

Wireless Change Order Requirements – 04/13/98

The following wireless change orders are documented in detail below:

NANC 201 - Unique Sets of Timers

NANC 202 - Unique Sets of Business Days/Hours

NANC 203 - Wireless Addition of WSMSC DPC and SSN Information

NANC 204 - Inter Service Provider Communication Process

NANC 205 - Wireless Porting before Due Date

Downtime Required	Yes	No
Recommendation Explanation		

Installation	Staged	Flash Cut
Recommendation Explanation		

Note: This table contains change orders that have been clarifications to previously documented wireless change orders and have been merged in this document as indicated. Merged change orders will not be referenced separately as wireless requirements.

Requirement Retained	Requirement Merged and Removed

Change Order Number: NANC 201

IMPACT/CHANGE ASSESSMENT

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

Unique Sets of Timers

Wireless to wireless porting needs tunable values/timers defined that are independent from wire line tunable values/timers by region. It was discussed that to support the wireless need in a generic manner that a unique set of tunable timers be defined.

Timers to be in the unique timer set would include:

- Create Subscription Version Initial Concurrence Window (T1 Timer)
- Create Subscription Version Final Concurrence Window (T2 Timer)
- Conflict Restriction Window
- Conflict Resolution New Service Provider Restriction
- Cancellation Initial Concurrence Window
- Cancellation Final Concurrence Window

The NPAC should be developed to support 10 different sets. Initially there would be three sets of timers, short – to support wireless, medium – to support compromises, and long – to support existing wire line. The type of timers being used would be an optional parameter on a create message. For backward compatibility long timers would be the default. Also if a Service Provider did not support the different timers the create message would be rejected from the SP indicating timers other than the default of long. The timer specification on the create notification in the optional field would be integer numbers so as to support backwards compatibility in the future should more unique sets need to be supported.

FRS Modifications

1. The following requirements would need to be updated to add the timer type:
 - R4-29 Service Provider subscription query options
 - R5-15.1 Create "Inter-Service Provider Port" Subscription Version - New Service Provider Input Data
 - R5-18.1 Create Subscription Version - Field-level Data Validation
 - RR5-4 Create "Intra-Service Provider Port" Subscription Version - Current Service Provider Input Data
 - RR5-6.1 Create "Intra-Service Provider Port" Subscription Version - Field-level Data Validation
 - R5-74.3 Query Subscription Version - Output Data
 - R5-74.4 Query Subscription Version - Output Data

1. Additional requirements would have to be added to support the timer type validation at subscription version creation.
2. Appendix C would need to be updated to show each group of tunables (the defaults and ranges).
3. Requirements would need to be developed for the new tunables.

Note: Modifications of timer type would not be allowed after initial subscription version create due to the fact that timers would have been created upon creation of the pending subscription version.

GDMO Modifications

1. A conditional Package would need to be added to the subscriptionVersion managed object class.

```
-- 20.0 LNP subscription Version Managed Object Class

subscriptionVersion MANAGED OBJECT CLASS
  DERIVED FROM "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2 :
  1992":top;
  CHARACTERIZED BY
    SubscriptionVersionPkg,
    TimeTypePkg;
  REGISTERED AS {LNP-OIDS.lnp-objectClass 20};
```

2. The following attribute needs to be added to the GDMO:

```
Subscription Version Timer Type

subscriptionTimerType ATTRIBUTE
  WITH ATTRIBUTE SYNTAX LNP-ASN1.Integer;
  MATCHES FOR EQUALITY, ORDERING;
  DEFAULT VALUE LNP-ASN1.LongTimer;
  BEHAVIOUR subscriptionTimerTypeBehavior;
  REGISTERED AS {LNP-OIDS.lnp-attribute 63};

subscriptionTimerTypeBehavior BEHAVIOUR
  DEFINED AS !
    This attribute is used to specify the subscription version
    timer type being used to set tunable timers.
```

Current valid values are:
 0 for long timers (used primarily for wireline to wireline)
 1 for medium timers (anticipated use for wireline to wireless)
 2 for short timers (anticipated use for wireless to wireless)

LongTimers (0) is the default if no value is specified.

!;

3. The following package definition needs to be added:

```
-- Timer Type Package

TimerTypePkg PACKAGE
  BEHAVIOUR TimerTypePkgBehavior;
  ATTRIBUTES
    subscriptionTimerType GET-REPLACE;
  REGISTERED AS {LNP-OIDS.lnp-package ?};

TimerTypePkgBehavior BEHAVIOUR
  DEFINED AS !
    This package provides for conditionally including the
    subscriptionTimerType attribute.
  !;
```

4. The following behavior needs to be modified in the
 subscriptionVerionsNewSP-Create Action

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

subscriptionTimerType - If this attribute is not specified then it is defaulted to 0 (long timers). If it is specified and a service provider does not support variable timers then create message will be rejected unless long timers are specified.

ASN.1 Modifications

```
NewSP-CreateData ::= SEQUENCE {
  chcl [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] LNPTType,
subscription-porting-to-original-sp-switch [18]
    SubscriptionPortingToOriginal-SPSwitch,
subscription-timer-type [19] EXPLICIT INTEGER 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 LNPTType,
    subscription-porting-to-original-sp-switch [18]
    EXPLICIT SubscriptionPortingToOriginal-SPSwitch,
subscription-timer-type [19] EXPLICIT INTEGER
}

```

2. LongTimers ::= INTEGER(0)

Change Order Number: NANC 202

IMPACT/CHANGE ASSESSMENT

FRS	IIS	ASN.1	GDMO	3	SOA	LSMS
Y	Y	Y	Y	Y	Y	

Unique Sets of Business Days/Hours

Business hours need to be defined uniquely for wireless to wireless porting. Saturday must be added and time must also be increased. Default business hours will be 8:00 to 8:00 CT. The tunable is configurable by region. NPAC defined Holiday are OK as defined for wireless to wireless.

It was discussed that to support this change request that a unique set of tunable business hours/days be defined. The NPAC should be developed to support 10 different sets. Initially there would be two sets, short – to support wireless and long – to support existing wire line. The type of business hours/days being used would be an optional parameter on a create message. For backward compatibility long business hours/days would be the default. Also if a Service Provider did not support the different business hour/days the create message would be rejected from the SP indicating business hours/days other than the default of long. The business hour/day specification on the create notification in the optional field would be integer numbers so as to support backwards compatibility in the future should more unique sets need to be supported.

FRS Modifications

1. The following requirements would need to be updated to add the business hours/days type:
 - R4-29 Service Provider subscription query options
 - R5-15.1 Create “Inter-Service Provider Port” Subscription Version - New Service Provider Input Data
 - R5-18.1 Create Subscription Version - Field-level Data Validation
 - RR5-4 Create “Intra-Service Provider Port” Subscription Version - Current Service Provider Input Data
 - RR5-6.1 Create “Intra-Service Provider Port” Subscription Version - Field-level Data Validation
 - R5-74.3 Query Subscription Version - Output Data
 - R5-74.4 Query Subscription Version - Output Data
1. The following additional requirements would have to be added to support the business hours/days type validation at subscription version create.
2. Appendix C would need to be updated to show each group of type of business hour/days (the defaults and ranges).
3. Requirements would need to be developed for the new business hours/days types.

Note: Modifications of timer type would not be allowed after initial subscription version create due to the fact that timers would have been created upon creation of the pending subscription version.

GDMO Modifications

1. A conditional Package would need to be added to the subscriptionVersion managed object class.

```

-- 20.0 LNP subscription Version Managed Object Class

subscriptionVersion MANAGED OBJECT CLASS
  DERIVED FROM "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2 :
1992":top;
  CHARACTERIZED BY
    SubscriptionVersionPkg,
    BusinessTypePkg;
  REGISTERED AS {LNP-OIDS.lnp-objectClass 20};

```

2. The following attribute needs to be added to the GDMO:

Subscription Version Business Type

```

subscriptionBusinessType ATTRIBUTE
  WITH ATTRIBUTE SYNTAX LNP-ASN1.Integer;
  MATCHES FOR EQUALITY, ORDERING;
  DEFAULT VALUE LNP-ASN1.LongBusinessType;
  BEHAVIOUR subscriptionTimerTypeBehavior;
  REGISTERED AS {LNP-OIDS.lnp-attribute 63};

```

subscriptionBusinessTypeBehavior BEHAVIOUR

DEFINED AS !

This attribute is used to specify the subscription version business hours/days type being used to set tunable timers.

Current valid values are:

0 for long business hours/days
 (used primarily for wireline to wireline)
 1 for medium business hours/days
 (anticipated use for wireline to wireless)
 2 for short business hours/days
 (anticipated use for wireless to wireless)

LongBusinessType(0) is the default if no value is specified.

!;

3. The following package definition needs to be added:

-- Business Type Package

```

BusinessTypePkg PACKAGE
  BEHAVIOUR BusinessTypePkgBehavior;
  ATTRIBUTES
    subscriptionBusinessType GET-REPLACE;
  REGISTERED AS {LNP-OIDS.lnp-package ?};

```

BusinessTypePkgBehavior BEHAVIOUR

DEFINED AS !

This package provides for conditionally including the subscriptionBusinessType attribute.

!;

4. The following behavior needs to be modified in the subscriptionVerionsNewSP-Create Action

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

subscriptionBusinessType - If this attribute is not specified then it is defaulted to 0 (long business hours/days). If it is specified and a service provider does not support variable business hours/days then create message will be rejected unless long business hours/days are specified.

ASN.1 Modifications

```
NewSP-CreateData ::= SEQUENCE {
    chcl [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] LNPTType,
    subscription-porting-to-original-sp-switch [18]
        SubscriptionPortingToOriginal-SPSwitch,
    subscription-business-type [19] EXPLICIT INTEGER 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 LNPTType,
    subscription-porting-to-original-sp-switch [18]
    EXPLICIT SubscriptionPortingToOriginal-SPSwitch,
    subscription-business-type [19] EXPLICIT INTEGER
}

```

4. LongBusinessType ::= INTEGER(0)

Change Order Number: NANC 203

IMPACT/CHANGE ASSESSMENT

FRS	IIS	ASN.1	GDMO	5.	SOA	LSMS
Y	Y	Y	Y	Y	Y	Y

Wireless Addition of WSMSC DPC and SSN Information

Wireless Short Message Service Center (WSMSC) needs to be added as a new set of DPC and SSN information that is part of the subscription version received from SOA, stored on the NPAC SMS, and sent to the LSMS for wireless to wireless porting. Validation rules are assumed to be those in place today.

A bit mask in the NPAC SMS could be used to indicate which SOA and LSMS systems support the new fields.

ISSUE: Is the above statement valid? Once wireless porting begins can this routing data just be ignored by SOA and LSMS systems that do not yet support the values?

FRS Modifications

1. The following information is needed in the subscription version data table in section 3.1.3.

WSMSC DPC	N (9)		DPC for 10-digit GTT for WSMSC features.
WSMSC SSN	N (3)		WSMSC SSN for the Subscription Version.

1. Requirement R3-8 should be updated to include the WSMSC DPC and SSN information in the download file. The download data file format in the appendix would also have to be updated.

2. The following requirements would also need to be updated to add the WSMSC DPC and SSN information:
 - R4-29 Service Provider subscription query options
 - R5-15.1 Create "Inter-Service Provider Port" Subscription Version - New Service Provider Input Data
 - R5-18.1 Create Subscription Version - Field-level Data Validation
 - RR5-4 Create "Intra-Service Provider Port" Subscription Version - Current Service Provider Input Data
 - RR5-6.1 Create "Intra-Service Provider Port" Subscription Version - Field-level Data Validation
 - R5-27.1 Modify Subscription Version - New Service Provider Data Values
 - R5-29.1 Modify Subscription Version - Field-level Data Validation
 - R5-36 Modify Active Subscription Version - Input Data
 - R5-38.1 Modify Active Subscription Version - Field-level Data Validation
 - R5-74.3 Query Subscription Version - Output Data
 - R5-74.4 Query Subscription Version - Output Data

GDMO Modifications

1. Conditional Packages would need to be added to the subscriptionVersion managed object class.

-- 20.0 LNP subscription Version Managed Object Class

```
subscriptionVersion MANAGED OBJECT CLASS
  DERIVED FROM "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2 :
  1992":top;
  CHARACTERIZED BY
    subscriptionVersionPkg;
  CONDITIONAL PACKAGES
    WSMSC-DPC-Pkg PRESENT IF
      !the WSMCS DPC is present!,
    WSMSC-SSN-Pkg PRESENT IF
      !the WSMCS SSN is present!;
  REGISTERED AS {LNP-OIDS.lnp-objectClass 20};
```

2. Behavior in the subscriptionVersion NPAC managed object class behavior should be modified to as follows:

New service provider SOAs can only modify the following attributes:

```
subscriptionLRN
subscriptionNewSP-DueDate
subscriptionCLASS-DPC
subscriptionCLASS-SSN
subscriptionLIDB-DPC
subscriptionLIDB-SSN
subscriptionCNAM-DPC
subscriptionCNAM-SSN
subscriptionISVM-DPC
subscriptionISVM-SSN
subscriptionEndUserLocationValue
```

```
subscriptionEndUserLocationType
subscriptionBillingId
subscriptionWSMSC-DPC
subscriptionWSMSC-SSN
```

3. The following attributes need to be added to the GDMO:

Subscription Version WSMSC Destination Point Code

```
subscriptionWSMSC-DPC ATTRIBUTE
  WITH ATTRIBUTE SYNTAX LNP-ASN1.DPC;
  MATCHES FOR EQUALITY, ORDERING;
  BEHAVIOUR subscriptionWSMSC-DPCBehavior;
  REGISTERED AS {LNP-OIDS.lnp-attribute 63};
```

```
subscriptionWSMSC-DPCBehavior BEHAVIOUR
  DEFINED AS !
  This attribute is used to specify the subscription version
  WSMSC Destination Point Code.
```

The data is stored in BCD (e.g. a value of FFF would be displayed as 255.255.255).

```
!;
```

LNP Subscription Version WSMSC SSN

```
subscriptionWSMSC-SSN ATTRIBUTE
  WITH ATTRIBUTE SYNTAX LNP-ASN1.SSN;
  MATCHES FOR EQUALITY, ORDERING;
  BEHAVIOUR subscriptionWSMSC-SSN-Behavior;
  REGISTERED AS {LNP-OIDS.lnp-attribute 64};
```

```
subscriptionWSMSC-SSN-Behavior BEHAVIOUR
  DEFINED AS !
  This attribute is used to specify the subscription version
  WSMSC SSN.
```

```
!;
```

4. The following package definitions need to be added:

```
-- WSMCS DPC Package
```

```
WSMCS-DPC-Pkg PACKAGE
  BEHAVIOUR WSMCS-DPC-PkgBehavior;
  ATTRIBUTES
    WSMCS-DPC GET-REPLACE;
  REGISTERED AS {LNP-OIDS.lnp-package ?};
```

```
WSMCS-DPC-PkgBehavior BEHAVIOUR
  DEFINED AS !
  This package provides for conditionally including the
  WSMCS-DPC attribute.
```

```
!;
```

-- WSMCS SSN Package

WSMCS-SSN-Pkg PACKAGE

```
BEHAVIOUR WSMCS-SSN-PkgBehavior;  
ATTRIBUTES  
    WSMCS-SSN GET-REPLACE;  
REGISTERED AS {LNP-OIDS.lnp-package ?};
```

WSMCS-SSN-PkgBehavior BEHAVIOUR

```
DEFINED AS !  
    This package provides for conditionally including the  
    WSMCS-SSN attribute.  
!;
```

1. The following behavior needs to be modified in the subscriptionVersionModify action.

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  
subscriptionWSMCS-DPC  
subscriptionWSMCS-SSN
```

2. The following behavior needs to be modified in the subscriptionVerionsNewSP-Create Action

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
subscriptionLNPTType
subscriptionPortingToOriginal-SPSwitch
subscriptionWSMCS-DPC
subscriptionWSMCS-SSN

ASN.1 Modifications

```
NewSP-CreateData ::= SEQUENCE {
    chcl [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] LNPTType,
    subscription-porting-to-original-sp-switch [18]
        SubscriptionPortingToOriginal-SPSwitch,
subscription-wsmcs-dpc [19] EXPLICIT DPC OPTIONAL,
subscription-wsmcs-ssn [20] EXPLICIT SSN 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 LNPTType,
    subscription-porting-to-original-sp-switch [18]
        EXPLICIT SubscriptionPortingToOriginal-SPSwitch,
subscription-wsmcsc-dpc [19] EXPLICIT DPC,
subscription-wsmcsc-ssn [20] EXPLICIT SSN
}

```

```

SubscriptionData ::= SEQUENCE {
    subscription-lrn [1] LRN OPTIONAL,
    subscription-new-current-sp [2] ServiceProvId OPTIONAL,
    subscription-activation-timestamp [3] GeneralizedTime OPTIONAL,
    subscription-class-dpc [4] EXPLICIT DPC,
    subscription-class-ssn [5] EXPLICIT SSN,
    subscription-lidb-dpc [6] EXPLICIT DPC,
    subscription-lidb-ssn [7] EXPLICIT SSN,
    subscription-isvm-dpc [8] EXPLICIT DPC,
    subscription-isvm-ssn [9] EXPLICIT SSN,
    subscription-cnam-dpc [10] EXPLICIT DPC,
    subscription-cnam-ssn [11] EXPLICIT SSN,
    subscription-end-user-location-value [12]
        EndUserLocationValue OPTIONAL,
    subscription-end-user-location-type [13] EndUserLocationType
OPTIONAL,
    subscription-billing-id [14] BillingId OPTIONAL,
    subscription-lnp-type [15] LNPTType,
    subscription-download-reason [16] DownloadReason,
subscription-wsmcsc-dpc [17] EXPLICIT DPC OPTIONAL,
subscription-wsmcsc-ssn [18] EXPLICIT SSN OPTIONAL
}

```

```

SubscriptionModifyData ::= SEQUENCE {
    subscription-lrn [0] LRN OPTIONAL,
    subscription-new-sp-due-date [1] GeneralizedTime OPTIONAL,
    subscription-old-sp-due-date [2] GeneralizedTime OPTIONAL,
    subscription-old-sp-authorization [3] ServiceProvAuthorization
OPTIONAL,
    subscription-class-dpc [4] EXPLICIT DPC OPTIONAL,
    subscription-class-ssn [5] EXPLICIT SSN OPTIONAL,
    subscription-lidb-dpc [6] EXPLICIT DPC OPTIONAL,
    subscription-lidb-ssn [7] EXPLICIT SSN OPTIONAL,
    subscription-isvm-dpc [8] EXPLICIT DPC OPTIONAL,
    subscription-isvm-ssn [9] EXPLICIT SSN OPTIONAL,
    subscription-cnam-dpc [10] EXPLICIT DPC OPTIONAL,
    subscription-cnam-ssn [11] EXPLICIT SSN OPTIONAL,
    subscription-end-user-location-value [12] EndUserLocationValue
OPTIONAL,
    subscription-end-user-location-type [13] EndUserLocationType
OPTIONAL,
    subscription-billing-id [14] BillingId OPTIONAL,
    subscription-status-change-cause-code [15]
        SubscriptionStatusChangeCauseCode OPTIONAL,
subscription-wsmcsc-dpc [19] EXPLICIT DPC OPTIONAL,
subscription-wsmcsc-ssn [20] EXPLICIT SSN OPTIONAL
}

```

```

}

SubscriptionModifyInvalidData ::= CHOICE {
    subscription-lrn [0] EXPLICIT LRN,
    subscription-new-sp-due-date [1] EXPLICIT GeneralizedTime,
    subscription-old-sp-due-date [2] EXPLICIT GeneralizedTime,
    subscription-old-sp-authorization [3] EXPLICIT
ServiceProvAuthorization,
    subscription-class-dpc [4] EXPLICIT DPC,
    subscription-class-ssn [5] EXPLICIT SSN,
    subscription-lidb-dpc [6] EXPLICIT DPC,
    subscription-lidb-ssn [7] EXPLICIT SSN,
    subscription-isvm-dpc [8] EXPLICIT DPC,
    subscription-isvm-ssn [9] EXPLICIT SSN,
    subscription-cnam-dpc [10] EXPLICIT DPC,
    subscription-cnam-ssn [11] EXPLICIT SSN,
    subscription-end-user-location-value [12] EXPLICIT
EndUserLocationValue,
    subscription-end-user-location-type [13] EXPLICIT
EndUserLocationType,
    subscription-billing-id [14] EXPLICIT BillingId,
    subscription-status-change-cause-code [15]
        EXPLICIT SubscriptionStatusChangeCauseCode,
    subscription-wsmc-dpc [16] EXPLICIT DPC OPTIONAL,
    subscription-wsmc-ssn [17] EXPLICIT SSN OPTIONAL
}

```

ISSUE: Do we want to be able to audit these new DPC/SSN values?

R8-3 Service Providers Specify Audit Scope

NPAC SMS shall allow Service Providers to specify the scope of an audit by specifying one or more of the following parameters:

- ?1 Specific Service provider network **or** ALL Service Providers networks
- ?2 Full audit for all LNP attributes **or** a partial audit where the Service Provider can specify one or more of the following LNP attributes:
 - ?1 LIDB data
 - ?2 CLASS data
 - ?3 LRN data
 - ?4 CNAM data
 - ?5 ISVM data
 - ?6 WSMSC data

Default: Full audit

R8-9 NPAC Personnel Specify Audit Scope

NPAC SMS shall allow NPAC SMS Personnel to specify the scope of an audit by specifying one or more of the following parameters:

- ?3 Specific Service Provider network **or** ALL Service Providers networks.
- ?4 Full audit for all LNP attributes **or** a partial audit where the Service Provider can specify one or more of the following LNP attributes:
 - ?7 LIDB data
 - ?8 CLASS data

?9 LRN data
?10 CNAM data
?11 ISVM data
?12 WSMSC data

Default: Full audit

```
AuditAttributes ::= CHOICE {
  specific-audit [0] SEQUENCE {
    lldb-data BOOLEAN,
    class-data BOOLEAN,
    cnam-data BOOLEAN,
    isvm-data BOOLEAN,
    lrn-data BOOLEAN,
    wsmsc-data BOOLEAN OPTIONAL -- I used optional
                                -- for backward compatibility
  },
  all-data [1] NULL
}
```

```
MismatchAttributes ::= SEQUENCE {
  seq0 [0] SEQUENCE {
    lsms-subscriptionLRN LRN,
    npac-subscriptionLRN LRN
  } OPTIONAL,
  seq1 [1] SEQUENCE {
    lsms-subscriptionNewCurrentSP ServiceProvId,
    npac-subscriptionNewCurrentSP ServiceProvId
  } OPTIONAL,
  seq2 [2] SEQUENCE {
    lsms-subscriptionActivationTimeStamp GeneralizedTime,
    npac-subscriptionActivationTimeStamp GeneralizedTime
  } OPTIONAL,
  seq3 [3] SEQUENCE {
    lsms-subscriptionCLASS-DPC DPC,
    npac-subscriptionCLASS-DPC DPC
  } OPTIONAL,
  seq4 [4] SEQUENCE {
    lsms-subscriptionCLASS-SSN SSN,
    npac-subscriptionCLASS-SSN SSN
  } OPTIONAL,
  seq5 [5] SEQUENCE {
    lsms-subscriptionLIDB-DPC DPC,
    npac-subscriptionLIDB-DPC DPC
  } OPTIONAL,
  seq6 [6] SEQUENCE {
    lsms-subscriptionLIDB-SSN SSN,
    npac-subscriptionLIDB-SSN SSN
  } OPTIONAL,
  seq7 [7] SEQUENCE {
    lsms-subscriptionISVM-DPC DPC,
    npac-subscriptionISVM-DPC DPC
  } OPTIONAL,
  seq8 [8] SEQUENCE {
    lsms-subscriptionISVM-SSN SSN,
    npac-subscriptionISVM-SSN SSN
  }
}
```



```

} OPTIONAL,
seq9 [9] SEQUENCE {
    lsms-subscriptionCNAM-DPC DPC,
    npac-subscriptionCNAM-DPC DPC
} OPTIONAL,
seq10 [10] SEQUENCE {
    lsms-subscriptionCNAM-SSN SSN,
    npac-subscriptionCNAM-SSN SSN
} OPTIONAL,
seq11 [11] SEQUENCE {
    lsms-subscriptionEndUserLocationValue EndUserLocationValue,
    npac-subscriptionEndUserLocationValue EndUserLocationValue
} OPTIONAL,
seq12 [12] SEQUENCE {
    lsms-subscriptionEndUserLocationType EndUserLocationType,
    npac-subscriptionEndUserLocationType EndUserLocationType
} OPTIONAL,
seq13 [13] SEQUENCE {
    lsms-subscriptionBillingId BillingId,
    npac-subscriptionBillingId BillingId
} OPTIONAL,
seq14 [14] SEQUENCE {
    lsms-subscriptionLNPTType LNPTType,
    npac-subscriptionLNPTType LNPTType
} OPTIONAL,
seq15 [10] SEQUENCE {
    lsms-subscriptionWSMCS-DPC DPC,
    npac-subscriptionWSMCS-DPC DPC
} OPTIONAL,
seq16 [10] SEQUENCE {
    lsms-subscriptionWSMCS-SSN SSN,
    npac-subscriptionWSMCS-SSN SSN
} OPTIONAL
}

```

Change Order Number: NANC 204

IMPACT/CHANGE ASSESSMENT

FRS	IIS	ASN.1	GDMO	6	SOA	LSMS

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 T1 and T2 notifications. The object creation notification (initial creation notification) will also need the information added. Other notifications need to be analyzed. 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:

- Name – 40 char
- Address Line 1 – 40 char
- Address Line 2 – 40 char
- City – 20 char
- State – 2 char
- Zip – 9 digits
- Country – 20 char
- Province – 2 char

A question was raised as to whether social security number and tax ids were also needed in this information.

This change order is considered to be a Phase 2 business requirement. It was suggested that a front-end solution be considered where new FOC/LSR type information is sent in messages prior to the create process. The group is investigating other options.

Change Order Number: NANC 205

IMPACT/CHANGE ASSESSMENT

FRS	IIS	ASN.1	GDMO	7	SOA	LSMS

Wireless Porting before Due Date

Wireless Service providers in wireless to wireless porting wish to be able to port once concurrence is received from both Old in New Service Providers. This will allow the port to occur prior to the due date and time.

Support of a new LNP Type was suggested as a. The LNP Type could then be used by the NPAC for the edit on when an activate could occur.

Today if both SP's concur and the due date specified on the SV is today then the activate could occur immediately. This may eliminate the need for change order NANC 201.

Backward Compatibility

The following table indicates if a change order is Backward Compatible (BC) and gives further detail if the change order is not backwards compatible or if there is a question about backwards compatibility.

Change Order Description	BC?	Notes
NANC 201- Unique Sets of Timers		
NANC 202- Unique Sets of Business Days/Hours		
NANC 203- Wireless Addition of WSMSC DPC and SSN Information		
NANC 204- Inter Service Provider Communication Process		
NANC 205- Wireless Porting before Due Date		