS shall send the subscription version subscriber name and address to the old service provider supporting inter-service provider communication in the notification that occurs when the final concurrence window expires.

Requirement 9 – Rejection of New Service Provider Create for Subscriber name and address

NPAC SMS shall reject with an error code the subscription version create message from the new service provider containing subscriber name and address if the old service provider does not support inter-service provider communication.

Requirement 10 – Cancellation of Pending Subscription for Subscriber name and address

NPAC SMS shall allow the old service provider to cancel a pending subscription version for a subscriber name and address mismatch if they have not concurred to the subscription version containing subscriber name and address.

Note: Cancellation can occur for other reasons using the existing cancellation processes.

Requirement 11 – Cancellation of Pending Subscription for Subscriber name and address - Setting of the Cause Code

NPAC SMS shall allow upon cancellation of a pending subscription version that contains subscriber name and address that the old service provider does not concur with set the cause to the value specified by the old service provider and set the subscription version status to cancel.

Requirement 12 - SOA to NPAC SMS Cancellation of Pending Subscription Version Subscriber Name and Address Mismatch via an NPAC SOA Low-tech Interface

NPAC SMS shall support cancellation of Subscription Versions by the old service provider for subscriber name and address mismatch via a secure, NPAC SOA Low-tech Interface.

Section 3 Modifications

In the subscription version data model in section 3, a new cause code value will be added as follows:

The following cause codes can only be used for Cancellation of a subscription version that contains subscriber name and address that the old service provider does not concur with. These cause codes are only valid for this type of cancellation and can not be used for any other processing.

Name Mismatch - 80
Address Mismatch - 81
Name and Address Mismatch - 82

The service provider profile would be updated in Table 3-2 as follows to add:

Subscriber Name and Address Acceptance Indicator	B	√	A Boolean that indicates whether the Service Provider supports the Subscriber Name and Address data during the Subscription Version Create. The value will be set to true if a service provider supports the Subscriber Name and Address data functionality. The default value is False.

IIS Modifications

The table in Appendix A "Errors" of the IIS, exhibit 18, would have the following added.

accessDenied	Subscription Version Management	subscriptionNameAndAddress attribute has been specified by the new service provider when the old service provider does not support subscriber name and address information.
accessDenied	Subscription Version Management	The new service provider attempts to modify the subscription name and address after the old service provider has concurred to the subscription version port.

GDMO Modifications

```
-- -- 8.0 LNP Log Record for the Subscription Version Old SP Concurrence
Request
--     Notification

lnpLogOldSP-ConcurrenceRequestRecord MANAGED OBJECT CLASS
    DERIVED FROM "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2 :
1992":eventLogRecord;
    CHARACTERIZED BY
```

```
        lnpLogOldSP-ConcurrenceRequestPkg;
    CONDITIONAL PACKAGES
    subscriptionNameAndAddressPkg PRESENT IF
        !the new service provider has provided subscriber name and address!;
    REGISTERED AS {LNP-OIDS.lnp-objectClass 8};

lnpLogOldSP-ConcurrenceRequestPkg PACKAGE
    BEHAVIOUR
        lnpLogOldSP-ConcurrenceRequestDefinition,
        lnpLogOldSP-ConcurrenceRequestBehavior;
    ATTRIBUTES
        subscriptionTN GET,
        subscriptionVersionId GET,
        subscriptionNewCurrentSP GET,
        subscriptionNewSP-DueDate GET,
        subscriptionNewSP-CreationTimeStamp GET,
        accessControl GET;
    ;

lnpLogOldSP-ConcurrenceRequestDefinition BEHAVIOUR
    DEFINED AS !
        The lnpLogOldSP-ConcurrenceRequestRecord class is the managed
        object that is used to create log records for the
        subscriptionVersionOldSP-ConcurrenceRequest Notification.
    !;

lnpLogOldSP-ConcurrenceRequestBehavior BEHAVIOUR
    DEFINED AS !
        This log record can be used by any CME wanting to log the
        subscriptionVersionOldSP-ConcurrenceRequest Notification.
    !;
-- 21.0 LNP NPAC Subscription Version Managed Object Class

subscriptionVersionNPAC MANAGED OBJECT CLASS
    DERIVED FROM subscriptionVersion;
    CHARACTERIZED BY
        subscriptionVersionNPAC-Pkg;
    CONDITIONAL PACKAGES
    subscriptionNameAndAddressPkg PRESENT IF
        !the new service provider has provided subscriber name and address and
         the subscription version has not yet been activated or is after the
         Subscriber Name and Address Cancellation Availability
         tunable expires!;
    REGISTERED AS {LNP-OIDS.lnp-objectClass 21};

subscriptionVersionNPAC-Pkg PACKAGE
    BEHAVIOUR
        subscriptionVersionNPAC-Definition,
        subscriptionVersionNPAC-Behavior;
    ATTRIBUTES
        subscriptionVersionStatus GET-REPLACE,
        subscriptionOldSP GET-REPLACE,
        subscriptionNewSP-DueDate GET-REPLACE,
        subscriptionNewSP-CreationTimeStamp GET-REPLACE,
        subscriptionOldSP-DueDate GET-REPLACE,
        subscriptionOldSP-Authorization GET-REPLACE,
        subscriptionStatusChangeCauseCode GET-REPLACE,
        subscriptionOldSP-AuthorizationTimeStamp GET-REPLACE,
        subscriptionBroadcastTimeStamp GET-REPLACE,
        subscriptionConflictTimeStamp GET-REPLACE,
        subscriptionCustomerDisconnectDate GET-REPLACE,
        subscriptionEffectiveReleaseDate GET-REPLACE,
        subscriptionDisconnectCompleteTimeStamp GET-REPLACE,
```

```
        subscriptionCancellationTimeStamp GET-REPLACE,
        subscriptionCreationTimeStamp GET-REPLACE,
        subscriptionFailed-SP-List GET-REPLACE,
        subscriptionModifiedTimeStamp GET-REPLACE,
        subscriptionOldTimeStamp GET-REPLACE,
        subscriptionOldSP-CancellationTimeStamp GET-REPLACE,
        subscriptionNewSP-CancellationTimeStamp GET-REPLACE,
        subscriptionOldSP-ConflictResolutionTimeStamp GET-REPLACE,
        subscriptionNewSP-ConflictResolutionTimeStamp GET-REPLACE,
        subscriptionPortingToOriginal-SPSwitch GET-REPLACE,
        subscriptionPreCancellationStatus GET-REPLACE;

    NOTIFICATIONS
        subscriptionVersionOldSP-ConcurrenceRequest,
        subscriptionVersionNewSP-CreateRequest,
        subscriptionVersionOldSPFinalConcurrenceWindowExpiration,
        subscriptionVersionNewNPA-NXX,
        subscriptionVersionCancellationAcknowledgeRequest,
        subscriptionVersionDonorSP-CustomerDisconnectDate,
        subscriptionVersionStatusAttributeValueChange,
        "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2 :
1992":attributeValueChange
            accessControlParameter,
        "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2 : 1992":objectCreation
            accessControlParameter;
    ;

subscriptionVersionNPAC-Definition BEHAVIOUR
    DEFINED AS !
        The subscriptionVersionNPAC class is the managed object
        that represents a subscription version on the NPAC SMS.
    !;
…

-- 26.0 LNP Log Record for the Subscription Version Final Concurrence
-- Timer Expiration

lnpLogOldSPFinalConcurrenceWindowExpirationRecord MANAGED OBJECT CLASS
    DERIVED FROM "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2 :
1992":eventLogRecord;
    CHARACTERIZED BY
        lnpLogOldSPFinalConcurrenceWindowExpirationPkg;
    CONDITIONAL PACKAGES
    subscriptionNameAndAddressPkg PRESENT IF
        !the new service provider has provided subscriber name and address!;
    REGISTERED AS {LNP-OIDS.lnp-objectClass 26};

lnpLogOldSPFinalConcurrenceWindowExpirationPkg PACKAGE
    BEHAVIOUR
        lnpLogOldSPFinalConcurrenceWindowExpirationDefinition,
        lnpLogOldSPFinalConcurrenceWindowExpirationBehavior;
    ATTRIBUTES
        subscriptionTN GET,
        subscriptionVersionId GET,
        accessControl GET;
    ;

lnpLogOldSPFinalConcurrenceWindowExpirationDefinition BEHAVIOUR
    DEFINED AS !
        The lnpLogOldSPFinalConcurrenceWindowExpirationRecord class is
        the managed object that is used to create log records for the
        subscriptionVersionOldSPFinalConcurrenceWindowExpiration
        Notification.
    !;
```

```
lnpLogOldSPFinalConcurrenceWindowExpirationBehavior BEHAVIOUR
    DEFINED AS !
        This log record can be used by any CME wanting to log the
        subscriptionVersionOldSPFinalConcurrenceWindowExpiration
        Notification.
    !;


-- ??.0 LNP Subscription Subscriber name and address Package

subscriptionNameAndAddressPkg PACKAGE
    BEHAVIOUR subscriptionNameAndAddressPkgBehavior;
    ATTRIBUTES
        subscriptionNameAndAddress GET-REPLACE;
    REGISTERED AS {LNP-OIDS.lnp-package ??};

subscriptionNameAndAddressPkgBehavior BEHAVIOUR
    DEFINED AS !
        This package provides for conditionally including the
        subscriptionNameAndAddress attribute.
    !;

-- ??.0 LNP Subscription Version Subscriber name and address

subscriptionNameAndAddress ATTRIBUTE
    WITH ATTRIBUTE SYNTAX LNP-ASN1.AddressInformation;
    MATCHES FOR EQUALITY;
    BEHAVIOUR subscriptionNameAndAddressBehavior;
    REGISTERED AS {LNP-OIDS.lnp-attribute ??};

subscriptionNameAndAddressBehavior BEHAVIOUR
    DEFINED AS !
        This attribute is used to specify the subscriber name and address
        information
        for inter-service provider communication.
!;

7.0 LNP Subscription Version Modify Action
…
 subscriptionVersionModifyBehavior BEHAVIOUR
     DEFINED AS !
         Preconditions: This action is issued from an lnpSubscriptions
         object specifying the object to be modified by either
         the subscriptionVersionId, the subscriptionTN or a range of TNs and
         optionally the status of the subscription version.  All attribute
         values to be modified shall also be specified.

         Postconditions: The service provider has modified the subscription
         version.  An error will be returned to the service provider if
         there is no version that is modifiable or if the modification fails
         due to authorization of the service provider or data validation.

         Service Providers can modify attributes associated with active,
         pending or conflict subscription versions.

         Old service providers can only modify the following attributes
         for pending, cancel-pending, or conflict subscription versions:

         subscriptionOldSP-DueDate
         subscriptionOldSP-Authorization
         subscriptionStatusChangeCauseCode

         The subscriptionStatusChangeCauseCode is an optional field and is
```

only specified if the subscriptionOldSP-Authorization is false.

New service providers can only modify the following attributes
for pending, cancel-pending, or conflict subscription versions:

subscriptionLRN
subscriptionNewSP-DueDate
subscriptionCLASS-DPC
subscriptionCLASS-SSN
subscriptionLIDB-DPC
subscriptionLIDB-SSN
subscriptionCNAM-DPC
subscriptionCNAM-SSN
subscriptionISVM-DPC
subscriptionISVM-SSN
subscriptionEndUserLocationValue
subscriptionEndUserLocationType
subscriptionBillingId
subscriptionNameAndAddress

Validation will be done for both old and new service provider
data that is specified for pending, cancel-pending, or conflict
subscription versions.

If validation fails no changes will be made and an error
will be returned. If validation passes, the version will be
modified and remain in a pending or active state.

New service providers can only modify the following attributes
for active subscription versions:

subscriptionLRN
subscriptionCLASS-DPC
subscriptionCLASS-SSN
subscriptionLIDB-DPC
subscriptionLIDB-SSN
subscriptionCNAM-DPC
subscriptionCNAM-SSN
subscriptionISVM-DPC
subscriptionISVM-SSN
subscriptionEndUserLocationValue
subscriptionEndUserLocationType
subscriptionBillingId

If the data specified passes validation, the modified version
is immediately activated. The modified subscription version will have
a status of sending and broadcasts will begin. If validation fails,
no changes will be made and an error will be returned in the action
reply.

**The subscriptionNameAndAddress field would only be modifiable in
requests that are initiated by the new service providers prior to
old service provider concurrence or subscription version activation
or cancellation.**

!;

-- 10.0 LNP Subscription Version Old SP Concurrence Request Notification

subscriptionVersionOldSP-ConcurrenceRequest NOTIFICATION
BEHAVIOUR subscriptionVersionOldSP-ConcurrenceRequestBehavior;
WITH INFORMATION SYNTAX LNP-ASN1.VersionOldSP-ConcurrenceRequest
AND ATTRIBUTE IDS

```
        tn subscriptionTN,
        version-id subscriptionVersionId,
        service-prov-id subscriptionNewCurrentSP,
        service-prov-due-date subscriptionNewSP-DueDate,
        service-prov-authorization-creation-time-stamp
            subscriptionNewSP-CreationTimeStamp,
        access-control accessControl,
        subscription-~~-subscriber-~~name-address subscriptionNameAndAddress;
REGISTERED AS {LNP-OIDS.lnp-notification 10};

subscriptionVersionOldSP-ConcurrenceRequestBehavior BEHAVIOUR
    DEFINED AS !
        This notification requests that a old service provider send
        a create request for a subscription version for which
        concurrence for porting the number has not been received.
        The TN, the version id, and the new service provider id,
        authorization flag and creation timestamp values are sent. If
        the old service provider supports Inter Service Provider
        communication processing, subscriber name and address information ~~will~~
        will be sent.
    !;

-- 12.0 LNP Subscription Version Final Concurrence Timer Expiration
--      Notification

subscriptionVersionOldSPFinalConcurrenceWindowExpiration NOTIFICATION
    BEHAVIOUR
subscriptionVersionOldSPFinalConcurrenceWindowExpirationBehavior;
    WITH INFORMATION SYNTAX
        LNP-ASN1.VersionOldSPFinalConcurrenceWindowExpiration
    AND ATTRIBUTE IDS
        tn subscriptionTN,
        version-id subscriptionVersionId,
        access-control accessControl,
        subscription-~~subscriber-~~name-address subscriptionNameAndAddress;
    REGISTERED AS {LNP-OIDS.lnp-notification 12};

subscriptionVersionOldSPFinalConcurrenceWindowExpirationBehavior BEHAVIOUR
    DEFINED AS !
        This notification will be sent by the NPAC SMS upon expiration of
        the Final Concurrence Timer to the old service provider via the SOA
        to NPAC SMS interface to inform them of the timer expiration. If
        the old service provider supports Inter Service Provider communication
        processing, subscriber name and address information will be sent.
    !;

-- ??.0 LNP Subscription Version Subscriber Name and Address Cancel Action

subscriptionVersionSubscriberNameAndAddressCancel ACTION
    BEHAVIOUR
        subscriptionVersionSubscriberNameAndAddressCancelDefinition,
        subscriptionVersionSubscriberNameAndAddressCancelBehavior;
    MODE CONFIRMED;
    WITH INFORMATION SYNTAX LNP-ASN1.SubscriberNameAndAddressCancelAction;
    WITH REPLY SYNTAX LNP-ASN1.CancelReply;
    REGISTERED AS {LNP-OIDS.lnp-action 4};

subscriptionVersionSubscriberNameAndAddressCancelDefinition BEHAVIOUR
    DEFINED AS !
        The subscriptionVersionSubscriberNameAndAddressCancel action is
        the action that can be used by the old service provider SOA
        to cancel a subscription version via the SOA to NPAC SMS
        interface for subscriber name and address mismatch.
    !;
```

```
subscriptionVersionSubscriberNameAndAddressCancelBehavior BEHAVIOUR
    DEFINED AS !
        Preconditions: This action is issued from an lnpSubscriptions
        object specifying the object or objects to be canceled by either
        the subscriptionVersionId, the subscriptionTN or a range of TNs
        and the cause code for cancellation.  Note: Only cause codes
        specified as valid for this action can be used.  Valid
        values are as follows:

        Name Mismatch     - 80
        Address Mismatch  - 81
        Name and Address Mismatch - 82

        The subscription version(s) must be in a pending state, subscriber
        name and address must have been specified by the new service
        provider, and the old service provider must not have concurred.

        This action can only be sent by the old service provider.

        Postconditions: The NPAC SMS has set the version status
        to cancel in the subscription version and the cause code is
        set to as specified by the old service provider.  An error
        will be returned to the service provider if there
        is no version that can be canceled or if the cancellation
        fails due to authorization of the service provider.
    !;
```

```
11.0 LNP New Service Provider Subscription Version Create

subscriptionVersionNewSP-Create ACTION
    BEHAVIOUR
        subscriptionVersionNewSP-CreateDefinition,
        subscriptionVersionNewSP-CreateBehavior;
    MODE CONFIRMED;
    WITH INFORMATION SYNTAX LNP-ASN1.NewSP-CreateAction;
    WITH REPLY SYNTAX LNP-ASN1.NewSP-CreateReply;
    REGISTERED AS {LNP-OIDS.lnp-action 11};

subscriptionVersionNewSP-CreateDefinition BEHAVIOUR
    DEFINED AS !
        The subscriptionVersionNewSP-Create action is the action that is
        used the on NPAC SMS via the SOA to NPAC SMS interface by the
        new service provider to create a new subscriptionVersionNPAC.
    !;

subscriptionVersionNewSP-CreateBehavior BEHAVIOUR
    DEFINED AS !
        Preconditions: This action is issued from an lnpSubscriptions
        object.  Creates can only be performed provided there is only one
        currently active subscription or no subscription version in the
        NPAC or an action failure will be returned.

        The new service provider must specify valid values for the
        following attributes:

        subscriptionTN or a valid subscriptionVersionTN-Range
        subscriptionLRN
        subscriptionNewCurrentSP
        subscriptionOldSP
        subscriptionNewSP-DueDate
        subscriptionCLASS-DPC
        subscriptionCLASS-SSN
        subscriptionLIDB-DPC
```

subscriptionLIDB-SSN
subscriptionCNAM-DPC
subscriptionCNAM-SSN
subscriptionISVM-DPC
subscriptionISVM-SSN
subscriptionLNPType
subscriptionPortingToOriginal-SPSwitch
subscriptionNameandAddress

The new service provider may specify valid values for the following attributes:

subscriptionEndUserLocationValue
subscriptionEndUserLocationType
subscriptionBillingId

subscriptionPortingToOriginal-SPSwitch can only be specified as TRUE for a TN that is currently ported and is being ported back to the original service provider. If the value of subscriptionPortingToOriginal-SPSwitch is TRUE, the LRN and GTT data should be specified as NULL. If the variable is TRUE, when the activate occurs for the subscription version, the Local SMS's will receive a request to delete the old subscription version routing data in their networks. They will not receive any new network routing data for the subscription. Concurrence from the old service provider is required.

If the port of the subscription version is an intra-service provider port, the new service provider can use the subscriptionVersionNewSP-Create action specifying the old service provider equal to the new service provider. In this case, the old service provider create action is not required.

Postconditions: After this action has been executed, if the data specified passes validation, a pending subscription version will exist in the NPAC SMS. These validations are done as follows:

subscriptionTN or range of TNs are valid in a range open for porting by the old service provider.

subscriptionLNPType is specified to be "LSPP" or "LISP".

subscriptionNewSP-DueDate is a future date. If not specified, the time defaults to 00:00.00.

Old and New SP are valid service providers in the NPAC SMS.

LRN data is associated with the New Service Provider.

If a pre-existing version exists, validation will be done to insure that the new service provider previously specified is the same as the executor of the action.

If the validations succeed and the subscription version does not exist, a new subscription version will be created with a status of pending.

If the validations succeed and the subscription version already exists, the new service provider data will be applied to the subscription version.

If the validations fail, a new subscription version will not be created if one does not exist. If one already existed, it will be retained.

The action success or failure and reasons for failure will be returned in the action reply.
!;

ASN.1 Modifications

```
ModifyAction::= SEQUENCE {
     subscription-version-action [0] EXPLICIT SubscriptionVersionAction,
     version-status [1] VersionStatus OPTIONAL,
     data-to-modify [2] SubscriptionModifyData,
     subscription-subscriber-name-address AddressInformation OPTIONAL
}

 VersionCreateConcurrenceRequest ::= SEQUENCE {
     tn PhoneNumber,
     version-id LnpKey,
     service-prov-id ServiceProvId,
     service-prov-due-date GeneralizedTime,
     service-prov-authorization-creation-time-stamp GeneralizedTime,
     access-control LnpAccessControl,
     subscription-subscriber-name-address AddressInformation OPTIONAL
}


 VersionOldSPFinalConcurrenceWindowExpiration ::= SEQUENCE {
     tn PhoneNumber,
     version-id LnpKey,
     access-control LnpAccessControl,
     subscription-subscriber-name-address AddressInformation OPTIONAL
 }

SubscriberNameAndAddressCancelAction ::= SEQUENCE {
    Subscription-version-TN CHOICE {
        subscription-version-action-key [0] EXPLICIT
            SubscriptionVersionActionKey,
        subscription-version-tn-range [1] TN-Range,
    }
    subscription-version-cause-code [2] SubscriptionStatusChangeCauseCode
}

NewSP-CreateData ::= SEQUENCE {
    chc1 [0] EXPLICIT CHOICE {
        subscription-version-tn [0] PhoneNumber,
        subscription-version-tn-range [1] TN-Range
    },
    subscription-lrn [1] LRN OPTIONAL,
    subscription-new-current-sp [2] ServiceProvId,
    subscription-old-sp [3] ServiceProvId,
    subscription-new-sp-due-date [4] GeneralizedTime,
    subscription-class-dpc [6] EXPLICIT DPC OPTIONAL,
    subscription-class-ssn [7] EXPLICIT SSN OPTIONAL,
    subscription-lidb-dpc [8] EXPLICIT DPC OPTIONAL,
    subscription-lidb-ssn [9] EXPLICIT SSN OPTIONAL,
    subscription-isvm-dpc [10] EXPLICIT DPC OPTIONAL,
    subscription-isvm-ssn [11] EXPLICIT SSN OPTIONAL,
    subscription-cnam-dpc [12] EXPLICIT DPC OPTIONAL,
    subscription-cnam-ssn [13] EXPLICIT SSN OPTIONAL,
    subscription-end-user-location-value [14]
        EndUserLocationValue OPTIONAL,
    subscription-end-user-location-type [15] EndUserLocationType OPTIONAL,
```

```
    subscription-billing-id [16] BillingId OPTIONAL,
    subscription-lnp-type [17] LNPType,
    subscription-porting-to-original-sp-switch [18]
        SubscriptionPortingToOriginal-SPSwitch,
    subscription-name-and-address [19] AddressInformation OPTIONAL
}

NewSP-CreateInvalidData ::= CHOICE {
    subscription-version-tn [0] EXPLICIT PhoneNumber,
    subscription-version-tn-range [1] EXPLICIT TN-Range,
    subscription-lrn [2] EXPLICIT LRN,
    subscription-new-current-sp [3] EXPLICIT ServiceProvId,
    subscription-old-sp [4] EXPLICIT ServiceProvId,
    subscription-new-sp-due-date [5] EXPLICIT GeneralizedTime,
    subscription-class-dpc [6] EXPLICIT DPC,
    subscription-class-ssn [7] EXPLICIT SSN,
    subscription-lidb-dpc [8] EXPLICIT DPC,
    subscription-lidb-ssn [9] EXPLICIT SSN,
    subscription-isvm-dpc [10] EXPLICIT DPC,
    subscription-isvm-ssn [11] EXPLICIT SSN,
    subscription-cnam-dpc [12] EXPLICIT DPC,
    subscription-cnam-ssn [13] EXPLICIT SSN,
    subscription-end-user-location-value [14] EXPLICIT EndUserLocationValue,
    subscription-end-user-location-type [15] EXPLICIT EndUserLocationType,
    subscription-billing-id [16] EXPLICIT BillingId,
    subscription-lnp-type [17] EXPLICIT LNPType,
    subscription-porting-to-original-sp-switch [18]
       EXPLICIT SubscriptionPortingToOriginal-SPSwitch,
    subscription-name-and-address [19] EXPLICIT AddressInformation
}
```