## NANC CHANGE ORDER SUMMARY FOR NPAC SMS FUNCTIONALITY

Rev: 86 to be used for December 2001 (New Orleans) meeting

12/04/01

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**Open Change Orders** 

		•	hange Or				
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution		el of fort
,,						NPAC	SOA LSMS
NANC 147	AT&T 8/27/97	Version ID rollover strategy. Currently there is no strategy defined for rollover if the maximum value for any of the id fields (sv id, Irn id, or npanx id) is reached. One should be defined so that the vendor implementations are in sync. Currently the max value used by Lockheed is a 4 byte-signed integer and for Perot it is a 4 byte-unsigned integer.  Sep 99 LNPA-WG (Chicago), since the version ID for all data is driven by the NPAC SMS, the rollover strategy should be developed by Lockheed. SPs/vendors can provide input, but from a high level, the requirement is to continue incrementing the version ID until the maximum ([2**31] -1) is achieved, then start over at 1, and use all available numbers at that point in time when a new version ID needs to be assigned (e.g., new SV-ID for a TN).	High	FRS	Func Backwards Compatible: NO  A strategy on how we look for conflicts for new version id's must be developed as well as a method to provide warnings when conflicts are found.  Oct 98 LNPAWG (Kansas City), it was requested that we begin discussing this in detail starting with the Jan 99 LNPAWG meeting. Beth will be providing some information on current data for the ratio of SV-ID to active TNs (so that we can get a feel for how much larger the SV-ID number is compared to the active TNs).  Sep 99 LNPA-WG (Chicago), Lockheed will begin developing a strategy for this.  Jun 00 LNPA-WG (Chicago), AT&T analysis and calculation (using current and projected porting volumes) indicate that a need for a version ID rollover strategy is more than five years away. Therefore, this change order is removed from R5, and will be discussed internally by NeuStar technical staff.  Jul 2000 meeting: NeuStar will track the problem. It will be a NeuStar internal design. Change order to stay on open list for possible later Document Only changes.	High	High? / High?
NANC 334	ESI 10/02/01	<b>Doc Only Change Order for FRS:</b> Clarification needed in Items L-11.0 F & G in Table C-7 of Appendix C in the FRS	High	FRS	next release.	N/A	N/A / N/A
		Currently Item L-11.0 F reads:			11/14/01 – Reviewed at November 2001 LNPA WG. Service Providers to verify internally that this change order does not have		

		Open C	Change Or	ders			
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution		el of fort
						NPAC	SOA LSMS
		Subscription Version Status Attribute Value Change Notification – Modify active			an impact on their local systems. Leave in "open" status until December 2001 meeting.		
		When an <i>Active</i> SV has been modified in the LSMS and the status of the SV has been re-set to Active (with or without a Fail-SP-List). The notification is sent only to the current SOA.			This is post SOW 28 (Release 3.1) but is already in the Release 3.1 software. Has been confirmed that it is being implemented in the software.		
		Should read:			ACTION ITEM: NeuStar (Gustavo) to verify any impacts to SOW 28.		
		Subscription Version Status Attribute Value Change Notification – cancel pending					
		When an <i>Active</i> SV has been modified in the LSMS <i>or there has been a cancellation of a disconnect- pending SV</i> and the status of the SV has been re-set to Active (with or without a Fail-SP-List). The notification is sent only to the current SOA.					
		Currently Item L-11.0 G reads:					
		Subscription Version Status Attribute Value Change Notification – cancel pending					
		When a <i>Pending</i> SV has been cancelled by the Old SP and the NPAC SMS has set the SV status to <i>Cancel-Pending</i> . The notification is sent to both SOAs: Old and New."					
		(continued)					
NANC 334 (cont'd)		Should read: Subscription Version Status Attribute Value Change Notification – cancel pending					
		When a <i>Pending or Conflict</i> SV has been cancelled by the Old <i>or New</i> SP and the NPAC SMS has set the SV status to <i>Cancel-Pending</i> . The notification is sent to both SOAs: Old					

		Open C	Change Or	ders			
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution		el of fort
						NPAC	SOA LSMS
		and New.					
NANC 335	LNPA WG 10/10/01	Doc Only Change Order for GDMO: Update GDMO to explain how the Primary/Secondary Service Provider situation works with Range notifications.  At the end of section 14.0 LNP Subscriptions Managed Object Class add the following text:  Range notifications are formatted according to the Service Provider Profile. If a Service Provider is an associated Service Provider to a primary Service Provider then the primary Service Provider SOA must be able to accept the notifications in the format indicated in the associated Service Provider Profile.	Medium	GDMO/IIS	Incorporate into next release of GDMO and IIS.  11/14/01 – Reviewed at November 2001 LNPA WG meeting. Service Providers to verify internally that this change order does not have an impact on their local systems. Leave in "open" status until December 2001 meeting.	N/A	N/A / N/A
NANC 336	Telecom Software 10/25/01	Doc Only Change Order for IIS: Flows B.4.4.3 and B.4.4.6 have typos that need to be corrected.  The notes at the end of the diagram and the end of the text need to be corrected as follows:  Note at end of diagram currently reads:  NPAC SMS waits for all the subscriptionVersionLocalSMS-CreateResults notifications (default 1 hour)  Should read:  NPAC SMS waits for all the subscriptionVersionLocalSMS-ActionResults notifications (default 1 hour)  Note at end of text currently reads:  The NPAC SMS now waits for all the subscriptionVersionLocalSMS-CreateResults M-EVENT-REPORTs a tunable amount of time (default	Low	IIS	Incorporate into next release of IIS.  11/14/01 – Reviewed at November 2001 LNPA WG. Service Providers to verify internally that this change order does not have an impact on their local systems. Leave in "open" status until December 2001 meeting.	N/A	N/A / N/A

		Open C	hange Or	ders			
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution	1	el of fort
						NPAC	SOA LSMS
		I hour) Should read:  The NPAC SMS now waits for all the subscriptionVersionLocalSMS- <i>Action</i> Results M-EVENT-REPORTs a tunable amount of time (default 1 hour)					
NANC 337	Telecom Software 10/25/01	Doc Only Change Order for IIS: Flow B.8.3 – note at the beginning of the text needs to be updated.  Currently reads:  Search the subscription database for subscription versions that match the specified mass update criteria. Perform steps c-through-f for the allowable range of subscription versions. The NPAC logs as errors subscription versions that match the mass update criteria but are in the wrong state.  Should read:  Search the subscription database for subscription versions that match the specified mass update criteria. Perform steps <i>I</i> through 4 for the allowable range of subscription versions. The NPAC logs as errors subscription versions that match the mass update criteria but are in the wrong state.	Low	IIS	Incorporate into next release of IIS.  11/14/01 – Reviewed at November 2001 LNPA WG. Service Providers to verify internally that this change order does not have an impact on their local systems. Leave in "open" status until December 2001 meeting.	N/A	N/A / N/A
NANC 338		Doc Only Change Order for FRS: Add requirement for NPAC SMS sending subscriptionVersionDonorSP-CustomerDisconnectDate notifications to the Donor SP SOA when a Number Pool Block De-Pool occurs and update the note in requirement RR5-85.  RR5-85 Currently reads:	High	FRS	Corresponding IIS Doc Only Change Order is NANC 339  Incorporate into next release of FRS.  11/14/01 – Reviewed at November 2001  LNPA WG. NeuStar has verified that the implementation supports the new requirement. Service Providers to verify internally that this	N/A	N/A / N/A

		Open C	Change Or	ders					
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution	Levo Eff			
						NPAC	SOA LSMS		
		RR5-85 Number Pooling Subscription Version Information – Suppression of Notifications			change order does not have an impact on their local systems. Leave in "open" status until December 2001 meeting.				
		NPAC SMS shall suppress status change and attribute value change notifications to the old and new/current service provider SOA systems for Subscription Versions with LNP Type of POOL. (Previously SV-2)			<i>y</i>				
		NOTE: This includes creation, modification, deletion, resend, resync, audits, and mass update. An exception to the deletion is the donor disconnect notification in a de-pool situation. This notification will still be sent to the Code Holder, which informs the Code Holder of the responsibility to provide vacant number treatment upon a de-pool of a 1K Block. This notification is the same that is sent for a disconnect of a ported SV in a non-pooling environment.							
		(continued)							
NANC 338 (cont'd)		RR5-85 is amended to read:							
		RR5-85 Number Pooling Subscription Version Inform	mation – Su	ppression of N	Notifications				
		NPAC SMS shall suppress status change and attribute value ch Versions with LNP Type of POOL. (Previously SV-2)	ange notifica	tions to the old	d and new/current service provider SOA systems	for Subscr	ription		
		NOTE: This includes creation, modification, deletion, re-send, resync, audits, and mass update. An exception to the deletion is the donor disconnect notification in a de-pool situation. This notification will still be sent to the Code Holder, which informs the Code Holder of the responsibility to provide recant number treatment upon a de-pool of a 1K Block. This notification is the same that is sent for a disconnect of a ported SV in a non-pooling environment.							
		Requirement to be added:							
		RR5-85.5 Number Pooling Subscription Version Inform							
		NPAC SMS shall send donor disconnect notifications to the Do	onor Service	Provider (Cod	e Holder) when a Number Pool Block De-pool o	ccurs.			

		Open C	hange Or	ders			
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution		el of fort
						NPAC	SOA LSMS
NANC 339	R3.1 Test Review Group 10/5/01	Doc Only Change Order for IIS: Flow B.4.4.24 to include the Donor Disconnect notifications that get sent to the Donor SOA when a Number Pool Block De-pool occurs.  Steps will be inserted in the flow diagram and the flow text between the existing steps 8 and 9 as follows:  NPAC SMS sends, depending upon the donor service provider's TN Range Notification Indicator, a subscriptionVersionDonorSP-CustomerDisconnectDate or subscriptionVersionRangeDonorSP-CustomerDisconnectDate notification to the donor service provider SOA that the subscription version is being disconnect with the customer disconnect date.  The donor service provider SOA confirms the M-EVENT-REPORT.	High	IIS	Corresponding FRS Doc Only Change Order is NANC 338.  Incorporate into next release of IIS.  11/14/01 – Reviewed at November 2001 LNPA WG. NeuStar has verified that the implementation supports the new requirement. Service Providers to verify internally that this change order does not have an impact on their local systems. Leave in "open" status until December 2001 meeting.	N/A	N/A/ N/A
NANC 340	Telecom Software 11/6/01	Doc Only Change Order for IIS: Update Appendix A  The information in Appendix A is out of date and needs to be updated.	Medium	IIS	ACTION ITEM: NeuStar needs to provide the CMA with the updated information.  11/14/01 – Reviewed at November 2001 LNPA WG. Waiting for feedback from NeuStar.	N/A	N/A / N/A
NANC 341	Telecom Software 11/6/01	Doc Only Change Order for GDMO: Section 7.0 LNP Subscription Version Modify Action – Clarification of allowable modify activities for subscription versions with status of 'conflict'.  Currently reads:  Old service providers can only modify the following attributes for pending or conflict subscription versions:  subscriptionOldSP-DueDate subscriptionOldSP-Authorization subscriptionStatusChangeCauseCode	High	GDMO/IIS	This change order is in conjunction with the NANC 332 FRS Doc Only change order which clarifies requirement RR5-42.1 Conflict Subscription Version – Old Service Provider Number Restriction.  Incorporate into next release of GDMO and IIS.  11/14/01 – Reviewed at November 2001 LNPA WG. Service Providers to verify internally that this change order does not have an impact on their local systems. Leave in "open" status until December 2001 meeting.	N/A	N/A/ N/A

		Open C	Change Or	ders			
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution		el of fort
						NPAC	SOA LSMS
NANC 342	Telecom Software 11/6/01	Change to read: Old service providers can only modify the following attributes for pending or conflict subscription versions:  subscriptionOldSP-DueDate subscriptionStatusChangeCauseCode  If the subscription version has a status of conflict, only the subscriptionOldSP-DueDate can be modified because a subscription version can only be put into conflict one time.  Doc Only Change Order for IIS: Flow B.5.1.5 – Text at end of this flow needs clarification.  Currently reads:  For subscription versions that are not being ported to the original service provider's switch, processing continues in the "Active SubscriptionVersion Create on Local SMSs" flow.  For ports to the original service provider's switch, the flow follows an immediate disconnect scenario. The NPAC SMS sets the broadcast timestamp, notifies the service provider SOA of the status change and proceeds to issue M-DELETEs for the subscriptionVersion to the Local SMS.  Change to read:  For subscription versions that are not being ported to the original service provider's switch, processing continues in the Flow B.5.1.6.1 - Active SubscriptionVersion Create on Local SMSs Using Create Action flow.  For ports to the original service provider's switch, the flow-	Low	IIS	Incorporate into next release of IIS.  11/14/01 – Reviewed at November 2001 LNPA WG. Service Providers to verify internally that this change order does not have an impact on their local systems. Leave in "open" status until December 2001 meeting.	N/A	N/A/ N/A

				Open Cl	hange Or	ders			
Chg Order #	Orig. / Date	Descr	iption		Priority	Category	Proposed Resolution		vel of fort
								NPAC	SOA LSMS
NANC	LNPA	follows an immediate disconnesets the broadcast timestamp, no SOA of the status change and profession for the subscription Version to the subscription Version to the subscription Version Pois Successful (continued).  Doc Only Change Order for 1	otifies the service provoceeds to issue M-DE the Local SMS (PTO) iption Version Port B.5.1.12.1 – rt-to-Original:	follow tt-to-	Medium	IIS	Incorporate into next release of IIS.	N/A	N/A/
343	WG 11/14/01	4.2.2 does not reflect all filterin supported by the NPAC SMS.  "From Section 4.2.2:	ng operations currently  nows the CMISE primited of the Local SMS by	tive					N/A
NANC 343		Exhibit 1 - CMISE Prin	nitive Filtering Support f	for the Subs	scription Ver	sion Object			
(cont'd)		<b>CMISE Primitives</b>	Filter Supported	Notes					
		M-ACTION	N	No filter	ring is appli	ed to the action	ns for the subscriptionVersion object.		
		M-GET	Y		ge with grea		essOrEqual, equality must be		
		M-SET	Y				essOrEqual, equality must be range modify requests.		
		M-DELETE	Y		ge with greated for range				
		" The table should be modified a	s follows to clarify exa	act function	nality for Ti	Ns and for Nun	nber Pooling functionality:		

				Open Chai	nge Or	ders					
Chg Order #	Orig. / Date	Descr	iption	Pr	riority	Category	Proposed Resolution	ttion Level Effo			
								NPAC	SOA LSMS		
NANC		(continued)									
NANC 343		Exhibit 2 - CMISE Prin	iitive Filtering Support f	for the Subscrip	iption Vers	ion Object					
(cont'd)		<b>CMISE Primitives</b>	Filter Supported	Notes							
		M-ACTION	N	No filtering is applied to the actions for the subscriptionVersion object.							
		M-GET	Y	auditing.  The field us	TN <b>Query</b> Range-with greaterOrEqual <b>and</b> lessOrEqual, equality must be supported for auditing.  The field used with greaterOrEqual and lessOrEqual filters is subscriptionActivationTimeStamp.						
				The scope for the filters is InpSubscriptions.							
				Number Pool Block Query with greaterOrEqual, lessOrEqual, and equality for EDR support.							
				The field used with greaterOrEqual and lessOrEqual filters is NPA-NXX-X.							
				The field used with equality is NPA-NXX-X.							
				The scope for the filters is InpSubscriptions.							
		M-SET	Y	TN Range <i>Modify</i> with greaterOrEqual, lessOrEqual, <i>and</i> equality must be supported f Mass Update or TN modify requests.							
				The field us	ised with	greater0rEqu	al and lessOrEqual filters is subscriptionTN.				
				complex. T	The fields	used are Serv	s for non-EDR number pool block the filter is vice Provider ID equality and greaterOrEqual h subscriptionTN as the second criteria.				
				The scope f	for the fi	lter is InpSubs	criptions.				
				Number Po	ool Block	Modify with g	greaterOrEqual and lessOrEqual for EDR sup	port.	1		
				The field us	ised with	greater0rEqu	al and lessOrEqual filters is NPA-NXX-X.				
				The scope f	for the fi	ters is InpSub	scriptions.				
NANC		(continued)	1								

				Open Ch	nange Or	ders			
Chg Order #	Orig. / Date	Descrip			Priority	Category	Proposed Resolution		el of fort
								NPAC	SOA LSMS
343 (cont'd)		M-DELETE	For the Tsubscript	ct or port to TN Range 1 tion TN.	original requ	rEqual, lessOrEqual the field that is used in th			
NANC 344	AT&T 11/2	more clearly explain information Update the text in section 14.0 S Class.  The text for subscriptionVersionRangeStatus, subscriptionVersionRangeAttribucurrently reads:  When this package is sent, it will information for the TN range, plu Version IDs. If the feature data d the original range, notifications w TN Range Notifications such tha all TNs in the smaller TN range, messages.  Change to read:  When this package is sent, it will information for the TN range, plu Version IDs. If the SVIDs are then an SVID range will be i not sequential then a paired in	Doc Only Change Order for GDMO: Update GDMO to more clearly explain information in range notifications.  Update the text in section 14.0 Subscriptions Managed Object Class.  The text for subscriptionVersionRangeStatusAttributeValueChange and subscriptionVersionRangeAttributeValueChange notifications currently reads:  When this package is sent, it will include one set of information for the TN range, plus a list of Subscription Version IDs. If the feature data does not apply to all TNs in the original range, notifications will be broken up into smaller TN Range Notifications such that the feature data applies to all TNs in the smaller TN range, and will be sent in separate messages.  Change to read:  When this package is sent, it will include one set of information for the TN range, plus a list of Subscription-Version IDs. If the SVIDs are sequential for the TNs then an SVID range will be included. If the SVIDs are not sequential then a paired list of SVIDs and TNs will be sent. If the feature data does not apply to all TNs in		Low	GDMO/IIS	Incorporate into next release of GDMO and IIS	N/A	N/A / N/A

		Open (	Change Or	ders			
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution		el of fort
						NPAC	SOA LSMS
		messages.					
		(continued)					
NANC 344 (cont'd)		The text for subscriptionVersionRangeObjectCreation, subscriptionVersionRangeDonorSP-CustomerDisconnectDate, subscriptionVersionRangeCancellationAcknowledge, subscriptionVersionRangeNewSP-CreateRequest, subscriptionVersionRangeOldSP-ConcurrenceRequest, subscriptionVersionRangeOldSP-FinalConcurrenceWindowExpiration, and subscriptionVersionRangeNewSP-FinalCreateWindowExpiration notifications currently reads:  When this package is sent, it will include one set of information for the TN range, plus a paired list of TN/Subscription Version ID combinations. If the feature data does not apply to all TNs in the original range, notifications will be broken up into smaller TN Range Notifications such that the feature data applies to all TNs in the smaller TN range, and will be sent in separate messages.  Change to read:  When this package is sent, it will include one set of information for the TN range, plus a paired list of TN/Subscription Version ID combinations or a range of TNs and Subscription Version Ids if the Subscription Version Ids are sequential. If the feature data does not apply to all TNs in the original range, notifications will be broken up into smaller TN Range Notifications such that the feature data applies to all TNs in the smaller TN range, and will be sent in separate messages.					

		Open C	hange Or	ders			
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution		el of fort
						NPAC	SOA LSMS

**Accepted Change Orders** 

		1	Change (				
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution		el of fort
						NPAC	SOA LSMS
ILL 5	AT&T 10/15/96	Round-Robin Broadcasts across LSMS associations The NPAC SMS would support additional LSMS associations and manage the distribution of transactions in a round robin algorithm across the associations. For example, due to performance conditions a Service Provider may want to start another LSMS association for network/subscription downloads. The NPAC SMS would accept the association, manage security, and distribute network/subscription PDUs across the 2 or more associations using the round robin algorithm (One unique PDU will be sent over one association only.)	Medium Low	NPAC SMS functionality / IIS	Func Backwards Compatible: NO  This feature may already be implemented in the Lockheed Martin developed NPAC SMS.	Low	N/A / High
NANC 151	Bellcore 9/4/97	TN and Number Pool Block addition to notifications It has been requested that the TN for the subscription version be added to all notifications that currently contain SV-ID but not TN from the NPAC SMS. It is possible for a SOA in a disconnect or modify-active situation, to not have the SV record in their database. Therefore, when the attribute/status change notification comes from the NPAC SMS, there is no way to correlate its version id with the TN on the disconnect or modify request in SOA.  Jun 00 LNPA-WG meeting, additionally, the same type of change should be done for Number Pool Block (i.e., add the NPA-NXX-X to all notifications that currently contain Block- ID but not NPA-NXX-X).	Low	IIS	Func Backwards Compatible: NO  This would be a deviation from the standard since the TN would not have been an attribute that has changed.  This is an "OLD" Release 2.0 change order, that has been moved into the "Accepted" category, awaiting prioritization	Low	Low / N/A
NANC 169	Bellcore 5/23/97	Delta Download File Creation by Time Range for SVs It has been requested that requirements be added to the FRS to allow for creation of a delta download file by date and time range, for SVs.  During Dec '98 Natl N Pool meeting, discussed need to change functionality when requesting SV BDD with a time range. Currently, the NPAC provides all "active" SVs based on Activation Broadcast Complete Timestamp. This creates an issue for modifications that are within the specified time	Medium	FRS	Pure Backwards Compatible: YES  This item is on hold until further experience is gained with download. This change is expected to help a service provider catch-up faster after an extend outage when the database becomes large.  It was indicated that this functionality is already available in the Lockheed Martin	Med	N/A / N/A

		Accepted	Change (	Orders			
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution		el of fort
		range window, but the Activation was prior to the specified			NPAC SMS implementation. Delete Pending	NPAC	SOA LSMS
		time range. There is also an issue for Activation Failures.  During Jan LNPAWG meeting, proposed changes to handle two issues, include:  1. Incorporate the start and end time ranges into the file			This change order was re-opened for discussion during the Dec '98 LNPAWG meeting.		
		name.  2. Need to capture all SV activity (activation, modification, disconnect) into the file, when doing time range.			Dec LNPAWG (Atlanta), verify start and end timestamps embedded in filename. Update documentation to state Activation Broadcast Complete Timestamp is used for comparison.		
		(continued)			Update: The start and end timestamps are NOT embedded in the filename.  The proposal from the Natl N Pool Sub-Committee is to use the Last Modified Timestamp attribute in the SV, to determine whether or not an SV fits in the specified time range.		
NANC 169 (con't)	Continued	Download File Examples, Subscription versions in the download file are selected by an N begin and end range. The file name for the Subscriptions down where a time range is NOT selected, will be in the form	PA-NXX nload file,		(continued)  Jan LNPAWG (Atlanta), proposed changes wer will include proposed changes in next version of management list.  Feb LNPAWG (San Ramon), updated multiple change order (both file name and requirements)	of the chan	ige
		NPANXX-NPANXX.DD-MM-YYYYHH24MISS The NPANXX-NPANXX values map to the selection criteria at stamp maps to the current time (Central Time - standard/c The Subscriptions file given in the example would be named: 303123-303125.10-13-1996081122			NOTE: The baseline for this change order is R this change order gets merged into R3, need to reflect the EDR Flag, and filter out LNP Type of 521).	2. Thereforchange rec	19 to
		In the case where a time range is selected, the file nather the Subscriptions download file with a time range, which the format:  NPANXX-NPANXX.DD-MM-YYYYHH24MISS. DD-E	ill be in		ACTION ITEM: Jim will look at the broadcast SV Object, and how the NPAC Data Model attr the broadcast to the LSMSs. CLOSED, Mar 99. Activations are using the A	ibutes mat	tch up to

Description	Priority	Category	Proposed Resolution	Leve	el of
				Eff	ort
				NPAC	SOA LSMS
ne first time stamp maps to the current time (when the enerated), the second time stamp maps to the start tange, and the third time stamp maps to the end time II three time stamps are represented in Central Time standard/daylight), even though the Subscription Verre stored in the NPAC in Greenwich Mean Time. The IMEZONE value will contain one of two values, either CDT, depending on the current time zone in the Colime Zone (when the file is generated).	eriteria, the file is time range. e rsions the her CST		will be reviewed in Apr.  Apr LNPAWG (DC), reviewed updates. Move	to Accepte	ed List.
Also for #1, no functional requirements or IIS flows are affected by this change.  For #2, new requirements are proposed (see below)  Req 1 Subscription Version Information Bulk Download File Creation – Subscription Versions  NPAC SMS shall allow NPAC personnel to request a bulk data download file for Subscription Version data via the NPAC Administrative Interface. (existing NPAC SMS functionality)  Req 2 Subscription Version Information Bulk Download File Creation – Selection Criteria  NPAC SMS shall include the Requesting Service Provider, Active/Disconnect Pending/Partial Failure Subscription Version Criteria fields for the Subscription Version bulk data download file via the NPAC Administrative Interface.					
the energy and the en	e NPANXX-NPANXX values map to the selection of first time stamp maps to the current time (when the terated), the second time stamp maps to the start a tige, and the third time stamp maps to the end time three time stamps are represented in Central Time andard/daylight), even though the Subscription Versioned in the NPAC in Greenwich Mean Time. The MEZONE value will contain one of two values, eit CDT, depending on the current time zone in the Contained (when the file is generated). It is generated in the subscriptions file with a time range given in the file be named:  303123-303125.10-13-1996081122.10-10-19960000000.10-12-1996115959.CST (initional) of for #1, no functional requirements or IIS flows are affected #2, new requirements are proposed (see below)  41 Subscription Version Information Bulk AC SMS shall allow NPAC personnel to request a ministrative Interface. (existing NPAC SMS functional fields for the Subscription Version Activity Choicection Criteria fields for the Subscription Version Version Version Criteria fields for the Subscription Version Versi	e NPANXX-NPANXX values map to the selection criteria, first time stamp maps to the current time (when the file is secrated), the second time stamp maps to the start time age, and the third time stamp maps to the end time range. three time stamps are represented in Central Time andard/daylight), even though the Subscription Versions a stored in the NPAC in Greenwich Mean Time. The MEZONE value will contain one of two values, either CST CDT, depending on the current time zone in the Central are Zone (when the file is generated). It is generated in the example will be named:  303123-303125.10-13-1996081122.10-10-1996000000.10-12-1996115959.CST national requirements or IIS flows are affected by this characteristic in the second of the control of the	e NPANXX-NPANXX values map to the selection criteria, first time stamp maps to the current time (when the file is serated), the second time stamp maps to the start time (ge, and the third time stamp maps to the end time range. three time stamps are represented in Central Time (andard/daylight), even though the Subscription Versions a stored in the NPAC in Greenwich Mean Time. The MEZONE value will contain one of two values, either CST CDT, depending on the current time zone in the Central nee Zone (when the file is generated).  E Subscriptions file with a time range given in the example will be named:  303123-303125.10-13-1996081122.10-10-1996000000.10-12-1996115959.CST notinued)  of for #1, no functional requirements or IIS flows are affected by this change.  #2, new requirements are proposed (see below)  41 Subscription Version Information Bulk Download File Created SMS shall allow NPAC personnel to request a bulk data download ministrative Interface. (existing NPAC SMS functionality)  42 Subscription Version Information Bulk Download File Created SMS shall include the Requesting Service Provider, Active / Discont Latest View of Subscription Version Activity Choice, Time Range in Cerection Criteria fields for the Subscription Version bulk data download freed to the Subscription Version bulk data download freed to Criteria fields for the Subscription Version bulk data download freed to Criteria fields for the Subscription Version bulk data download freed to Criteria fields for the Subscription Version bulk data download freed to Criteria fields for the Subscription Version bulk data download freed to Criteria fields for the Subscription Version bulk data download freed to the Subscription Version b	AC SMS shall allow NPAC personnel to request a bulk data download file for Subscription Version data via the ministrative Interface. (existing NPAC SMS shall include the Requesting Service Provider, Active/Disconnect Pending/Partial Failure Subscription Version bulk data download file via the NPAC Administrative Interface.	de NPANXX-NPANXX values map to the selection criteria, first time stamp maps to the current time (when the file is serated), the second time stamp maps to the start time time age, and the third time stamp maps to the end time range. three time stamps are represented in Central Time undard/daylight), even though the Subscription Versions stored in the NPAC in Greenwich Mean Time. The MEZONE value will contain one of two values, either CST CDT, depending on the current time zone in the Central time Zone (when the file is generated).  2 Subscriptions file with a time range given in the example ald be named:  303123-303125.10-13-1996081122.10-10-1996000000.10-12-1996115959.CST nitinued)  of for #1, no functional requirements or IIS flows are affected by this change.  #2, new requirements are proposed (see below)  q 1 Subscription Version Information Bulk Download File Creation – Subscription Version data via the NPAC ministrative Interface. (existing NPAC SMS functionality)  q 2 Subscription Version Information Bulk Download File Creation – Selection Criteria  AC SMS shall include the Requesting Service Provider, Active/Disconnect Pending/Partial Failure Subscription Version Latest View of Subscription Version Activity Choice, Time Range in Central Time (standard/daylight), and TN Range as ection Criteria fields for the Subscription Version bulk data download file via the NPAC Administrative Interface.

		Accepted	Change (	Orders					
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution		el of Fort		
						NPAC	SOA LSMS		
		Subscription Versions Only or Latest	View of S	ubscription	Version Activity Choice				
		NPAC SMS shall allow NPAC Personnel to select eit Latest View of Subscription Version Activity, and shall				ns Only (	or		
		Req 4 Subscription Version Information Bulk Download File Creation – Data in Active/Disconnect Pending/Partial Failure Subscription Versions Only Choice							
	NPAC SMS shall use the <i>Active/Disconnect Pending/Partial Failure Subscription Versions Only</i> selection to only include Subscription Versions with a status of either Active, Disconnect Pending or Partial Failure in the Subscription Version Bulk Data Download file.								
		(continued)							
NANC 169 (con't)	Req 5	Subscription Version Information Bulk Downlo Choice	oad File Cı	reation – Da	ta in Latest View of Subscription Versi	on Activ	ity		
	order to o TN in the	AS shall use the <i>Latest View of Subscription Version Act</i> capture activation, modification, and deletion transace Subscription Version Bulk Data Download file, for a ition, then modification) within the specified time ran	tions for S given NP	ubscription '	Version data, but only include the latest	instance	of the		
	Req 6	Subscription Version Information Bulk Downlo	oad File Cı	reation – Tin	ne Range Fields				
	Range en	AS shall use the Start Time Range entry field as an inc try field as an inclusive ending range in Central Time e specified Time Range.							
	Req 13	Subscription Version Information Bulk Downlo	oad File Cı	reation – Tin	ne Range Fields and SV Data Model				
	Time Star	PAC SMS shall use the Start and End Time Range entry fields to include Subscription Version data, based on the Activation Broadcast me Stamp, Modify Broadcast Time Stamp, and Disconnect Broadcast Time Stamp, in the NPAC's Subscription Version Data Model, when enerating the file for the Latest View of Subscription Version Activity selection.							
	Req 7	Subscription Version Information Bulk Downlo	oad File Cı	reation – TN	Range Fields				
	_	AS shall use the first TN Range entry field as an inclu			· ·	clusive er	nding		

		Accepted	Change (	Orders			
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution		el of Fort
						NPAC	SOA LSMS
	range, for	Subscription Version data.					
	(continued						
NANC	Req 8	Subscription Version Information Bulk Downlo	oad File Cı	eation – Sel	ection Criteria Combinations		
169 (con't)	_	S shall edit the selection criteria combination as sho					
		Time Range   TN Range					
	Partial Fai Latest Vie Such that a • Active	connect Pending/ lure SVs Only   Rejected   Optional w of SV Activity   Required   Optional a combination of: with a Time Range shall be rejected.					
		View shall require a Time Range. nge shall be optional for both Active and Latest View	W.				
	Req 9	Subscription Version Information Bulk Data De	ownload –	Subscriptio	on Version Results		
	NPAC SM SMS.	S shall provide a bulk data download file, based on	the selecti	on criteria, t	hat contains all Subscription Versions in	n the NPA	аC
	Req 10	Subscription Version Information Bulk Data De	ownload –	Subscriptio	on Version Results Sort Order		
	NPAC SM	S shall sort the Subscription Version Bulk Data Dow	nload file,	in ascending	g order based on the value in the TN att	tribute.	
	(continue	1)					
NANC 169	Req 11	Subscription Version Information Bulk Data De	ownload –	Filters for S	Subscription Versions		

		Accepted	Change (	Orders			
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution		el of fort
						NPAC	SOA LSMS
(con't)	Req 12 NPAC SM	Subscription Version Information Bulk Data Do  Subscription Version Information Bulk Data Do  Shall automatically put the bulk data download file.	ownload –	FTP Sub-D	rirectory	SPID, th	at
NANC 193	NANC T&O 1/23/1998	TN processing during NPAC SMS NPA Split Processing There was group consensus that NPAC behavior would not change until the start of permissive dialing. An example would be an audit that occurred during split processing one- minute before the start of permissive dialing. The NPAC should act as if permissive dialing has not yet started for the audit initiated during split processing. The Split processing should have no effect on operations of the system.  A clarification requirement should be added as follows:  NPAC SMS shall processes requests during split processing prior to the start of permissive dialing as if the split processing has not yet occurred.  Additional clarification requirement:  NPAC SMS shall in a download request made after permissive dialing start for subscription version data sent prior to permissive dialing start, return the new NPA-NXX for subscription versions involved in an NPA Split.  The above requirements do not reflect the current Lockheed NPAC SMS implementation.	Medium High	FRS	Pure Backwards Compatible: YES  Lockheed in release 1.2 currently holds requests until the NPA Split processing completes (regardless of the NPA or NPA-NXX). Nortel/Perot rejects the requests during NPA split processing. It was not clear if errors were for all requests or just requests related to the NPA or NPA-NXX being split.  Desired behavior would be to have no errors occur. Requests put on hold or queued would only be those related to NPA-NXX's involved in the NPA split being processed.  Lockheed in Release 1.3 will perform NPA-NXX locking.  The following questions need to be answered by vendors:  What will the SOA do if it sends an old NPA-NXX prior to PDP and the NPAC returns the new SV with the new NPA-NXX? What would happen for a create/audit/query? What will LSMS systems do if an audit is sent for new NPA prior to PDP? Are there LSMS that will not be able to handle audits on new NPA-NXX right at the start of PDP?	High +	N/A / N/A

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		Accepted	Change (	Orders			
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution		el of Ort
						NPAC	SOA LSMS
					(continued)		
NANC 193 (con't)	Continued			What is the N If NPAC split NXX not in s After reviewi	es it take for NPAC/SOA/LSMS to split an NPA- IPAC behavior for recovery spanning time before is starting at midnight and SOA sends new NPA- plit what would happen? It was determined that to blit had not occurred during split processing prio	e & after P. NXX for a	n NPA- should
				dialing.	nswers received above has been created.	F	
				LSMS, and Nerrors could cand documen a request sent when an SOA	sed that this requirement would have to be implest IPAC vendors. This requirement would shorten to occur for the change of an NPA. It was requested to on behavior in the following situations: When to before the splits after the split start, how should not LSMS receives a request sent before the split ould it respond?	the window that we re the NPAC it respond	wwhen eview receives ? Also
				NPAC SMS to PDP it will portable NPA requests after reflect the new	error scenarios will be created. If an active is reconfere PDP it will be rejected. If the old SP is reconference as the old NPA-NXX if that NPA-NXX in the NPAC SMS otherwise it will be rejected the start of PDP for information occurring beforw NPA-NXX for subscription versions involved as finalized on the 5/22 T&O call.	ceived afte XX is still a ceted. Do e PDP sho	r the end a valid wnload
NANC 246	National Number Pooling Sub- Committe e 11/19/98	NPA-NXX Filters for Bulk Data Download files of SVs When the NPAC generates Bulk Data Download (BDD) files of SV data, NPA-NXX filters for a Service Provider are NOT incorporated in the BDD file generation process.  It has been requested that the NPAC be changed to incorporate the filters when generating the SV BDD files.	Low	FRS	Pure Backwards Compatible: YES  Dec LNPAWG (Atlanta), accepted as is. However, low priority.  December 2000 Meeting: This change order had been merged into NANC 169. At the	Low	N/A / N/A
		incorporate the litters when generating the SV BDD files.			December 2000 LNPA WG meeting it was		

		Accepted	Change (	Orders			
Chg Order #	Orig. / Date	Description	Priority		Proposed Resolution	Leve Eff	el of ort
"						NPAC	SOA LSMS
NANC	I NIPA -	This change order is a subset of NANC 169 (same as requirement 11 in 169), which is shown below.  Req 1 Subscription Version Information Bulk Data Download – Filters for Subscription Versions  NPAC SMS shall apply NPA-NXX Filters to Subscription Versions in the creation of bulk data download files.	High	ERS IIS	decided to break out use it to apply filters to the Bulk Data Download files. NANC 169 has a requirement to apply filters to the Delta Bulk Data Download files and the group wanted the same function applied to the regular Bulk Data Download files.  Func Backwards Compatible: NO	Med	Med
NANC 299	LNPA- WG 9/15/99	NPAC Monitoring of SOA and LSMS Associations via Heartbeat This is an extension of NANC 219 and NANC 301. Instead of utilizing a TCP Heartbeat and an abort message, the NPAC SMS would utilize an application level heartbeat message on every association. If a response was not returned for any given application level heartbeat message, an alarm would be initiated for NPAC Personnel.  Oct LNPAWG (KC), this change order is designed to establish the application level heartbeat process (which requires an interface change to both the NPAC and the SOA/LSMS). This process will allow two-way communication and allow either side to initiate the application level heartbeat message. The application level heartbeat process should be set up so that the functionality can be optionally set up per association.  The alarming process is the same as 219, such that an alarm would be initiated whenever application level heartbeat responses are not sent by the NPAC or SOA/LSMS. When these alarms occur, the NPAC Personnel would contact the affected Service Provider to work the problem and ensure the association is brought back up.	High	FRS, IIS, GDMO, ASN.1	The current working assumption is that this heartbeat would be a new message, it would not have any access control, it would be at a low level in the protocol stack, this heartbeat would occur on the same port as the association, this message would only occur if no traffic was sent/received after a configurable period of time, and this heartbeat would be two-way to allow either side to initiate this message.  All parties still need to examine if there might be an issue with filtering in their firewalls. The need for both a network level heartbeat and application level heartbeat still needs to be decided.  Jan 00 LNPAWG meeting, the group has not been able to determine the feasibility of implementing an application level heartbeat. It was agreed to put this change order on hold, pending the outcome of NANC 301 (NPAC TCP Level Heartbeat [transport layer]). The functionality documented in this change order needs further review before this change order can be considered "accepted and ready for selection into a release".	Med	Med -High / Med - High

		Accepted	Change (	Orders			
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution		el of fort
,,						NPAC	SOA LSMS
					(continued)		
NANC 299 (con't)	continued				May 00 LNPAWG (Atlanta), leave open until further analysis of NANC 219 and NANC 301 (i.e., after R4 implementation).  June 00 LNPAWG meeting, group consensus (during R5 discussion) is to move to cancel-		
					July 2000 meeting – LNPA WG consensus is that they do not want to cancel this change order but move it back to an accepted change order for a future release. Metrics and reports that will be provided after R4.0 will give more information to determine whether or not this change order is needed.		
NANC 300	LNPA- WG 12/6/99	Resend Exclusion for Number Pooling This is an extension of NANC 227. During the Dec 99 LNPA-WG meeting, it was proposed to remove Number Pooling functionality from NANC 227, and create a new change order for this functionality.		FRS/GDMO	Functional Backwards Compatible: NO	Med	Med- Low
NANC 311	GTE 6/5/00	Query Message of SP Association Status Provide information of the current service status (TBD) for all LSMS associations in each NPAC region. This query would be initiated by SOAs only. This would be an enhancement to NANC 219 and 301 (Association Monitoring) which both will be fully deployed in NPAC SMS Release 4.0.  Jun 00 LNPAWG meeting, at the suggestion of the CMA, the group discussion migrated away from a dynamically updated web site, to a query message that could be used by the soon-to-be-activating Service Provider, to determine if all associations are available. This new query would be a CMIP message (M-ACTION) that would allow a query on an NPA-		FRS	Functional Backwards Compatible: NO  December 2000 meeting: LNPA WG decided to remove this change order from the Release 5.0 group but to keep it as an active change order until the results of the association monitoring that are being implemented in Release 4.0 (NANC 219) can be evaluated. This change order, as it currently exists in the Release 5.0 package, will be removed from the Release 5.0 package and kept as a separate document until such time as it is determined if this change order	Med	Med / N/A

		Accepted	Change (	Orders			
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution		el of fort
						NPAC	SOA LSMS
		NXX, where the NPAC SMS would take into account all filters for that given NPA-NXX, and return a list of all SPIDs that are currently not available that should be available (i.e., the New SP is expecting an empty unavailable SP List).			should be implemented or closed.		
NANC 312	Nextlink 6/14/00	Different User Levels on the LTI Provide two user <b>security</b> levels for the LTI. One would have access to the reports option, and the second would not have this access. All other access would be identical for the two user levels.		FRS	Pure Backwards Compatible: Yes	Med	N/A
NANC 316	LNPA WG 8/16/00	Change the NSAP Field Size Declaration in ASN.1 – ASN.1  Recompile  As described in change order NANC 315, the NSAP field currently uses only 12 of the 20 octets declared as the field size. The other 8 are for a port number but this is not currently used. The ASN.1 should be updated to be a field of size 12 octets. This would eliminate the need for the NPAC software to truncate the data sent by the SOAs and LSMSs.  ASN.1 Update:  OSI-Address ::= SEQUENCE {    nsap     OCTET STRING(SIZE(2012)),    tsap     OCTET STRING(SIZE(14)),    ssap     OCTET STRING(SIZE(14)),    psap     OCTET STRING(SIZE(14)) }	?LOW	ASN.1	Func Backwards Compatible: NO  Need to determine when to implement this change order  This change affects the Modify Customer Profile only.  October 2000 meeting: Move to Accepted	???	???
NANC 319	Verizon 10/25/00	NPAC Edit to Ensure NPA-NXX of LRN is in Same LATA as NPA-NXX of Ported TN  Local Number Portability (LNP) standards require that service providers assign at least one Location Routing Number (LRN) per switch per LATA that the switch serves. Post-query LNP call processing in the various switch types		FRS	Func Backwards Compatible: ???  November 2000 meeting: Currently the NPAC has no concept of a LATA. When a new NPA-NXX is opened the LERG assigns a LATA ID. An NPA can cross LATAs. Every NPA-NXX has a LATA association. It is a 3-digit number. There is one LRN per LATA but	???	N/A / N/A

		Accepted	Change (	Orders			
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						NPAC	SOA LSMS
		requires that the NPA-NXX of an LRN that is returned from the database must be in the same LATA as the NPA-NXX of the dialed number.  Currently, the NPAC does not perform any edits on a New Service Provider CREATE or MODIFY messages in order to ensure that the NPA-NXXs of both the LRN and the ported TN are in the same LATA.  When a call is placed to a ported TN associated with an LRN from an NPA-NXX in a different LATA, the call fails in the originating switch, resulting in a service-affecting condition that is predominantly identified only after customer complaints.  This proposed Change Order is a request for an NPAC edit on New Service Provider CREATE and MODIFY messages that would reject any CREATE or MODIFY if the NPA-NXXs of the LRN and ported TN contained in the CREATE or MODIFY are not in the same LATA. This edit would eliminate this particular service-affecting condition as well as the expense of trouble-shooting the cause and working with the New Service Provider to modify their LRN.			there can be multiple NPAs in a LATA and multiple LATAs in an NPA. This edit would ensure that the NPA-NXX of the TN and the NPA-NXX of the LRN is the same. LATAs can cross NPAC regions. The LERG would be the source of the LATA information rather than the Service Providers. If there is no LATA in the LERG information for the NPA-NXX or the LRN then the NPAC would reject the create request. If there were a modification of an LRN to active SVS or in a Mass Update this edit would have to be applied. This would also apply to Pooled Blocks. LATA should not be criteria for Mass Update.  December 2000 Meeting: Group accepted this change order. It was also determined that the change order needed to cover Modifies as well as Creates.		
NANC 321	WorldCom 12/13/00	Regional NPAC NPA Edit of Service Provider Network Data - NPA-NXX Data  Business Need: When a service provider submits a message to the NPAC in order to create a pending subscription version, the NPAC verifies that the old service provider identified in the message is the current service provider and that the number to be ported is from a portable NPA-NXX. If the telephone number already is a ported number, the NPAC will look at the active SV for that number to determine the identity of the current SP as shown in the active SV. If no active SV exists, then the number is not currently ported and the NPAC determines the current SP instead based on NPA-NXX ownership as shown	???	FRS	Functional Backwards Compatible: Yes  January 2001 meeting: Accepted pending review of the final write-up in February.  February 2001 meeting: Accepted	???	N/A / N/A

		Accepted	Change C	Orders			
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution	1	el of Fort
						NPAC	SOA LSMS
		in the NPAC's network data for each service provider. The NPAC also looks at the network data to confirm that the NPA-NXX has been identified as open to portability.  If a service provider has entered an NPA-NXX in its network data but has done it for its network data associated with the wrong region, then the correct NPAC region, when receiving create messages involving numbers in that NPA-NXX, will be unable to see that the TNs involve a portable NPA-NXX; in this case the create message will be rejected by NPAC.					
		Furthermore, another service provider could erroneously enter the NPA-NXX in its network data for the correct NPAC region. Then the NPAC's portable NPA-NXX validation would pass, but the current service provider validation would fail. In either case the telephone number could not be ported until the service provider network data error were corrected.					
NANC 321 (cont'd)		It is important therefore to assure that service provider NPA-N2 assignee to populate the data. The introduction of an NPA edit region encompassing the involved NPA will effectively serve b data in the wrong NPAC region's database and it consequently.	function, to oth functions	validate that an s. Such an edit	NPA-NXX input is to network data associated function would not allow a service provider to	with the NI put its NPA	PAC
Description of Change:  Network Data is submitted by service providers over their SOA/LSMS interfaces or via the NPAC Administrative OpGUI or the SOA required to enter each portable NPA-NXX for which it is the LERG assignee. The NPAC uses this service provider network data to pe functions of subscription version data to confirm current SPID correct and that TN is from portable NXX and to determine TN ow situations.						m certain v	alidation
		Detailed requirements are as follows:					
		1. The NPAC will reject an NPA-NXX network data entry attensubmitted.	mpt if the NI	PA involved is	not encompassed by the NPAC region to which	the data is	being
		2. A table of valid NPAs will be established for each regional N	NPAC.				
		3. Each table of valid NPAs open in the NPAC service area wil	l be maintair	ned by NPAC p	personnel for each regional NPAC.		

		Accepted	Change (	Orders			
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						NPAC	SOA LSMS
		The NPAC will obtain information on new NPAs from the I     The change order would be implemented on a regional basis					
NANC 322	LNPA WG 12/13/00	Clean Up of Failed SP Lists based on Service Provider BDD Response File  Business Need: During discussion of change order NANC 169 at the December 2000 LNPA WG meeting it was decided to write a new change order to address the clean up of Failed SP Lists once a service provider received and processed a Bulk Data Download File or a Delta Bulk Data Download File and responded to the NPAC with its Service Provider Response File.  Description of Change: It has been requested that NPAC clean up Failed SP Lists using data received in the Service Provider Response File resulting from the processing of a Bulk Data Download File or a Delta Bulk Data Download File.	???	FRS	Pure Backwards Compatible: Yes  January 2001 meeting: Accepted	???	N/A / ?? ?
NANC 323	LNPA WG 01/10/01	During the January 2001 LNPA WG meeting there was much discussion on the NANC 217 change order and it was decided that it would be best to have two change orders for updating of SPIDs. NANC 217 would be retained and used to cover the simple case where a SPID is being completely retired (merger or acquisition) and a new change order created to cover the partial update of a SPID.	???	FRS	When there is a need to migrate a portion of one SPIDs data to another SPID a mass update with Service Provider notifications suppressed will be used. Service Providers receive a file from NPAC with information they can use to update their databases.  February 2001 meeting: Accepted	High	???/???

Next Documentation Release Change Orders

		Next Documentation		Change Or			
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution		el of fort
						NPAC	SOA LSMS
NANC 332	NeuStar 09/10/01	Doc Only Change Order for FRS: Clarification of requirement RR5-42.1  Currently reads:  RR5-42.1 Conflict Subscription Version - Old Service Provider Number Restriction  NPAC SMS shall only allow a subscription version to be placed into conflict by the Old Service provider one time.  Change to read:  RR5-42.1 Conflict Subscription Version - Old Service Provider Number Restriction  NPAC SMS shall only allow a subscription version to be placed into conflict by the Old Service provider one time, which includes the changing of the cause code on a subscription version.	High	FRS	Incorporate the correction into the FRS and- publish with the next release.  October 2001 meeting: Accepted by LNPA WG. To be included in next release of FRS. Move to "Next Documentation Release Change Orders" sub-section of the "Accepted Change Orders" section of this document.	N/A	N/A / N/A
NANC 333	TSE 09/26/01	Doc Only Change Order for GDMO & IIS:  Clarification needed in the GDMO & two IIS Flows for the subscriptionVersionRangeObjectCreation notification (one of the new range notifications in change order NANC 179 for NPAC SMS Release 3.1).  In the ObjectInfo for subscriptionVersionRangeObjectCreationInfo there are attribute assertions for subscriptionVersionId and subscriptionTN as is done for the single objectCreation notification for a subscription version. These values would be the SVID and TN for the first TN in the list or range for the subscriptionVersionRangeObjectCreation notification.  (continued)	HIGH	GDMO/IIS	Incorporate into the GDMO and IIS immediately and re-publish these documents as Release 3.1.1  October 2001 meeting: Accepted by LNPA WG. To be included in next release of GDMO & IIS. Move to "Next Documentation Release Change Orders" sub-section of the "Accepted Change Orders" section of this document.	N/A	N/A / N/A
NANC		GDMO changes needed for clarification of the sul	bscription	VersionRar	geObjectCreation notification:		

		Next Documentation	n Release	<b>Change Or</b>	ders		
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution		el of fort
						NPAC	SOA LSMS
333 (cont'd)		InpSubscriptionsBehavior BEHAVIOUR  DEFINED AS!  Local SMS and NPAC SMS Managed Object  The Local SMS (Data Download Association provider SOA (SOA Management Association provider SOA) (SOA Management Association inpSubscriptions object. The InpSubscriptions object. The InpSubscriptions once the object has been created. The InpSubscriptionsName will always be "Interest of their Service Provider TN Range Notification the NPAC SMS. The subscriptions used to send the subscriptionVersionRame with their package is sent, it will incompare the TN range, plus a paired list of TN combinations. If the feature data does range, notifications will be broken up Notifications such that the feature data smaller TN Range, and will be sent in smaller TN Range, and will be sent in the TN and SVID fields that are sen notification will contain the Thirst TN in the range or list.  (continued)	on Function friptions Na the Local value of appSubscript frication for apply into small ta applies separate mathe old t in the striptions of the old the cold of t	con) can M-GE me attribut all SMS Interstions".  Creation not Indicator ingeobjectCreation not est of information Version to all TNS des and new seesingle constants.	ifications ifications s set to ationPkg is ification. mation for ID in the e in the  as the current object ervice provider. The object creation		
NANC 333 (cont'd)		16.0 LNP Subscription Version Range Object (subscriptionVersionRangeObjectCreation NOTIFICA		otification			

Chg Order #	Orig. / Date	BEHAVIOUR subscriptionVersionRangeObject WITH INFORMATION SYNTAX LNP-ASN1.Version AND ATTRIBUTE IDS range-object-creation-info subscript access-control accessControl; REGISTERED AS {LNP-OIDS.lnp-notification} subscriptionVersionRangeObjectCreationBehavionDefineD AS ! This notification type is used to reversions for range operations. It uppersions to the control of	nRangeObject ionVersionRa . 16}; or BEHAVIOUR	navior; Creation angeObjectCrea	Proposed Resolution	Level of Effort  NPAC SOA LSMS
		WITH INFORMATION SYNTAX LNP-ASN1.Versic AND ATTRIBUTE IDS range-object-creation-info subscript access-control accessControl; REGISTERED AS {LNP-OIDS.lnp-notification} subscriptionVersionRangeObjectCreationBehavi DEFINED AS! This notification type is used to re	nRangeObject ionVersionRa . 16}; or BEHAVIOUR	Creation	ationInfo,	
		WITH INFORMATION SYNTAX LNP-ASN1.Versic AND ATTRIBUTE IDS range-object-creation-info subscript access-control accessControl; REGISTERED AS {LNP-OIDS.lnp-notification} subscriptionVersionRangeObjectCreationBehavi DEFINED AS! This notification type is used to re	nRangeObject ionVersionRa . 16}; or BEHAVIOUR	Creation	ationInfo,	
		notification as defined in M.3100.  The service provider supports this in Provider TN Range Notification Indiction the service provider will no longer object creation notification for a service provider will no longer object creation notification for a service provider. The TN and SVID field object creation notification we subscription version id for the This notification is prioritized and according to its SOA Notification Prisms.  IIS changes need for clarification subscription  For flow B.5.1.1, step 5 should be changed as following to its solution for the continued)	otification ator is set receive an ubscription tain the sent to the ds that are first The transmitted ority tunable VersionRange	if the Service on the NPAC Service.  same data as the old and in the TN as in the rank.	s the current new service the single nd nge or list.	
NANC 333 (cont'd)		5. If the M-ACTION was successful, the NPAC SMS objectCreation or subscriptionVersionRangeObject subscriptionVersionNPAC creation:  **subscriptionVersionId**				

		Next Documentati	on Release	Change Or	rders		
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution	Level of Effort	
						NPAC SC LSI	OA MS
	subscriptionTN subscriptionOldSP subscriptionNewCurrentSP subscriptionOldSp-DueDate subscriptionOldSP-Authorization subscriptionOldSP-AuthorizationTimeStamp subscriptionStatusChangeCauseCode (if subscriptionOldSP-Authorization set to false) subscriptionVersionStatus  If the notification is a subscriptionVersionRangeObjectCreation then the TN and SVID are the TN and SVID of the fit the range or list.  For flow B.5.1.2, step 5 should be changed as follows:  5. If the M-ACTION was successful, NPAC SMS issues, depending upon the old service provider's TN Range Notification Indicator, an old or subscriptionVersionRangeObjectCreation M-EVENT-REPORT containing the following attributes to old service provider SOA of subscriptionVersionNPAC creation:						
		subscriptionVersionId					
		subscriptionTN subscriptionOldSP subscriptionNewCurrentSP subscriptionNewSP-CreationTime subscriptionVersionStatus subscriptionNewSP-DueDate	eStamp				
		If the notification is a subscription Version Range O the range or list.	)bjectCreati	ion then the	TN and SVID are the TN and SVID o	f the first TN	in

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Release 3.1 Change Orders

		Release 3.	1 Change				
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution		el of fort
,,						NPAC	SOA LSMS
NANC 179	Lockheed Martin 11/25/97	TN Range Notifications Currently notifications for TN range related operations come as individual notifications for each TN in the range. It has been suggested that the notifications for all TN's in a range be combined into one notification.  After further analysis, it was determined that this should be revised to include all appropriate status attribute value changes and attribute value changes, plus return to donor notifications.	Medium	FRS, IIS, GDMO, ASN.1	Func Backwards Compatible: NO  An additional write-up of this change order implementation was provided to the group. Lockheed is currently doing some preliminary sizing.  SPs should be discussing the downsized version internally.  Refer to R4 Change Orders for current proposed resolution.  July 2001: Change Order moved into R3.1 package.	Med	Med- High / N/A
NANC 240	LNPA WG 10/15/98	No cancellation of SVs Based on Expiration of T2 Timer During the discussion of NANC 198, it was mentioned that Service Providers end up doing more work if the NPAC cancels an SV, at the expiration of the T2 timer, when a New SP does NOT send up a matching Create message.  Therefore, this change order has been opened to explore the possibility of changing the NPAC to cancel the SV, "at some later date", than the expiration of T2, which is what the current functionality requires (R5-23.4 New Service Provider Fails to Authorize Transfer of Service).  This change order is related to NANC 198.  During the Sep LNPA-WG meeting, another option was proposed by Ameritech. After T2 has expired and the New SP has NOT sent up a matching SV create, the NPAC SMS sets the SV to conflict (instead of cancel). The conflict would go to cancel after a tunable (currently set to 30) number of days (i.e., self cleaning), reference tunable "Conflict Expiration Window".	High	FRS, IIS, GDMO, ASN.1	Func Backwards Compatible: NO  Jim will look into NPAC functionality to determine if there are any issues.  Service Providers should evaluate internal issues with the LSR/FOC process, as well as operational impacts that may occur if this change order is implemented. Specifically, the New SP should evaluate if they could use the T1 expiration timer notification, as a mechanism to take an action, and send up the matching Create message to the NPAC.  MCI has requested that the following be considered for the processing steps:  When the T2 timer expires before a new SP Create message is received by NPAC, the NPAC shall:	Med / High	?/N/A (? depends on implem entation )

		Release 3.	1 Change	Orders			
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution		el of fort
						NPAC	SOA LSMS
					1. send notification to both old SP and new SP that T2 timer has expired, and 2. start the T3 timer (tunable).  Upon receipt of the new SP create before expiration of the T3 timer, the NPAC shall stop the T3 timer.  (continued)		
NANC 240 (con't)	Continued			NPAC, the NI 1. cancel the p 2. send notific missing new p Nov LNPAW mind that if wexpiration of the T2 timer. cancel into so and T2 timers Move to accedecided on the option proposition proposition and T2 timers Refer to R4 C	pending SV, and cation to both old SP and new SP that pending S' SP create.  G (Dallas), spirited discussion by the group. On we determine we do NOT want the NPAC to auto T2 (and want some later date), then we need to s Need to add the option that we may need to income type of housekeeping, and not have it schedu	e thing to cancel at eparate this proporate the ain, we have analysis.	led due to keep in the is from is auto oday's T1  ven't The T3
NANC 294	LNPA WG 8/11/99	Changing Due Date Edit Functionality in the NPAC SMS for 7pM on Due Date Problems Service Providers involved in last minute emergency porting	High	FRS, IIS, GDMO	Pure Backwards Compatible: YES  Aug LNPAWG (Portland), the group talked	Med	N/A / N/A

		Release 3.	1 Change	Orders			
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution		el of fort
						NPAC	SOA LSMS
		situations, cannot create/concur/activate SVs that are created after 7p (eastern standard time) on the due date. Since those created after 7p EST, equate to after midnight GMT the next day on the NPAC SMS, the old SP cannot concur to the port, and the new SP cannot activate at this point in time since timers have not expired.  Sep LNPAWG (Chicago), after much discussion the group agreed that this problem exists for initial creates as well as concurs, if either one happens after 7p EST.  Option #1 from Portland is a huge effort, and does not resolve the issue (it just narrows the window). Option #2 from Portland was deemed to be the best solution at this point. However, the back-dating needs to be limited to ensure this functionality does not open the window for "pamming" (port slamming)  Oct LNPAWG (KC), the back-dating capability allows the SP (local side thinks it's still the current date) to send a previous day's date, even though the NPAC has already rolled to the next day.  This back-dating still allows an SP to send up yesterday's date with zeros in the time portion. This will accommodate SPs that always sends all zeros in SV create messages (even though this would be more than the 4-10 hour back-dating range).			about two options: 1.) change the NPAC SMS to run and store in central time; 2.) change the NPAC SMS edit to allow a concurrence in the past (i.e., back-dated concurrence). It was noted that the first option still has a problem with ports in the western region, west coast region, and hawaii, albeit the problem window is smaller. This will be discussed in more detail next month.  Sep LNPAWG (Chicago), using option #2, a new tunable ("Back-Dating Due Date Differential") per region would only open the window for back-dating to the largest differential time zone in that region from the NPAC (i.e., from a map perspective, the left most time zone ["prevailing time zone"] in that specific region). The time zone would be adjusted for standard/daylight, and the tunable would have a valid range of 4-10 hours (4 hours is EDT, 10 hours is Hawaiian standard time).  Oct LNPAWG (KC), the desired functionality may require two tunables per region (to account for both standard time and daylight time).  July 2001: Change Order moved into R3.1 package.		
NANC 305	CMA 1/24/00	R3 ASN.1 documentation-only updates  1.  SystemType ::= ENUMERATED {     soa(0),     local-sms(1),     soa-and-local-sms(2), value not     supported		ASN.1	Pure Backwards Compatible: YES  July 2001: Document Only change included in ASN.1 Version 3.1.0. Not part of the Release 3.1 SOW.	N/A	N/A

		Release 3.	1 Change	Orders			
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution	1	el of fort
						NPAC	SOA LSMS
		npac-sms(3) value is only valid for AccessControl definition  }  The comment for the second enumeration should be changed from "value not supported" to "it is assumed this value will not be sent by any local system".					
NANC 324	AT&T 01/25/01	IIS Document Only Change – Flow B.5.4.7.3: Subscription Version Disconnect With Effective Release Date  The text in line 5 of the flow is incorrect.  Currently it states		IIS	February 2001 meeting: Accepted  July 2001: Document Only change included in IIS Version 3.1.0. Not part of the Release 3.1 SOW.	N/A	N/A / N/A
NANC 325	AT&T 01/25/01	GDMO Document Only Change – 4.0 LNP Subscription  Version Cancel Action  Need to add some additional text to the subscriptionVersionCancelBehavior BEHAVIOUR  Postconditions to cover the cancellation of a disconnect-pending.  Current text:  subscriptionVersionCancelBehavior BEHAVIOUR  Postconditions: The service provider has set the version status		GDMO	February 2001 meeting: Accepted  July 2001: Document Only change included in GDMO Version 3.1.0. Not part of the Release 3.1 SOW.	N/A	N/A / N/A

		Release 3.	1 Change	Orders			
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution		el of fort
						NPAC	SOA LSMS
		to cancel-pending if the other service provider has concurred, or to cancel if the other service provider has not concurred. An error will be returned if there is no version that can be canceled or the service provider is not authorized.  Proposed text:  subscriptionVersionCancelBehavior BEHAVIOUR  Postconditions: If the status was pending or conflict, the service provider has set the version status to cancelpending if the other service provider has concurred, or to cancel if the other service provider has not concurred. If the status was disconnect-pending, the service provider has set the version status back to active. An error will be returned if there is no version that can be canceled or the service provider is not authorized.					
NANC 326	AT&T 02/02/01	IIS Document Only Change – Flow B.5.6: Subscription Version Query  The query return data list in step 2 is missing one item. It should contain "subscriptionVersionId".  Currently it states:  The query return data includes:  subscriptionTN (SOA, LSMS) subscriptionLRN (SOA, LSMS) subscriptionNewCurrentSP (SOA, LSMS)  Change to:  The query return data includes:		IIS	February 2001 meeting: Accepted  July 2001: Document Only change included in IIS Version 3.1.0. Not part of the Release 3.1 SOW.	N/A	N/A / N/A

			Release 3.	1 Change	Orders				
Chg Order #	Orig. / Date	Description	on	Priority	Category	Propo	sed Resolution		el of fort
								NPAC	SOA LSMS
		subscriptionVersionId subscriptionTN (SOA, LSM subscriptionLRN (SOA, LSM subscriptionNewCurrentSP	MS) SMS)						
NANC 327	NeuStar 3/19/01	FRS Document Only Change – Up System Tunables  Currently the Subscription Tunables Short Business Days and Long Busitunables. Per requirements RR3-11 incorrect. Requirement RR3-11 stat business days shall be Monday throu NPAC operations-defined holidays" states "NPAC SMS long business day through Saturday excluding NPAC cholidays".  (continued)	Table in Appendix C has ness Days listed as and RR3-30 this is es "NPAC SMS short 19th Friday excluding Requirement RR3-30 19th shall be Monday		FRS	Business Days and from the Subscrip Appendix C of the April 2001 Meeti will be made in the date  July 2001: Documents Documents of the July 2001: Documents Documents Days and Days and Documents Days and Days a	tion: Remove the Short d Long Business Days items tion Tunables Table in e FRS.  ng: Accepted. The update e next release of the FRS,  ment Only change included 0. Not part of the Release	N/A	N/A / N/A
NANC 327 (cont'd)	Current Tal	ole:	SUBSC	RIPTION	TUNABLI	ES			
			Tunable Name	Default Value	Units	Valid Range			
			Long Initial Concurrence Window	9	business hours	1-72			
			The hours subsequent to initially created by which are expected to authorize Provider port. (T1 timer)	both Servic transfer of s	e Providers us	ing long timers			

			Release 3.1						
Chg Order #	Orig. / Date	Descriptio	n	Priority	Category	Propo	sed Resolution		el of ort
								NPAC	SOA LSMS
			SUBSC	RIPTION	TUNABLE	ES			
			Tunable Name	Default Value	Units	Valid Range			
			Long Business Day Star Time	rt TBD	hh:mm	00:00 - 24:00			
			Parameter tunable to the long business days.	value specifi	ed by the conti	racting region for			
			Short Business Days	Monday – Friday		Monday – Sunday			
			The business days availal business days.	ole for Service	ce Providers us	sing short			
			<b>Long Business Days</b>	Monday – Sat.	Days	Monday - Sunday			
	(continued)		The business days availabusiness days.	ole for Service	ce Providers us	sing long			
NANC	Revised Tal	ole:					•		
327 (cont'd)			SUBSC	RIPTION	TUNABLE	ES			
			Tunable Name	Default Value	Units	Valid Range			
			Long Initial Concurrence Window	9	business hours	1-72			
			The hours subsequent to initially created by which are expected to authorize Provider port. (T1 timer)	both Service transfer of se	e Providers usi	ing long timers			

			Release 3.1	Change	Orders				
Chg Order #	Orig. / Date	Description	on .	Priority	Category	Propo	sed Resolution		el of fort
								NPAC	SOA LSMS
			SUBSCR	RIPTION	TUNABLE	ES			
			Tunable Name	Default Value	Units	Valid Range			
			Long Business Day Start Time	TBD	hh:mm	00:00 - 24:00			
			Parameter tunable to the valong business days.	alue specific	ed by the contr	racting region for			
NANC 328	Wireless Ops SC 3/20/01	Business Need: Currently, per RR3 NPAC SMS has Long Business Day through Saturday excluding NPAC of holidays. This means that short time through Saturday. Wireless Service I timers to run on Sundays as well so hour window on all days of the weel Business Days need to be Monday that the change order include making tunable also. The LNPA WG accept Description of Change: Wireless Service I time the change order include making tunable also. The LNPA WG accept Description of Change: Wireless Service I to the third that the change order include making tunable also. The LNPA WG accept Description of Change: Wireless Service I that Long Business Days	-30 in the FRS, the s defined as Monday operations-defined ers only run Monday Providers need short they can port in a 2½ c. To meet this need Long brough Sunday.  & T Broadband requested g Short Business Days a ed this request.	High	FRS	requested that the making Short Bus This was accepted CMA was directe accordingly and p 2001 meeting.  May 2001 Meetin Short Business Descriptions	ing: AT&T Broadband change order include siness Days a tunable also. If by the LNPA WG and the doto revise the change order present it again at the May and the May Modifications to include	Low	N/A / N/A

		Release 3.	1 Change	Orders			
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution		el of fort
						NPAC	SOA LSMS
		with a default value of Monday through Sunday.					
		April 2001 LNPA WG Meeting: The change order will be revised to make both Long and Short Business Days a tunable.					
		(cont'd)					
NANC 328 (cont'd)		Initial Requirements:  Req 1 Long Business Days Tunable Parameter NPAC SMS shall provide a Long Business Days tunable parancalculation excluding NPAC operations-defined holidays.  Req 2 Long Business Days Tunable Parameter – Default NPAC SMS shall default the Long Business Days tunable parancer Req 3 Long Business Days Tunable Parameter – Valid Vane NPAC SMS shall use days of the week as valid values for the Insert Req 4 Short Business Days Tunable Parameter NPAC SMS shall provide a Short Business Days tunable parancalculation excluding NPAC operations-defined holidays.  Req 5 Short Business Days Tunable Parameter – Default NPAC SMS shall default the Short Business Days tunable parancer (SMS Shall default the Short Business Days tunable parancer (SMS Shall default the Short Business Days tunable parancer (SMS SMS Shall use days of the week as valid values for the SMS SMS SMS SMS SMS SMS SMS SMS SMS SM	Value meter to Monulues Long Busines meter that def Value meter to Monulues Short Busines	nday through S s Days tunable fines the days of hday through I ss Days tunable	Sunday.  e parameter.  of the week that are valid for operations involving  Friday.  e parameter.	ng business	time
NANC 329	NeuStar 06/13/01	Prioritization of SOA Notifications  Business Need: With the deployment of the NPAC Release 3.0 in the Northeast region a SOA – NPAC Interface problem has surfaced. The improved performance of NPAC Release 3.0 and the faster hardware platform that this software is	High	FRS	Func Backwards Compatible: YES  June 2001 meeting: CMA to work with NeuStar to develop first draft of the requirements which will be reviewed by the	Med	N/A / N/A

		Release 3.	1 Change	Orders			
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution		el of fort
						NPAC	SOA LSMS
		running on is resulting in transactions being processed for broadcast to the industry quicker than the SOA – NPAC interface can transmit them. During peak periods the interface cannot support the volumes of notifications that the NPAC SMS is generating, thus there is a long delay in notification delivery that results in operational issues. At the current time it is the ILEC that is primarily affected by this problem because the ILEC receives the largest volume of SOA notifications but the problem has the potential of affecting any Service Provider. The NAPM, LLC has decided not to go forward with the deployment of NPAC Release 3.0 until this interface problem has been mitigated. NeuStar is proposing that SOA Notifications be prioritized and transmitted over the interface based on priority. This would allow for more timely delivery of Service Providers high priority notifications.			LNPA WG via Conference Call on Thursday, 06/28/2001.  Jul 2001 meeting: Accepted. Change Order included in R3.1 package.		
NANC 329 cont'd		Description of Change: Currently SOA notifications are not prioritized so they are generated by the NPAC SMS and then transmitted on a 'first in, first out' basis. During a large porting volume peak this model can produce major delays in the transmission of notifications through the SOA – NPAC interface, resulting in operational issues. This change order would prioritize SOA notifications and allow requests and notifications with the highest priority to be transmitted first. The SOA notifications would have five categories: high, medium, low, and none. The category of none would indicate that a Service Provider did not want to receive a particular notification. One of the other three categories would be assigned to each notification on a per region basis. A Service Provider would have the option of overriding the default value.					
NANC 330	TSE 07/13/01	IIS Document Only Changes to Multiple Flows:  Flow B.4.4.3, step 5 of the flow diagram  Correct "subscriptionVersionLocalSMS-CreateResults"	Low	IIS		N/A	N/A /N/A

		Release 3.	1 Change	Orders			
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution		el of fort
						NPAC	SOA LSMS
		notification in the flow pictures to be."subscriptionVersionLocalSMS-ActionResults".  Flow B.4.4.6, step 5 of the flow diagram Correct "subscriptionVersionLocalSMS-CreateResults" notification in the flow pictures to be."subscriptionVersionLocalSMS-ActionResults".  Flow B.4.4.8, step 9 of the flow diagram Correct "subscriptionVersionLocalSMS-CreateResults" notification in the flow pictures to be."subscriptionVersionLocalSMS-ActionResults".  Flow B.5.1.6.1, step 3 of the flow diagram Correct "subscriptionVersionLocalSMS-CreateResults" notification in the flow pictures to be."subscriptionVersionLocalSMS-ActionResults".  Flow B.5.3.1, steps 5 & 7 of the flow diagram Correct "M-EVENT-REPORT attributeValueChange" to be "M-EVENT-REPORT					
NANC 330 (cont'd)		subscriptionVersionAttributeValueChange".  continued  Flow B.5.3.1.1  Step 4 of the flow picture  Correct "subscriptionversionNewSP- CancellationAcknowledge" to be "subscriptionversionOldSP- CancellationAcknowledge".  Step 8 of the flow picture  Delete "subscriptionVersionStatus=canceled".  Step 9 of the flow picture  Add "subscriptionVersionStatus=canceled".  Flow B.5.3.2					
		Correct the flow picture to match the text steps.					

		Release 3.	1 Change	Orders			
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution		el of fort
						NPAC	SOA LSMS
		Flow B.5.5.4 Correct title of flow from "Subscription Version Conflict by Old Service Provider Explicitly Not Authorizing (First Create)" to "Subscription Version Conflict by Old Service Provider Explicitly Not Authorizing (2nd Create)".  Flow B.6.4 Correct the flow picture to match the text steps.					
NANC 331	TSE 08/06/01	<ul> <li>IIS Document Only Changes - Add missing flow for Subscription Version Create: Failure to Receive Response from New SOA after "Initial Concurrence Window" Expiration</li> <li>This scenario shows no response within "Initial Concurrence Window" by the new service provider.</li> <li>In this case, the old service provider SOA issued the create request. The NPAC SMS has issued the ObjectCreation M-EVENT REPORT back to both the old and new service provider SOAs. No response has yet been received by the new service provider SOA.</li> <li>A new flow will be created to match the following text:</li> <li>NPAC SMS does not receive a response from the new service provider SOA within the "Initial Concurrence Window" for the pending subscriptionVersionNPAC created by the old service provider SOA.</li> <li>NPAC SMS sends the new service provider, depending upon the new service provider's TN Range Notification Indicator, a subscriptionVersionNewSP-CreateRequest M-EVENT-REPORT.</li> <li>The new service provider SOA returns an M-EVENT REPORT confirmation to the NPAC SMS.</li> <li>New service provider has up to the "Final Concurrence</li> </ul>	Low	IIS		N/A	N/A /N/A

Release 3.1 Change Orders       Chg     Orig. /     Description     Priority     Category     Proposed Resolution     Level of									
Orig. / Date	Description	Priority	Category	Proposed Resolution		el of fort			
					NPAC	SOA LSMS			
	Window" to respond to the request.  If the new service provider SOA responds with a valid M-ACTION or M-SET, processing resumes as a successful create.								
	_	Orig. / Date  Window" to respond to the request.  If the new service provider SOA responds with a valid M-ACTION or M-SET, processing resumes as a successful	Orig. / Date  Description Priority  Window" to respond to the request.  If the new service provider SOA responds with a valid M- ACTION or M-SET, processing resumes as a successful	Orig. / Date  Description Priority Category  Window" to respond to the request.  If the new service provider SOA responds with a valid M- ACTION or M-SET, processing resumes as a successful	Orig. / Date    Description	Orig. / Date  Description Priority Category Proposed Resolution NPAC  Window" to respond to the request. If the new service provider SOA responds with a valid M-ACTION or M-SET, processing resumes as a successful			

Release 4.0 Change Orders

		Release 4.	O Change				
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution		el of fort
						NPAC	SOA LSMS
ILL 130	AT&T 1/6/97	Application Level Errors  Errors in the SOA and LSMS interfaces are being treated as CMIP errors and it may sometimes be difficult for a SOA to know the true reason for an error from the NPAC SMS and therefore indicate a meaningful error message to its users. It has been requested that application level errors be defined where appropriate and returned as text to the SOA.	High	FRS, IIS, GDMO, ASN.1	Func Backwards Compatible: NO  Application level errors would be defined in the IIS.  Refer to R4 Change Orders for current proposed resolution.	High	High / High
NANC 138	CMA 8/11/97	Definition of Cause Code Values – REVISITED NANC 54 defined the cause code values and the FRS was to be updated. Due to an oversight this update was not made in the FRS. The change was going to be applied in FRS 1.4 and 2.2. However, a discrepancy as found. The defined values specified in NANC 54 where are as follows:  The values less than 50 were reserved for SMS NPAC internal use.  Other defined values are:  0 – NULL (DO NOT MODIFY) 1 - NPAC automatic cancellation 50 - LSR Not Received 51 - FOC Not Issued 52 - Due Date Mismatch 53 - Vacant Number Port 54 - General Conflict  In table in the FRS the following cause code is defined: NPAC SMS Automatic Conflict from Cancellation  There is no corresponding code defined in Change Order NANC 54. Is there a numeric value or is this cause code valid?	Medium Low	FRS	Func Backwards Compatible: NO  Update to be made to the FRS.  Pending review by the vendors. Lockheed does not set a cause code when the NPAC SMS automatically puts a cancelled order into conflict. Perot is reviewing their implementation.  There is not a requirement in the FRS for a cause code of NPAC SMS Automatic Conflict from Cancellation.  Operations flows are being reviewed. In figure 6, box 3.  Perot like Lockheed, does not use the cause code in question.  A SOA vendor has been asked to evaluate the impact of not receiving a cause code value with a status of conflict.  Flows in Appendix A also need to be updated.	Low	Low / Low

		Release 4.	0 Change	Orders			
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution		el of fort
						NPAC	SOA LSMS
NANC 138 (cont.)	Continued	RR5-36 should be renumbered to RR5-36.2.  RR5-36.1 Cancel Subscription Version – Cause Code for New Expiration  NANC SMS shall set the cause code to "NPAC SMS Automatifrom Cancellation" after setting the Subscription Version status from cancel-pending when the new Service Provider has not acknowledged cancellation after the Cancellation-Final Concur Window.  2 will be the value defined for the "NPAC SMS Automatic Con Cancellation" cause code.	c Conflict to conflict rence		Awaiting sizing from NPAC vendors, and valid functionality (reference existing requirements) to conflict.  SOA vendors heard from to date do not have a cause code not being present.  This is an "OLD" Release 2.0 change order, tha into the "Accepted" category, awaiting prioritiz Refer to R4 Change Orders for current propose	from cancer problem w at has been action	rith the
NANC 187	AT&T 1/7/98	Linked Action Replies It has been requested that all action replies be reviewed to determine if they should be linked replies.  Sep 99 LNPA-WG (Chicago), it was requested to merge the NANC 186 text into this change order.  NANC 186 text It has been requested that the notification recovery action reply be a linked reply. This would be done to control the size of the response sent back to the Local SMS systems.	High	FRS, IIS, GDMO	Func Backwards Compatible: NO Related to NANC 186 and NANC 183.  Actions that were identified as issues were the network and subscription version recovery actions. It is suggested that service providers that cannot handle large PDUs request network or subscription version recovery in smaller time intervals. A request has been made to Lockheed to document this in M&P.  NANC 186 text Related to ILL 79, NANC 183, and NANC 184. As a work around to the large PDU size in the interim. It is suggested that service providers that cannot handle large PDUs request notification recovery in smaller time intervals.  Refer to R4 Change Orders for current proposed resolution.	Med	Med / Med

		Release 4.	0 Change	Orders			
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution		el of fort
						NPAC	SOA LSMS
NANC 191	Ameritech 1/19/1998	DPC/SSN value edits It has been requested that DPC and SSN values be edited to make sure that if a SSN is specified that the DPC is specified. This functionality was requested due to a problem with a large port were the DPC and SSN information entered by the originator was invalid. Currently the NPAC SMS does no validity checks on the SSN and DPC information other than it is of the format and type defined in the IIS and FRS.	High	FRS, GDMO	Pure Backwards Compatible: YES  The edits need to be verified by industry experts to insure they are correct. Gary Sacra has taken an action item to obtain more information from T1/S1.6.  The following information was provided by Gary for DPC/SSN edits:  • The 9-digit point code (DPC) is broken down into three components: 3-digit  > Network ID - valid range=001-255  > 3-digit Cluster ID - valid range=000-255  > 3-digit Member number - valid range=000-255  • Subsystem Number (SSN) is a separate three digit number with a valid range of 000-255.  • It does not make sense in the network to have a DPC without an SSN or vice versa.  Refer to R4 Change Orders for current proposed resolution.	Low	N/A / N/A
NANC 192	T&O Conferenc e Call 1/23/1998	information into the NPAC SMS. This would prevent manual	High	FRS, IIS	Pure Backwards Compatible: YES  John Malyar from Bellcore gathered some information for the group as to whom, how, and when for files containing the data that are distributed in the industry currently.	Med	N/A / N/A

		Release 4.	0 Change	Orders			
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution		el of fort
						NPAC	SOA LSMS
					John indicated that NANPA identifies and announces the split. The LERG has tools to pull data for a split and distribute it electronically. This is one source from which a file can be obtained.  Refer to R4 Change Orders for current proposed resolution.		
NANC 200	AGCS 2/28/1998	Notification of NPA Splits It has been requested that to facilitate synchronization during NPA split, the NPAC via the mechanized interface should notify the SOA and LSMSs. The preferred method would be to have a new managed object that contains all split information. It would still be up to the respective system to perform the splits, but all systems would be in sync. A second alternative would be to have the NPAC issue a notification that states the NPAC is start/ending split processing.	High	FRS, IIS, GDMO, ASN.1	Func Backwards Compatible: NO  This change order is related to change order NANC 192 that proposes getting the split information from the LERG.  Refer to R4 Change Orders for current proposed resolution.	Med / Low	Med / Med
NANC 217	Sprint 5/22/1998	Mass Update of SPID  It has been requested that Mass Update functionality be enhanced to allow SPID to be changed for all network data and subordinate subscription data. The current NPAC functionality allows mass updates to LRN, GTT data, and optional data (e.g., billing ID) for all active subscriptions currently serviced by that specific Service Provider, by NPANXX.  Having this functionality would facilitate a situation where one Service Provider (SP1) purchases/merges with another Service Provider (SP2), and all LNP data needs to be consolidated into a single SPID (on the NPAC).  Today, the NPAC requires all active subscriptions to be disconnected, and all pending subscriptions to be cancelled, by NPA-NXX for all NPA-NXXs owned by SP2. Next, SP2 would delete all LRNs, then delete all NPA-NXXs. SP1	High	IIS, FRS	Func Backwards Compatible: NO  After much discussion on the 7/8/98 telecon, it was decided that the scope of this change order is huge, and its frequency of use is undetermined at this point in time (speculation is relatively small).  Additionally, AT&T requested that all SPs look at the possibility of performing some type of database migration/conversion instead of having the NPAC perform all of the updates, then have to broadcast to all SPs. The database migration/conversion could potentially be accomplished by using a new NPAC "bulk download file" to update the local database.	High	High / High

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,,						NPAC	SOA LSMS
		would then have to add the NPA-NXXs and LRNs that were just deleted by SP2. Finally, the pending and activated SVs would need to be "re-created" under the presumption that SP1 is now the code holder for the NPA-NXXs.  The proposed solution with this change order is the NPAC would perform all of this processing "under the sheets", and not require SP1 and SP2 to perform all of these steps.  The issue of notifications (whether to send or suppress) is NOT addressed at this point in time.  (continued)			The current position for this change order is to have a brief discussion at the Wed, 7/15 meeting in Chicago. The group will seek volunteers for a sub-committee to further analyze this change order in the context of how to accomplish a "merger" using today's functionality, and investigate potential solutions using a "bulk download file" approach, and a full NPAC solution with notifications across the interface.  July T&O (Chicago). Beth Watkins (AT&T) agreed to coordinate the first telecon for this sub-committee.  (continued)		
NANC 217 (con't)	Continued	After further analysis it was determined that the current NPAC implementation includes 23 tables that contain a customer SPID. Each will have to addressed (at a business level) to determine correct NPAC processing should the SPID be modified.  The other issues to determine include:  1. length of time to complete this update. 2. which notifications need to be sent out over the SOA interface, since we are modifying numerous objects. 3. what do we do with current Network and Subscription records (update them with new SPID; or create new ones for the new SPID, and move the previous ones to OLD).		hours. In this discussion, ar Participants in (Gustavo), Pa The subcomm SPID to anoth basis). Oct LNPAWC is 10/21, 1p C Nov LNPAW representation 11/23, 1p Cer During the 11 solution would	G (Seattle), a telecon has been scheduled for 9/29 initial telecon, the sub-committee will determined set ground rules for subsequent meetings on the neclude, AT&T (Beth), Bellcore (John), ESI (Jim) acBell (Jackie), and Sprint (Dave). Others are we necessary to a market by market basis, or the respective of the potential of a "partimer (possibly do on a market by market basis, or G (Kansas City), the 9/29 telecon was cancelled. Central. Beth to send out bridge info.  G (Dallas), The 10/21 call did not have any Lockin, so discussion did not get far. The next call is so intral, 2 hours.  1/23 telecon, it was determined that Beth's proposite on the easy to accomplish. Details on the telection of the Dec LNPAWG meeting.	e the scope nis change , GTE (Ge elcome to j al cut" from NPA by NI The make cheed cheduled f	e of the order.  ne), MCI oin.  m one PA  -up call  or Mon,

		Release 4.	0 Change	Orders					
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				Dec LNPAWG (Atlanta), Mass update is the long term solution, but wanted to have short term solution. In the case of MCI and Brooks, they deleted the SV deleted the network data, then put it back out there under the new SPID.  What we looked at for an NPAC manual update, then produce BDD, would require code changes. Plus, BDD would be all records instead of just changed ones. Also, SVs would be modified instead of activated, so the current BDD time range would NOT pick these up.					
NANC 217 (con't)	Continued			mass update of SPID, then or range.  Leave on ope  Jan LNPAWO discuss next s During follow bandwidth (for Feb LNPAWO Refer to R4 CO December 20 a result of the Need and Designition into multiversions being January 200 WG decided to SPID and SPID	G (Atlanta), Beth to set up another telecon (possil	lly update ges within bly end of analysis getings. commitments change or both the Bugle SPID lubscription ge order the or updating	the the time  Jan) to roup,  nts.  rder. As usiness being next the time the		

		Release 4.	0 Change	Orders				
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						NPAC	LSMS	
				update of a SPID and most of the information in this change order would be moved into the new change order. This change order, NANC 217, would be to cover the simple case where a SPID is being completely retired (merger or acquisition).				
NANC 218	Sprint 6/5/1998	Conflict Timestamp Broadcast to SOA  It has been requested that when a subscription gets placed in conflict, that the time that the subscription version was placed into conflict be broadcast in the status attribute value change notifications to the SOA. Currently it is defined in the IIS on page 262 (version 1.8) that NPAC is not required to send the timestamp information. This change would prevent the service provider SOA from having to query the NPAC anytime they need to retrieve a timestamp. This conflict timestamp is needed so that the new service provider knows when the 6-hour timer has expired and so that they can remove it from. Also the presence of this timestamp indicates if the subscription has been placed into conflict before.	Med	IIS	Pure Backwards Compatible: NO Func Backwards Compatible: YES  It was noted that a SOA could work around this issue, by automatically querying the NPAC for the conflict timestamp, anytime the SP receives a conflict status for an SV.  Leave on open list for now.  Refer to R4 Change Orders for current proposed resolution.	Low	Low / N/A	
NANC 219	AT&T 6/5/1998	NPAC Monitoring of SOA/LSMS Associations It has been requested that NPAC Monitoring of SOA and LSMS associations be put into the NPAC SMS at the application (CMIP) layer. The approach suggested by the requestor would be to alarm whenever aborts are received or sent by the NPAC. When these alarms occur, the NPAC Personnel would contact the affected Service Provider to work the problem and ensure the association is brought back up.  From this point forward, this change order will deal with the alarm abort option. The heartbeat abort option is NANC 299.	High	FRS	Pure Backwards Compatible: YES  Sep LNPAWG (Seattle), discussed various options for working the problem of dropped associations (i.e., causes partial failures for the new SP trying to activate).  Options include,  1.) sending a notification to all SPs that "an SP is currently not associated", then another notifications once it is back up, "all SPs associated".  2.) stopping an activation request, because an association is down.  3.) sending a notification to the New SP when an activate is received, that an association is down, "do you still want to activate?".	Low (alarm abort)  Med (heartbe at abort)  High (ops costs for all options)	N/A / N/A	

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						NPAC	SOA LSMS
					NEXT STEP: all SPs should consider issues and potential options for activates during a missing association that will cause a partial failure.		
					Oct LNPAWG (Kansas City), the conversation migrated away from the three options discussed in Seattle, and back to the NPAC proactively monitoring the association. This would require the NPAC to provide an attendant notification that a Service Provider is down, then notifying them of their missing association.		
					(continued)		
NANC 219 (con't)	Continued				So, anytime the NPAC receives an abort from a an NPAC alarm should be triggered, and an M& where NPAC personnel notify the downed SP.  This has been moved into the "Accepted" categ prioritization.  Refer to R4 Change Orders for current propose	ጵP should ory, await	kick in
NANC 227	MCI 8/7/98	10-digit TN Filters (previously know as "Ability to Modify/Delete of Partial Failure SV")  OLD TEXT: The NPAC SMS currently rejects a request to "modify active" or "delete" an SV that has a partial failure status. Nothing can be done to the SV until the discrepant LSMS(s) come back on line, and either recover the broadcast, or accept a re-send from the NPAC.  OLD TEXT: A business scenario arose whereby a partial failure was affecting a customer's main number, and the New SP couldn't do anything to the SV until the partial failure was	High	FRS, GDMO	Func Backwards Compatible: NO  Discussed during 8/12/98 face-to-face T&O meeting (Detroit).  OLD TEXT: It was determined that the business scenario was primarily human error, and the NPAC should NOT be modified to allow a partial failure to go to active, but still have out-of-sync LSMS(s).	High	Med- Low / N/A

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		- Lange ly and			OID TEVT. A weekeround (evollable with	NPAC	SOA LSMS
		NEW TEXT: The NPAC should provide a mechanism that allows 10-digit filters, in order to clean up partial failure SVs that need to be subsequently modified or deleted, by the New SP.  Jun 99, during the Pooling Assumptions walk-thru, four SV requirements were modified, and the functionality was moved into this change order. Basically, the "partial failure/failed" text is moved to this change order. The affected requirements are listed below:  SV-230 Modification of Number Pooling Subscription Version Information – Subscription Data SV-240 Modification of Number Pooling Subscription Version Information – Status Update to Sending SV-270 Modification of Number Pooling Subscription Version Information – Status Update SV-280 Modification of Number Pooling Subscription Version Information – Failed SP List			OLD TEXT: A workaround (available with 1.3 [with the exception of PTO]) would be to temporarily set up a filter for the discrepant LSMS(s), do a re-send which would clear up the failed-SP-List and set the SV to active, then remove the filter.  OLD TEXT: NEXT STEP: all SPs and vendors should evaluate if this is an acceptable solution.  OLD TEXT: Sep LNPAWG (Seattle), this potential M&P work-around has been forwarded to NPAC Operations (Jan Trout-Avery) for further analysis, and will be discussed at the x-regional in New Orleans.  (continued)		
NANC 227 (con't)	Continued	This change order is related to NANC 254.			OLD TEXT: This change order will be left op discussion in New Orleans.  Oct LNPAWG (Kansas City), after discussions the x-reg meeting, it was requested by Service Lockheed use the M&P for "partial failures wh out of service" only.  Jan will be doing an M&P on this, and will acc frequency of this situation. Everyone should b for the M&P is that any other SVs that are com NPA-NXX will NOT be sent to the LSMS. Fro functional perspective, a potential problem is thaving to keep "versions" of versions, when yo that fails, then allow a modify on top of this.	in New Or Providers t ere the cus umulate da e aware tha ing down i om an NPA ne complex	cleans at hat tomer is ta on the at the risk on the C ity of

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						NPAC	SOA LSMS	
					Jim Rooks provided info on this, to state that he is uncomfortal with the modify of a partial failure. We further discussed the potential of a 10-digit filter that would override the existing 6-d filter. This should be the same change order, but will replace the title from modify partial failure to 10-digit filter.  Nov LNPAWG (Dallas), re-capped discussion from KC. Desire this functionality is to have NPAC Personnel perform this activ (of putting up 10-digit filters), and NOT allow SPs to send this over the interface.  This has been moved into the "Accepted" category, awaiting prioritization. The group will flush out the details once this get placed into a specific release.  Jul LNPAWG (Ottawa), no comments on pooling additions.  Refer to R4 Change Orders for current proposed resolution.			
NANC 230	Sprint 8/12/98	Allow a Donor SOA to Create a Port-to-Original on an intra- service provider port The current NPAC SMS functionality does not allow a Donor SOA to create a PTO SV with LNPType = LISP.  The business scenario is that a customer is "home'd" to switch A, then moves down the street and is "home'd" to switch B (still in same rate center, so was LISP-ed to switch B), then moves back up the street (and needs to be re "home'd" to switch A, but is still a working number). In this scenario, the SP should send an LISP PTO create and activate.	High	FRS, IIS, GDMO	Func Backwards Compatible: NO  August T&O (Detroit). This change order was opened to replace its "sister" change order, NANC 223.  NEXT STEP: all SPs and vendors should evaluate if this is an acceptable solution, or if there are any operational issues with sending an LISP PTO.  Sep LNPAWG (Seattle), All SPs are O.K. with this change order.  Jim Rooks will look at this, since there may be an NPAC issue. In some current processing the NPAC needs the LNP type and if it is not available, the NPAC looks at the SPID values, and if they are the same, then	Med	Med / N/A	

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Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution		el of fort		
						NPAC	SOA LSMS		
NANC 232	MetroNet 8/14/98	Web Site for first port notifications Currently all SOAs and LSMSs receive "first port" notifications. A request has been submitted to provide this information on the NPAC Web Site.  Sep LNPAWG (Seattle). This change order was introduced by MetroNet as a means for LTI users to obtain "first port" notifications.  The current process does NOT send this information to the LTI user (unlike SPs that have a CMIP-based SOA), but requires the LTI user to "query" the NPAC for notifications contained in the NPAC notification log (for that specific SP). Currently, this log contains the most recent 25 notifications for that SP. The user may also generate an NPAC report of all notifications for that SP.  The desire is to have these "first port" notifications on the web, similar to the NPA-NXX openings that are on the web today.	High	FRS	the NPAC assumes it is LISP. Jim's point is that there may be an interface change. He will report at the next meeting.  Oct LNPAWG (Kansas City), Jim reported that this will NOT require an interface change. It does, however, require a change to the NPAC processing rules. Some of the changes for Pooling help to minimize changes to the NPAC.  This should be moved into the "Accepted" category, awaiting prioritization  Refer to R4 Change Orders for current proposed resolution.  Pure Backwards Compatible: YES  Sep LNPAWG (Seattle). This change order was discussed by those in attendance. It was agreed that this change order was acceptable, and should be moved to the "Future Release CLOSED" List, and await prioritization from the group.  NOTE: This change order is similar to the existing requirements, R3-10 and R3-11 (Web bulletin board updates of NPA-NXXs and LRNs).  Refer to R4 Change Orders for current proposed resolution.	Low	N/A / N/A		

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						NPAC	SOA LSMS
NANC 249	Sprint 12/9/98	Modification of Dates for a Disconnect Pending SV The NPAC should be changed to allow a Service Provider to modify the CDD (Customer Disconnect Date) and ERD (Effective Release Date) for an SV that has a status of "disconnect pending".	High	FRS, IIS, GDMO	Func Backwards Compatible: NO  The current Service Provider would send a subscriptionVersionModify using an M-ACTION.  subscriptionCustomerDisconnectDate and subscriptionEffectiveReleaseDate would need to be added as modifiable attributes.  A new IIS flow needs to be developed (Subscription Version Modify Disconnect Pending Version Using M-ACTION by a Service Provider SOA).  If the newly modified ERD is the current date or a previous date, the NPAC will follow the "immediate disconnect" flow (6.5.4.1). Otherwise, it's BAU for the future dated ERD (6.5.4.2).  R5-25 needs to be changed to allow for a modification of an SV with a status of disconnect pending.  R5-36 and R5-38.1 needs the CDD and ERD attributes added to the list.  R5-41 and RR5-41.x need to perform exception processing (i.e., NOT send to LSMSs at this time) of modifications where the new ERD is a future date.  (continued)	Low	Med / N/A
NANC 249 (con't)	Continued				New requirements:     NPAC SMS shall reject a modification req     a status of disconnect pending, where the Company is a status of the company is a st		

		Release 4.	0 Change	Orders				
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						NPAC	SOA LSMS	
NANC	LNPA	NPAC Requirements - Subsequent Ports of Active SV with a		FRS,	Jan LNPAWG (Atlanta), group O.K. with this change order. Moto accepted list.  Refer to R4 Change Orders for current proposed resolution.  Func Backwards Compatible: NO High Med-			
254	WG 1/12/99	Failed SP List The Failed SP List should be zeroed out (on the old SV), once the new SV gets activated.  Req 1 – NPAC SMS shall remove a Service Provider from a Subscription Version's Failed SP List, where the Subscription Version's status is Old, once a subsequent port for that TN has started the broadcast of subsequent activity to the LSMSs.  NOTE: For Req 1 above, "subsequent activity" refers to activations, modify actives, disconnects, and PTO of a TN that has been previously ported.  A Service Provider should only be allowed on the Failed SP List for 1 (one) SV for any given TN.  Req 2 – NPAC SMS shall allow a Service Provider to only be		GDMO	Jan LNPAWG (Atlanta). This change order was opened to replace its "sister" change order, NANC 245.  Feb LNPAWG (San Ramon), leave on open list for now. BST evaluating 245 and 254, to see if O.K. with clearing out the Failed List on previous port, when they are the Old SP.  Mar LNPAWG (Denver), BST O.K. with this. Move to accepted category.  This change order is related to NANC 227.  Refer to R4 Change Orders for current proposed resolution.	This is	Low / N/A	
		on the Failed SP List for one Subscription Version, for a given TN, at any given point in time.  A Service Provider should be capable of recovering an SV download, even though the Failed SP List has been cleaned up for the previously active SV.  Req 3 – NPAC SMS shall support the recovery of subscription data for a Service Provider over an NPAC SMS to Local SMS association, for a previously active Subscription Version which contained that given Service Provider on the Failed SP List, then had that given Service Provider removed from the Failed SP List as a result of a subsequent port, all which						

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						NPAC	SOA LSMS
		occurred while that given Service Provider did NOT have an active association to the NPAC SMS.					
NANC 285	LNPA WG 5/12/99	SOA/LSMS Requested Subscription Version Query Max Size A SOA/LSMS request for a Subscription Version query that exceeds the maximum size tunable ("Maximum Subscriber Query"), returns an error message to the SOA.  Similar to the processing in NANC 273, it has been requested the NPAC return SVs up to the max tunable amount instead. The SOA/LSMS would accept this message, then use it's contents to send another query to the NPAC, starting with the next TN, and so on until all SVs are returned to the SOA/LSMS.  It will be up to the SOA/LSMS to manage the data returned from the NPAC and determine the next request to send to the NPAC in order to get the next set of SVs.  The NPAC will continue to return SVs that meet the selection criteria. However, the NPAC will not return a "count" to the SOA/LSMS for number of records that match the selection criteria.  This solution will resolve the problem described in NANC 279 (SOA Resynchronization for Large Ranges), where a problem exists for recovering the SOA for large ranges, because the SV time stamp that the NPAC users for recovery is the same for large ranges.  The example used for NANC 279 was, if all the TNs in the range contain the same time stamp (e.g., 17 minutes and 20 seconds after 3p, 15:17:20), and the number of TNs in the range exceeds the tunable allowed for queries, the SOA cannot recover since the NPAC, for any time range, will respond with an error for maximum TN query reached.	High	FRS, IIS, GDMO	Func Backwards Compatible: NO  June LNPAWG (San Ramon), discussed in conjunction with NANC 279. Group decided to close out 279, and merge the requested functionality into this change order, since this is query functionality issue, and not just a recovery issue.  Jim Rooks will provide additional information on a proposed solution given the inclusion of NANC 279 into this change order.  Jim's response is shown below:  This change order requests the 'more' capability that will be supported by queries in the LTI. This implementation requires 2 changes.  #1, the NPAC must be modified to always return the first n (tunable) records on the SV query. Currently, the NPAC determines that the query will return more than n records and returns an error.  (continued)	Low	Med- High / Med- High
NANC	continued				#2, the service providers should modify their		

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						NPAC	SOA LSMS
285 (con't)					systems to support the following SV query operations to the NPAC:  a. When data is returned from an SV Query and there are exactly n (tunable) records returned, the SP must assume that they didn't get all the data from their query.  b. After processing the first n records, they should send a new query that picks up where the data from the prior query ended.  c. The SV data returned from the NPAC for SV queries will be sorted by TN and then by SVID so a filter can be created to pick up where the prior query ended.  d. For example, if a SOA query to the NPAC returns exactly 150 records and the last SV returned was TN '303-555-0150' with SVID of 1234. The filter used on the next query would be:  All SVs where ((TN > 303-555-0150) OR (TN = 303-555-0150) AND SVID > 1234).  The NPAC does support OR filters.  e. Once the results from the NPAC returns less than 150 records, the SP can assume they received all records in the requested query.  Refer to R4 Change Orders for current proposed resolution.		
NANC 287	AT&T 5/27/99	ASN.1 Change for required field in VersionNewNPA-NXX and VersionNewNPA-NXX-Recovery notification The current ASN.1 has incorrect field definition. The requested change is to make the service-prov-npa-nxx-value of the VersionNewNPA-NXX notification and	Med	ASN.1	Pure Backwards Compatible: NO Func Backwards Compatible: YES  June LNPAWG (San Ramon), this also applies to the recovery notification (in addition to the	Low	Low / Low

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						NPAC	SOA LSMS
		VersionNewNPA-NXX-Recovery notification a required field instead of 'optional'.  Current asn.1:  VersionNewNPA-NXX ::= SEQUENCE {     service-prov-npa-nxx-id NPA-NXX-ID,     service-prov-npa-nxx-effective-time-stamp GeneralizedTime,     service-prov-id ServiceProvId,     access-control LnpAccessControl }  Proposed: VersionNewNPA-NXX ::= SEQUENCE {     service-prov-npa-nxx-id NPA-NXX-ID,     service-prov-npa-nxx-effective-time-stamp GeneralizedTime,     service-prov-id ServiceProvId,     access-control LnpAccessControl }  Current asn.1: VersionNewNPA-NXX-Recovery ::= SEQUENCE {     service-prov-npa-nxx-id NPA-NXX-ID,     service-prov-npa-nxx-value NPA-NXX OPTIONAL,     service-prov-npa-nxx-effective-time-stamp GeneralizedTime,     service-prov-id ServiceProvId }  Proposed: VersionNewNPA-NXX-Recovery ::= SEQUENCE {     service-prov-id ServiceProvId }  Proposed: VersionNewNPA-NXX-Recovery ::= SEQUENCE {     service-prov-npa-nxx-id NPA-NXX-ID,     service-prov-npa-nxx-value NPA-NXX-ID,     service-prov-npa-nxx-id NPA-NXX-ID,     service-prov-npa-nxx-effective-time-stamp GeneralizedTime,     service-prov-id ServiceProvId }			first port notification that is listed in the change order). Update to add recovery notification and review next month.  Jul LNPAWG (Ottawa), it was noted that this is not considered backwards compatible, since it requires a recompile. Move to accepted category.  Refer to R4 Change Orders for current proposed resolution.		
NANC 291	Bell Atlantic/ Sprint 7/7/99	SSN Edits in the NPAC SMS The NPAC SMS should edit and prevent a new Service Provider CREATE message from specifying final Global Title Translations for CLASS, LIDB, CNAM, ISVM MWI, and WSMSC.  Description of Issue:	High	FRS,GDMO	Pure Backwards Compatible: YES  Proposed Change Order: Implement an edit in NPAC that will reject a new SP CREATE message if the message contains a Destination Point Code with a non-zero (000) Subsystem Number for CLASS,	Low	N/A / N/A

		Release 4.	0 Change	Orders			
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						NPAC	SOA LSMS
		There have been instances when the new Service Provider, upon sending the new SP CREATE message to NPAC, has provided final Global Title Translation data for the Destination Point Codes and Subsystem Numbers for CLASS, LIDB, CNAM, and/or ISVM MWI. This final GTT data is broadcasted by NPAC to all applicable subtending service providers in the Region. This has resulted in TCAP routing errors for subtending service providers who do not have route sets built based on final GTT to the new SP.			LIDB, CNAM, ISVM MWI, or Wireless Short Message Service. This edit shall be settable (active or inactive) on a Regional NPAC basis. It shall apply to all DPCs associated with ported and pooled DNs. For 1K block pooling, the NPAC SMS will reject creation of block data containing a non-zero Subsystem Number, whether by NPAC personnel or via the new SP's SOA, if the edit is active.  Jul LNPAWG (Ottawa), lots of discussion. Some SPs using final, but not sure how much of a problem this is creating. In all cases discussed, led to new SP changing SSN to gateway value instead of final value.  Homework for all SPs for next month. Figure out requirement to broadcast final GTT instead of gateway, and willingness to change this approach. SPs will need to substitute final in their own network. SPs should understand that if no arrangement is set up between the providers, then routing errors (to the new SP's customer) will occur. This affect creates, modifies, and mass updates.		
NANC 291 (con't)	continued				Aug LNPAWG (Portland), since the conference bridge was not available at the time this was discussed, the group agreed to postpone the discussion until September (assuming a conference bridge was available at that point in time).  Sep LNPAWG (Chicago), much discussion. A vote 10 (for) to 1 (against) was taken to move this change order into the accepted category.		

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						NPAC	SOA LSMS
					Refer to R4 Change Orders for current proposed resolution.		
NANC 297	Sprint 9/15/99	Sending SV Problem During Recovery If an LSMS is down during the broadcast, and the NPAC SMS has sent out the final retry, the LSMS will not be able to recover this broadcast (either in recovery or once recovery is complete and normal processing continues).  It was discussed that the way to ensure the recovering LSMS gets the sending SVs, is to include any of these SVs. By including these, along with the appropriate download reason; the LSMS would be able to recover sending SVs.  New Requirements:  NPAC SMS shall include Subscription Versions with a status of sending, at the time subscription data recovery is requested by the LSMS.  NPAC SMS shall remove a Service Provider from the Failed SP List of a Subscription Version with a status of sending, even if there are additional retry attempts, at the time subscription data recovery is requested by the LSMS of that Service Provider	High	FRS, GDMO	Pure Backwards Compatible: YES  Sep LNPAWG (Chicago), need to add priority during Oct meeting in KC.  Oct LNPAWG (KC), could have a problem if the SV is sent twice (once for the recovery, and once at the next retry attempt), so the group wants the failed list updated for the recovering SP.  Refer to R4 Change Orders for current proposed resolution.	Med- Low	N/A / N/A

## LTI Change Orders

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						NPAC	SOA LSMS

## **Cancel – Pending Change Orders**

	Cancel - Pending Change Orders						
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution		el of fort
						NPAC	SOA LSMS

**Current Release Change Orders** 

	Current Release Change Orders						
Chg Order	Orig. / Date	Description	Priority	Category	Proposed Resolution	Level of Effort	
#							
						NPAC SOA LSMS	
		See Implemented List for details on Release 3.					

**MR Change Orders** 

	MR Change Orders						
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution		el of Fort
						NPAC	SOA LSMS

## **Summary of Change Orders**

Release # /	Change Orders	Backwards Compatible
Open	NANC 147 – Version ID rollover strategy NANC 334 – Doc Only Change Order for FRS: Clarification needed in Item L-11.0 G in Table C-7 of Appendix C in the FRS NANC 335 – Doc Only Change Order for GDMO: Update to explain how the Primary/Secondary Service Provider situation works with Range notifications NANC 336 – Doc Only Change Order for IIS: Flows B.4.4.3 and B.4.4.6 have typos that need to be Corrected NANC 337 – Doc Only Change Order for IIS: Flows B.8.3 note at the beginning of text needs to be updated NANC 338 – Doc Only Change Order for FRS: Add requirement for NPAC SMS sending subscriptionVersionDonorSP-DisconnectDate notifications to the Donor SP SOA when a Number Pool Block De-Pool occurs and update the note in requirement RR5-85. NANC 339 – Doc Only Change Order for IIS: Flow B.4.4.24 – Update to include the Donor Disconnect notifications that get sent to the Donor SP SOA when a Number Pool Block De-Pool occurs NANC 340 – Doc Only Change Order for IIS: Update Appendix A NANC 341 – Doc Only Change Order for GDMO: Section 7.0 LNP Subscription Version Modify Action – Clarification of allowable modify activities for subscription versions with status of 'conflict' NANC 342 – Doc Only Change Order for IIS: Flows B.5.1.5 text at end of flow needs clarification NANC 343 – Doc Only Change Order for IIS: Exhibit 12 of IIS section 4.2.2 does not reflect all filtering operations currently supported by the NPAC SMS. NANC 344 – Doc Only Change Order for GDMO: Update GDMO to more clearly explain information in range notifications.	Compatible
Accepted	ILL 5 – Round Robin LSMS  NANC 151 – TN and Number Pool Block addition to notifications  NANC 169 – Delta Download File Creation by Time Range for SVs  NANC 193 – TN Processing during NPAC SMS NPA Split Processing  NANC 246 – NPA-NXX Filters for Bulk Data Download Files of SVs  NANC 299 – NPAC Monitoring of SOA and LSMS Associations via Heartbeat  NANC 300 – Resend Exclusion for Number Pooling  NANC 311 – Query Message of SP Association Status  NANC 312 – Different User Levels on the LTI  NANC 316 – Change the NSAP Field Size Declaration in ASN.1 – ASN.1 Recompile  NANC 319 – NPAC Edit to Ensure NPA-NXX of LRN is in Same LATA as NPA-NXX of Ported TN  NANC 321 – NPAC Edit of Service Provider Network Data – NPA-NXX Data	

	NANC 322 – Clean Up of Failed SP List based on Service Provider BDD Response File NANC 323 – Mass Update of SPID (Partial)	
Next Documentation Release	NANC 332 – Doc Only Change Order for FRS: Clarification of requirement RR5-42.1 NANC 333 – Doc Only Change Order for GDMO & IIS: Clarification needed in the GDMO & two IIS Flows for the subscriptionVersionRangeObjectCreation notification (one of the new range notifications in change order NANC 179 for NPAC SMS Release 3.1).	
Release 3.1	NANC 179 – TN Range Notifications NANC 240 – No cancellation of SVs based on expiration of T2 timer NANC 294 – Changing Due Date Edit Functionality in the NPAC SMS for 7p on Due Date Problems NANC 305 – R3 ASN.1 documentation-only updates NANC 324 – IIS Document Only Change – Flow B.5.4.7.3: Subscription Version Disconnect With Effective Release Date NANC 325 – GDMO Document Only Change – 4.0 LNP Subscription Version Cancel Action NANC 326 – IIS Document Only Change – Flow B.5.6: Subscription Version Query NANC 327 – FRS Document Only Change – Update Appendix C – System Tunables NANC 328 – Tunable for Long and Short Business Days NANC 329 – Prioritization of SOA Notifications NANC 330 – IIS Document Only Changes NANC 331 – IIS Document Only Changes - Add missing flow for Subscription Version Create: Failure to Receive Response from New SOA after "Initial Concurrence Window" Expiration	
Release 4.0	ILL 130 – Application Level Errors (ASN.1 impact)  NANC 138 – Definition of Cause Code Values-REVISITED  NANC 179 – TN Range Notifications  NANC 187 – Linked Action Replies  NANC 191 – DPC/SSN Value Edits  NANC 192 – NPA Split NPAC SMS Load File  NANC 200 – Notification of NPA Split  NANC 217 – Mass Update of SPID  NANC 218 – Conflict Timestamp Broadcast to SOA  NANC 219 – NPAC Monitoring of SOA/LSMS Associations  NANC 227 – 10-digit TN Filters (previously know as: "Ability to Modify/Delete of Partial Failure SV")  NANC 230 – Allow a Donor SOA to Create a Port-to-Original on an intra-service provider port  NANC 232 – Web Site for first port notifications  NANC 240 – No cancellation of SVs based on expiration of T2 timer  NANC 249 – Modification of Dates for Disconnect Pending SV	

	NANC 254 – NPAC Requirements – Subsequent Ports of Active SV with a Failed SP List NANC 285 – SOA Requested Subscription Version Query Max Size NANC 287 – ASN.1 Change for required field in VersionNewNPA-NXX and VersionNewNPA-NXX-Recovery notification NANC 291 – SSN Edits in the NPAC SMS NANC 294 – Changing Due Date Edit Functionality in the NPAC SMS for 7p on Due Date Problems NANC 297 – Sending SV Problem During Recovery	
LTI		
Cancel-Pending		
Current Release	See Implemented List for details on R3	
MR		