NANC CHANGE ORDER SUMMARY FOR NPAC SMS FUNCTIONALITY

Rev: 80 to be used for April 2001 (Portland, ME) meeting

04/04/01

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Open Change Orders

		·	Change Ord				
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution		el of Cort
						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 327	NeuStar 3/19/01	FRS Document Only Change – Update Appendix C – System Tunables Currently the Subscription Tunables Table in Appendix C has		FRS	Proposed Resolution: Remove the Short Business Days and Long Business Days items from the Subscription Tunables Table in Appendix C of the FRS.	N/A	N/A / N/A

_	Ovia /			ders			
#	Orig. / Date	Description	Priority	Category	Proposed Resolution	Level of Effort	
						NPAC	SOA LSMS
		Short Business Days and Long Business Days listed as tunables. Per requirements RR3-11 and RR3-30 this is incorrect. Requirement RR3-11 states "NPAC SMS short business days shall be Monday through Friday excluding NPAC operations-defined holidays". Requirement RR3-30 states "NPAC SMS long business days shall be Monday through Saturday excluding NPAC operations-defined holidays".					

			Open Cl	nange Or	ders				
Chg Order #	Orig. / Date	Descriptio	n	Priority	Category	Propo	sed Resolution		el of fort
								NPAC	SOA LSMS
NANC 327 (cont'd)	Current Tab	le:	SUBSCE	RIPTION	TUNABLE	ES			
			Tunable Name	Default Value	Units	Valid Range			
			Long Initial Concurrence Window	9	business hours	1-72			
			The hours subsequent to the initially created by which are expected to authorize the Provider port. (T1 timer)	both Service	e Providers usi	ing long timers			
			•••						
			Long Business Day Start Time	TBD	hh:mm	00:00 - 24:00			
			Parameter tunable to the v long business days.	alue specifi	ed by the conti	racting region for			
			Short Business Days	Monday – Friday		Monday – Sunday			
			The business days availab business days.	le for Servic	ce Providers us	sing short			
			Long Business Days	Monday – Sat.	Days	Monday - Sunday			
			The business days availab business days.	le for Servic	ce Providers us	sing long			
	(continued)								

			Open C	hange Or	ders				
Chg Order #	Orig. / Date	Description	on	Priority	Category	Propos	sed Resolution		el of fort
								NPAC	SOA LSMS
NANC 327 (cont'd)	Revised Ta	ble:	SUBSCI	RIPTION	TUNABLI	ES			
			Tunable Name	Default Value	Units	Valid Range			
			Long Initial Concurrence Window	9	business hours	1-72			
			The hours subsequent to t initially created by which are expected to authorize Provider port. (T1 timer)	both Service	e Providers us	ing long timers			
			Long Business Day Star Time	t TBD	hh:mm	00:00 - 24:00			
			Parameter tunable to the vlong business days.	alue specifi	ed by the cont	racting region for			
			Short Business Days	Monday - Friday		Monday — Sunday			
			The business days availab	ole for Service	ee Providers u	sing short			
			Long Business Days	Monday – Sat.	- Days	Monday - Sunday			
			The business days availab	ole for Service	ee Providers u	sing long			
NANC	Wireless	Tunable for Long Business Days		High	FRS	Pure Backwards C	Compatible: Yes	Low	N/A /

		Open C	hange Or	ders			
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution		el of fort
						NPAC	LSMS
328	Ops Team 3/20/01	Business Need: Currently, per RR3-30 in the FRS, the NPAC SMS has Long Business Days defined as Monday through Saturday excluding NPAC operations-defined holidays. This means that short timers only run Monday through Saturday. Wireless Service Providers need short timers to run on Sundays as well so they can port in a 2 ½ hour window on all days of the week. To meet this need Long Business Days need to be Monday through Sunday. Description of Change: Wireless Service Providers are requesting that Long Business Days be defined as a tunable with a default value of Monday through Sunday. Requirements: Req 1 Long Business Days Tunable Parameter NPAC SMS shall provide a Long Business Days tunable parameter that defines the days of the week that are valid for operations involving business time calculation excluding NPAC operations-defined holidays. Req 2 Long Business Days Tunable Parameter – Default Value NPAC SMS shall default the Long Business Days tunable parameter to Monday through Sunday. Req 3 Long Business Days Tunable Parameter – Valid Values NPAC SMS shall use days of the week as valid values for the Long Business Days tunable parameter.					N/A

Accepted Change Orders

		Accepted	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

		Accepted	Change C	Orders			
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution		el of fort
						NPAC	SOA LSMS
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 range window, but the Activation was prior to the specified 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 name. 2. Need to capture all SV activity (activation, modification, disconnect) into the file, when doing time range. (continued)	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 NPAC SMS implementation. Delete Pending This change order was re-opened for discussion during the Dec '98 LNPAWG meeting. Dec LNPAWG (Atlanta), verify start and end timestamps embedded in filename. Update documentation to state Activation Broadcast Complete Timestamp is used for comparison. 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.	Med	N/A / N/A
NANC 169 (con't)	Continued	For #1 (new words in <i>larger print italics</i>), in FRS Appendix 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	PA-NXX		(continued) Jan LNPAWG (Atlanta), proposed changes wer will include proposed changes in next version of management list. Feb LNPAWG (San Ramon), updated multiple	of the char	ige

		Accepted	Change (Orders		
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution	Level of Effort
						NPAC SOA LSMS
		where a time range is NOT selected, will be in the form NPANXX-NPANXX.DD-MM-YYYYHH24MISS The NPANXX-NPANXX values map to the selection criteria at stamp maps to the current time (Central Time - standard/a). The Subscriptions file given in the example would be named: 303123-303125.10-13-1996081122 In the case where a time range is selected, the file not the Subscriptions download file with a time range, with format: NPANXX-NPANXX.DD-MM-YYYYHH24MISS. DD-1YYYYHH24MISS. DD-1YYYYHH24MISS. DD-1YYYYHH24MISS. TIMEZ The NPANXX-NPANXX values map to the selection of the first time stamp maps to the current time (when the generated), the second time stamp maps to the start of range, and the third time stamp maps to the end time All three time stamps are represented in Central Time (standard/daylight), even though the Subscription Veare stored in the NPAC in Greenwich Mean Time. The TIMEZONE value will contain one of two values, eit or CDT, depending on the current time zone in the Continued to the Subscriptions file with a time range given in the would be named: 303123-303125.10-13-1996081122.10-10-19960000000.10-12-1996115959.CST (continued)	and the time laylight). Ime for ill be in MM- CONE criteria, the file is time crange. The range control in the file is the crange control in the criterial in the crange.		change order (both file name and requirements NOTE: The baseline for this change order is If this change order gets merged into R3, need to reflect the EDR Flag, and filter out LNP Type 521). ACTION ITEM: Jim will look at the broadcast SV Object, and how the NPAC Data Model att the broadcast to the LSMSs. CLOSED, Mar 99. Activations are using the ATimestamp in SV Data Model. Mar LNPAWG (Denver), reviewed updated we will be reviewed in Apr. Apr LNPAWG (DC), reviewed updates. Move Refer to R4 Change Orders for current propose	R2. Therefore, when change req 9 to of POOL (ref. SV-st timestamp for the ributes match up to activation Broadcast ords. Modifications to Accepted List.
NANC 169 (con't)	Continued	Also for #1, no functional requirements or IIS flows are affecte For #2, new requirements are proposed (see below)	d by this cha	nge.		

	Accepted Change Orders									
Chg Order #	Orig. / Date		Description	Priority	Category	Proposed Resolution	Leve Eff	el of Fort		
							NPAC	SOA LSMS		
		Req 1	Subscription Version Information Bu			•				
			PAC SMS shall allow NPAC personnel to request a bulk data download file for Subscription Version data via the NPAC lministrative Interface. (existing NPAC SMS functionality)							
		Req 2 Subscription Version Information Bulk Download File Creation – Selection Criteria								
		or Latest Vi	JPAC SMS shall include the Requesting Service Provider, Active/Disconnect Pending/Partial Failure Subscription Versions Only r Latest View of Subscription Version Activity Choice, Time Range in Central Time (standard/daylight), and TN Range as election Criteria fields for the Subscription Version bulk data download file via the NPAC Administrative Interface.							
		Req 3	Subscription Version Information Bu Subscription Versions Only or Latest			ation – Active/Disconnect Pending/Par Version Activity Choice	tial Failu	ıre		
			shall allow NPAC Personnel to select ein of Subscription Version Activity, and shall				ons Only o	or		
		Req 4	Subscription Version Information Bu Failure Subscription Versions Only C		oad File Crea	ation – Data in Active/Disconnect Pend	ding/Part	ial		
			shall use the <i>Active/Disconnect Pending/I</i> th a status of either Active, Disconnect F							
		(continued)								
NANC 169 (con't)	Req 5	Subscrip Choice	tion Version Information Bulk Downlo	oad File C	reation – Da	ta in Latest View of Subscription Vers	ion Activ	rity		
	order to o TN in the	capture activa Subscription	the Latest View of Subscription Version Actuation, modification, and deletion transactors. Version Bulk Data Download file, for a codification) within the specified time ra	ctions for S given NP.	ubscription '	Version data, but only include the latest	instance	of the		

			Accepted	Change (Orders				
Chg Order #	Orig. / Date	Description	_	Priority	Category	Proposed Resolution	Leve Eff		
							NPAC	SOA LSMS	
	Req 6	Subscription Version Information	n Bulk Downlo	ad File C	reation – Tir	ne Range Fields			
	Range en					entral Time (standard/daylight), and the for Subscription Version data that were			
	Req 13	Subscription Version Information	n Bulk Downlo	oad File C	reation – Tir	ne Range Fields and SV Data Model			
	NPAC SMS shall use the Start and End Time Range entry fields to include Subscription Version data, based on the Activation Broadcast Time Stamp, Modify Broadcast Time Stamp, and Disconnect Broadcast Time Stamp, in the NPAC's Subscription Version Data Model, when generating the file for the <i>Latest View of Subscription Version Activity</i> selection.								
		Subscription Version Information IS shall use the first TN Range entry Subscription Version data.				I Range Fields ne second TN Range entry field as an inc	clusive er	nding	
	(continue	d)							
NANC 169 (con't)	Req 8 NPAC SM	Subscription Version Information IS shall edit the selection criteria com				lection Criteria Combinations			
		Time Rai	nge TN Range						
	Partial Fa Latest Vie Such that	sconnect Pending/ ilure SVs Only Rejected w of SV Activity Required a combination of: with a Time Range shall be rejected	Optional Optional						

	Accepted Change Orders								
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution	Level of Effort			
						NPAC SOA LSMS			
	• Latest • TN Ra	t View shall require a Time Range. ange shall be optional for both Active and Latest View	W.						
	Req 9	Subscription Version Information Bulk Data De	ownload –	Subscription	on Version Results				
	NPAC SN SMS.	AS shall provide a bulk data download file, based on	the selecti	on criteria, t	hat contains all Subscription Versions in	the NPAC			
	Req 10	Subscription Version Information Bulk Data De	ownload -	Subscription	on Version Results Sort Order				
	NPAC SN	NPAC SMS shall sort the Subscription Version Bulk Data Download file, in ascending order based on the value in the TN attribute.							
	(continue	ed)							
NANC 169	Req 11	Subscription Version Information Bulk Data De	ownload –	Filters for S	Subscription Versions				
(con't)	NPAC SN	AS shall apply NPA-NXX Filters to Subscription Vers	ions in the	creation of b	oulk data download files.				
	Req 12	Subscription Version Information Bulk Data De	ownload -	FTP Sub-D	irectory				
	NPAC SM	AS shall automatically put the bulk data download file the creation of the bulk data download file.			•	SPID, that			
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.	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.	High + N/A / N/A			

		Accepted	Change (Orders			
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution		el of fort
						NPAC	SOA LSMS
		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.			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?		
NANC 193 (con't)	Continued			What is the N If NPAC splir NXX not in s After reviewi act as if the s dialing. A matrix of a It was discuss	(continued) es it take for NPAC/SOA/LSMS to split an NPA- IPAC behavior for recovery spanning time before its starting at midnight and SOA sends new NPA- plit what would happen? Ing the above questions. It was determined that to plit had not occurred during split processing prior Inswers received above has been created. Is seed that this requirement would have to be imple IPAC vendors. This requirement would shortent	e & after P NXX for a he NPAC s r to permis	should ssive

		Accepted	Change (e Orders				
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution		el of Fort	
						NPAC	SOA LSMS	
NANC	National	NPA-NXX Filters for Bulk Data Download files of SVs	Low	and documen a request sent when an SOA start, how sho IIS flows for NPAC SMS to of PDP it will portable NPA requests after reflect the new	coccur for the change of an NPA. It was requested to no behavior in the following situations: When the before the splits after the split start, how should a or LSMS receives a request sent before the split ould it respond? The error scenarios will be created. If an active is reported by the split will be rejected. If the old SP is real to be treated 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 before w NPA-NXX for subscription versions involved as finalized on the 5/22 T&O call. Pure Backwards Compatible: YES	the NPAC of the responding the served by the served after the served after the served after the served. Do not perform the served th	receives ? Also split he r the end a valid wnload uld	
246	Number Pooling Sub- Committe e 11/19/98	incorporate the filters when generating the SV BDD files. 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.			Dec LNPAWG (Atlanta), accepted as is. However, low priority. December 2000 Meeting: This change order had been merged into NANC 169. At the December 2000 LNPA WG meeting it was 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.		N/A	
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	High	FRS, IIS, GDMO, ASN.1	Func Backwards Compatible: NO 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	Med	Med -High / Med - High	

		Accepted	Change (Orders			
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution		el of fort
						NPAC	SOA LSMS
		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.			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".		
NANC 299 (con't)	continued				(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 cancelpending.		
					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		

		Accepted	Change (Orders			
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution		el of fort
						NPAC	SOA LSMS
					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- 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).		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 should be implemented or closed.	Med	Med / N/A
NANC 312	Nextlink 6/14/00	Different User Levels on the LTI Provide two user security 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	LNPA	Change the NSAP Field Size Declaration in ASN.1 – ASN.1	?LOW	ASN.1	Func Backwards Compatible: NO	???	???

		Accepted	Change C	Orders			
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution		el of fort
						NPAC	SOA LSMS
316	WG 8/16/00	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)) }			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 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		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 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	???	N/A / N/A

		Accepted	Change (Orders			
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution		el of fort
						NPAC	SOA LSMS
		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.			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 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	???	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 (Orders					
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						NPAC	SOA LSMS		
		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)	assignee to populate the data. The introduction of an NPA edit function, to validate that an NPA-NXX input is to network data associated assignee to populate the data.						PAC A-NXX eer is validation		
		Detailed requirements are as follows: 1. The NPAC will reject an NPA-NXX network data entry attempt if the NPA involved is not encompassed by the NPAC region to which the data is being submitted.							
		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	ll be maintai	ned by NPAC p	personnel for each regional NPAC.				
		4. The NPAC will obtain information on new NPAs from the I	ERG.						
		5. The change order would be implemented on a regional basis	-						
NANC 322	LNPA WG	Clean Up of Failed SP Lists based on Service Provider BDD Response File	???	FRS	Pure Backwards Compatible: Yes	???	N/A / ??		

		Accepted	Change (Orders			
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						NPAC	SOA LSMS
	12/13/00	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.			January 2001 meeting: Accepted		
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	???/???

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Next Documentation Release Change Orders

		Next Documentation					
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						NPAC	SOA LSMS
NANC 305 NANC 324	CMA 1/24/00 AT&T 01/25/01	R3 ASN.1 documentation-only updates 1. SystemType ::= ENUMERATED { soa(0), local-sms(1), soa-and-local-sms(2), value not supported 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". 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.		ASN.1	Pure Backwards Compatible: YES February 2001 meeting: Accepted	N/A N/A	N/A / N/A
NANC 325	AT&T 01/25/01	Currently it states M-EVENT-REPORT subscriptionVersionDonorSP- DisconnectDate It should be M-EVENT-REPORT subscription VersionStatusAttributeValueChange 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.		GDMO	February 2001 meeting: Accepted	N/A	N/A / N/A

		Next Documentation	n Release	Change Or	ders		
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution		el of fort
						NPAC	SOA LSMS
		Current text:					
		subscriptionVersionCancelBehavior BEHAVIOUR					
		Postconditions: The service provider has set the version status 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		IIS	February 2001 meeting: Accepted	N/A	N/A / N/A
		should contain "subscriptionVersionId".					
		Currently it states:					
		The query return data includes:					
		subscriptionTN (SOA, LSMS) subscriptionLRN (SOA, LSMS)					

		Next Documentation	on Release	Change Or	ders		
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution		el of fort
						NPAC	SOA LSMS
		subscriptionNewCurrentSP (SOA, LSMS) Change to: The query return data includes: subscriptionVersionId (SOA, LSMS) subscriptionTN (SOA, LSMS) subscriptionLRN (SOA, LSMS) subscriptionNewCurrentSP (SOA, LSMS)					

Release 4.0 Change Orders

		Release 4.0	O Change O				
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
NANC 138	Continued				Awaiting sizing from NPAC vendors, and valid functionality (reference existing requirements)		ellation

		Release 4.	0 Change	Orders				
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						NPAC	SOA LSMS	
(cont.)		RR5-36 should be renumbered to RR5-36.2.	`		to conflict.	-	-	
		RR5-36.1 Cancel Subscription Version – Cause Code for New Expiration	SP Timer		SOA vendors heard from to date do not have a cause code not being present.	problem w	ith the	
		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	to conflict		This is an "OLD" Release 2.0 change order, that into the "Accepted" category, awaiting prioritize	"OLD" Release 2.0 change order, that has been naccepted" category, awaiting prioritization		
		acknowledged cancellation after the Cancellation-Final Concur Window.	rence		Refer to R4 Change Orders for current propose	d resolutio	n.	
		2 will be the value defined for the "NPAC SMS Automatic Con Cancellation" cause code.	flict from					
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.	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.	Med	Med- High / N/A	
		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.			SPs should be discussing the downsized version internally.			
					Refer to R4 Change Orders for current proposed resolution.			
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.	High	FRS, IIS, GDMO	Func Backwards Compatible: NO Related to NANC 186 and NANC 183.	Med	Med / Med	
		Sep 99 LNPA-WG (Chicago), it was requested to merge the NANC 186 text into this change order.			Actions that were identified as issues were the network and subscription version recovery actions. It is suggested that service providers			
		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.			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.			

		Release 4.	0 Change	Orders			
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						NPAC	SOA LSMS
					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.		
NANC 191	Ameritech 1/19/1998		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	Low	N/A / N/A

		Release 4.	0 Change	Orders			
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution		el of fort
						NPAC	SOA LSMS
					proposed resolution.		
NANC 192	T&O Conferenc e Call 1/23/1998	NPA Split NPAC SMS Load File It was requested that a file be used to load NPA Split information into the NPAC SMS. This would prevent manual data entry that could introduce errors when entering the NPA Split information.	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. 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.	Med	N/A / N/A
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	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	High	High / High

		Release 4.	0 Change	Orders			
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						NPAC	SOA LSMS
		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 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.			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. 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, and Participants in (Gustavo), Participants in (Gustavo), Participants in the subcomm SPID to anoth basis).	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 nuclude, AT&T (Beth), Bellcore (John), ESI (Jim) acBell (Jackie), and Sprint (Dave). Others are we mittee will also talk about the potential of a "particler (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.	e the scopinis change , GTE (Geelcome to just all cut" fro	e of the order. ene), MCI join. m one PA

		Rele	ease 4.0 Change	Orders		
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution	Level of Effort
						NPAC SOA LSMS
NANC 217 (con't)	Continued			representation 11/23, 1p Centilization would available at the Dec LNPAWO have short tendeleted the new What we look require code of ones. Also, S time range would continued) Current solution mass update of SPID, then continued. Leave on open Jan LNPAWO discuss next s During follow bandwidth (for Feb LNPAWO Refer to R4 Continued)	d not be easy to accomplish. Details on the tele e Dec LNPAWG meeting. G (Atlanta), Mass update is the long term solution mesolution. In the case of MCI and Brooks, the twork data, then put it back out there under the ed at for an NPAC manual update, then product changes. Plus, BDD would be all records instead by would be modified instead of activated, so the bould NOT pick these up. The control of this change order, or having the NPAC interminent eate appropriate BDD files that capture the chain list for now. G (Atlanta), Beth to set up another telecon (possion of the control of the control of the change of the change of the change order, or having the NPAC interminent eate appropriate BDD files that capture the change of the change order, or having the NPAC interminent eater appropriate BDD files that capture the change of the change of the change of the change order, or having the NPAC interminent eater appropriate BDD files that capture the change of the change	osed short term econ will be on, but wanted to ey deleted the SVs, new SPID. e BDD, would ad of just changed the current BDD by ons are the actual ally update the nges within the time ibly end of Jan) to 7 analysis group, etings. commitments.

		Release 4.	0 Change	Orders			
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution		el of fort
						NPAC	SOA LSMS
				Need and Despit into mulversions bein January 200 WG decided SPIDs. A new update of a Smoved into the	e discussion additional information was added to scription of Change to cover the situation of a sirtiple SPIDs or a portion of a service provider's sig moved to another SPID. 1 meeting: After much discussion on this change that it would be best to have two change orders for change order, NANC 323, would be created to PID and most of the information in this change or new change order. This change order, NANC imple case where a SPID is being completely reference.	ge order the or updating cover the order would 217, would	being a LNPA g of partial d be d be used
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.	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	Low (alarm abort) Med (heartbe at abort)	N/A / N/A

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						NPAC	SOA LSMS
		From this point forward, this change order will deal with the alarm abort option. The heartbeat abort option is NANC 299.			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?". 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.	(ops costs for all options)	
					(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" categorioritization.	ory, await	ing
					Refer to R4 Change Orders for current propose	d resolutio	on.
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,	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	High	Med- Low / N/A

		Release 4.	0 Change	Orders			
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		or accept a re-send from the NPAC.			business scenario was primarily human error,	NPAC	SOA LSMS
		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 resolved. 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 – Status Update SV-280 Modification of Number Pooling Subscription Version Information – Failed SP List			and the NPAC should NOT be modified to allow a partial failure to go to active, but still have out-of-sync LSMS(s). 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 whout of service" only. Jan will be doing an M&P on this, and will acc frequency of this situation. Everyone should be	in New Or Providers t ere the cus umulate da	rleans at hat tomer is

		Release 4.	0 Change	Orders				
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution	Level of Effort		
					For the Me Die that our other CVs that one our	NPAC SOA LSMS		
					for the M&P is that any other SVs that are coming down in the NPA-NXX will NOT be sent to the LSMS. From an NPAC functional perspective, a potential problem is the complexity of having to keep "versions" of versions, when you have an activate that fails, then allow a modify on top of this.			
					Jim Rooks provided info on this, to state that he is uncomfortable with the modify of a partial failure. We further discussed the potential of a 10-digit filter that would override the existing 6-diffilter. 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 of this functionality is to have NPAC Personnel perform this activity (of putting up 10-digit filters), and NOT allow SPs to send this over the interface.			
					This has been moved into the "Accepted" categorioritization. The group will flush out the detaplaced into a specific release.			
					Jul LNPAWG (Ottawa), no comments on pooling	ng additions.		
					Refer to R4 Change Orders for current propose	d 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.	Med Med / N/A		

		Release 4.	0 Change	Orders			
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						NPAC	SOA LSMS
					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 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.		
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.	High	FRS	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

		Release 4.	0 Change	Orders			
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution		el of fort
·						NPAC	SOA LSMS
		The desire is to have these "first port" notifications on the web, similar to the NPA-NXX openings that are on the web today.					
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: 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.	Med / High	?/N/A (? depends on implem entation)
NANC	Continued			Upon expirat	ion of the T3 timer before new SP create message	e is receive	ed by

		Release 4.	0 Change	Orders			
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution		el of fort
						NPAC	SOA LSMS
240 (con't)				NPAC, the NPAC shall: 1. cancel the pending SV, and 2. send notification to both old SP and new SP that pending SV is canceled d missing new SP create. Nov LNPAWG (Dallas), spirited discussion by the group. One thing to keep mind that if we determine we do NOT want the NPAC to auto cancel at the expiration of T2 (and want some later date), then we need to separate this fro the T2 timer. Need to add the option that we may need to incorporate this au cancel into some type of housekeeping, and not have it scheduled like today' and T2 timers. Move to accepted, even though the words are still very uncertain, we haven't decided on the actual solution, and we need to perform further analysis. The option proposed by MCI is just one of several potential options that need to hashed out when this change order gets prioritized to a specific release.			
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	Change Orders for current proposed resolution. Func Backwards Compatible: NO The current Service Provider would send a subscription Version Modify using an M-ACTION. subscription Customer Disconnect Date and subscription Effective Release Date 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	Low	Med / N/A

		Release 4.	0 Change	Orders			
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution		el of Fort
						NPAC	SOA LSMS
					"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)		
NANC 249 (con't)	Continued				New requirements: 1. NPAC SMS shall reject a modification req a status of disconnect pending, where the C		
					Jan LNPAWG (Atlanta), group O.K. with this c to accepted list.	hange ord	er. Move
					Refer to R4 Change Orders for current propose	d resolutio	n.
NANC 254	LNPA WG 1/12/99	NPAC Requirements - Subsequent Ports of Active SV with a 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.		FRS, GDMO	Func Backwards Compatible: NO 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	High	Med- Low / N/A
		NOTE: For Req 1 above, "subsequent activity" refers to activations, modify actives, disconnects, and PTO of a TN that has been previously ported.			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.		

		Release 4.	0 Change	Orders			
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution		el of fort
						NPAC	SOA LSMS
		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 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 occurred while that given Service Provider did NOT have an			Move to accepted category. This change order is related to NANC 227. Refer to R4 Change Orders for current proposed resolution.		
NANC 285	LNPA WG 5/12/99	active association to the NPAC SMS. 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.	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'	Low	Med- High / Med- High

		Release 4.	0 Change	Orders			
Chg Order #	Orig. / Date		Priority	Category	Proposed Resolution		el of fort
						NPAC	SOA LSMS
		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			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)		
NANC 285 (con't)	continued	respond with an error for maximum TN query reached.			 #2, the service providers should modify their 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: 		

	Release 4.0 Change Orders									
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution		el of Fort			
						NPAC	SOA LSMS			
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 VersionNewNPA-NXX-Recovery notification a required field instead of 'optional'. Current asn.1: VersionNewNPA-NXX ::= SEQUENCE { service-prov-npa-nxx-value 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-value NPA-NXX-ID, service-prov-npa-nxx-value NPA-NXX, service-prov-npa-nxx-effective-time-stamp GeneralizedTime, service-prov-npa-nxx-effective-time-stamp GeneralizedTime, service-prov-lpa-nxx-effective-time-stamp GeneralizedTime, service-prov-lpa-nxx-effective-time-stamp GeneralizedTime, service-prov-ld ServiceProvId, access-control LnpAccessControl } Current asn.1:	Med	ASN.1	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. Pure Backwards Compatible: NO Func Backwards Compatible: YES June LNPAWG (San Ramon), this also applies to the recovery notification (in addition to the 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.	Low	Low / Low			

		Release 4.	0 Change	Orders			
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution		el of fort
						NPAC	SOA LSMS
		VersionNewNPA-NXX-Recovery ::= SEQUENCE { service-prov-npa-nxx-id NPA-NXX-ID, service-prov-npa-nxx-value NPA-NXX OPTIONAL, service-prov-id ServiceProvId } Proposed: VersionNewNPA-NXX-Recovery ::= SEQUENCE { service-prov-npa-nxx-id NPA-NXX-ID, service-prov-npa-nxx-value NPA-NXX, service-prov-npa-nxx-effective-time-stamp GeneralizedTime, service-prov-id ServiceProvId					
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: 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.	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 nonzero (000) Subsystem Number for CLASS, 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	Low	N/A / N/A

		Release 4.	0 Change	Orders			
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution	1	el of fort
						NPAC	SOA LSMS
NANC	Continue				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.		
NANC 294	LNPA WG 8/11/99	Changing Due Date Edit Functionality in the NPAC SMS for 7p on Due Date Problems Service Providers involved in last minute emergency porting 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	High	FRS, IIS, GDMO	Refer to R4 Change Orders for current proposed resolution. Pure Backwards Compatible: YES Aug LNPAWG (Portland), the group talked 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")	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				
NANC 297	Sprint 9/15/99	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). 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	High	FRS, GDMO	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). 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				

	Release 4.0 Change Orders								
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution		el of fort		
						NPAC	SOA LSMS		
		Service Provider.							

LTI Change Orders

	LTI Change Orders										
Chg Order #	Orig. / Date	Description	Priority	Category	Proposed Resolution		el of fort				
						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					
						1						

Current Release Change Orders

	Current Release Change Orders									
Chg Order #	Orig. / Description Date		Priority	Category	Proposed Resolution		el of fort			
						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	Level of Effort					
						NPAC	SOA LSMS				

Summary of Change Orders

Release # / Target Date	Change Orders	Backwards Compatible
Open	NANC 147 – Version ID rollover strategy NANC 327 – FRS Document Only Change – Update Appendix C – System Tunables NANC 328 – Tunable for Long Business Days	
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 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	
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	

A COV	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		

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