North American Numbering Council (NANC) Inter-Service Provider LNP Operations Flows

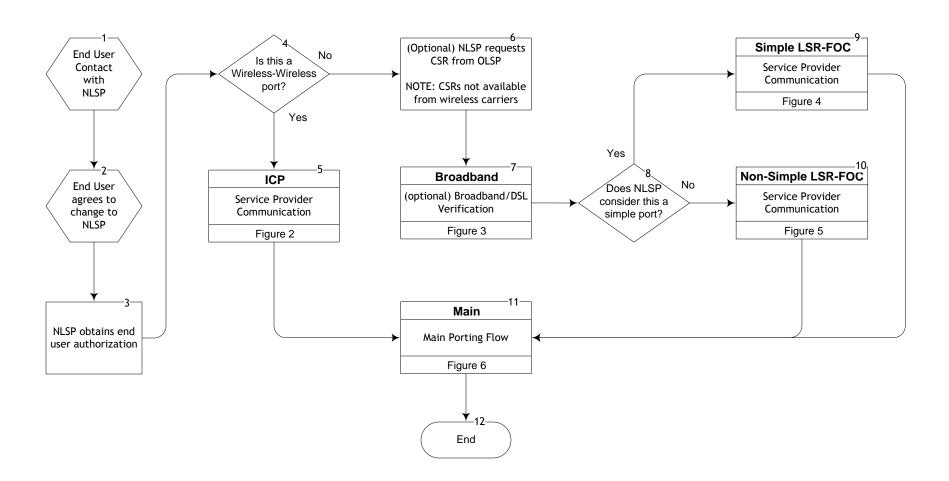
NOTE: For a more detailed description of each process step within these flows, please refer to the accompanying Inter-Service Provider LNP Operations Flows Narratives.

NOTE: Pursuant to FCC Order 07-188, released on November 8, 2007, and FCC Order 09-41, released on May 13, 2009, Local Number Portability (LNP) obligations are extended to interconnected Voice over Internet Protocol (VoIP) providers. The North American Numbering Council (NANC) identifies three classes of interconnected VoIP providers, defined as follows:

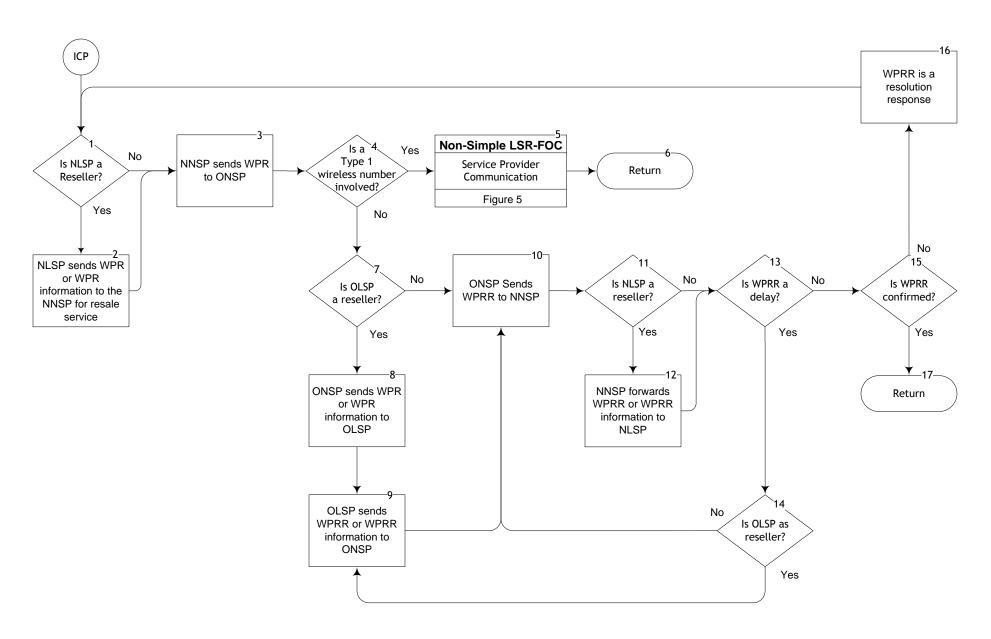
- Class 1: An interconnected VoIP provider that obtains numbering resources directly from the North American Numbering Plan Administrator (NANPA) and the Pooling Administrator (PA). Class 1 interconnected VoIP providers must follow the appropriate Wireline-Wireline/Intermodal Flows (Simple or Non-Simple, whichever is applicable) for the LNP provisioning process, serving as the New Network Service Provider (NNSP) or Old Network Service Provider (ONSP), whichever is applicable.
- Class 2: An interconnected VoIP provider that partners with a facilities-based Public Switched Telephone Network (PSTN) Service Provider to obtain numbering resources and connectivity to the PSTN via the Service Provider partner's end office switch. A Class 2 interconnected VoIP provider is not considered a reseller in the context of the FCC definition of a Simple Port (refer to FCC Order 07-188 and FCC Order 09-41 for Simple Port definition). Class 2 interconnected VoIP providers must follow the appropriate Wireline-Wireline/Intermodal Flows (Simple or Non-Simple, whichever is applicable) for the LNP provisioning process, serving as the New Local Service Provider (NLSP) or Old Local Service Provider (OLSP), whichever is applicable.
- Class 3: A non-facilities-based reseller of interconnected VoIP services that utilizes the numbering resources and facilities of another interconnected VoIP provider (analogous to the "traditional" PSTN reseller). A Class 3 interconnected VoIP provider is not considered a reseller in the context of the FCC definition of a Simple Port (refer to FCC Order 07-188 and FCC Order 09-41 for Simple Port definition). Class 3 interconnected VoIP providers must follow the appropriate Wireline-Wireline/Intermodal Flows (Simple or Non-Simple, whichever is applicable) for the LNP provisioning process, serving as the New Local Service Provider (NLSP) or Old Local Service Provider (OLSP), whichever is applicable.

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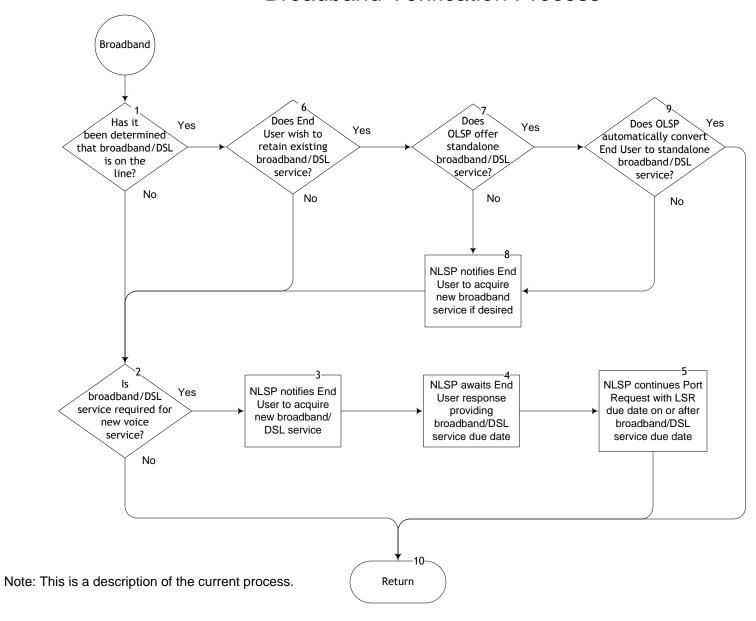
- Port Type Determination -



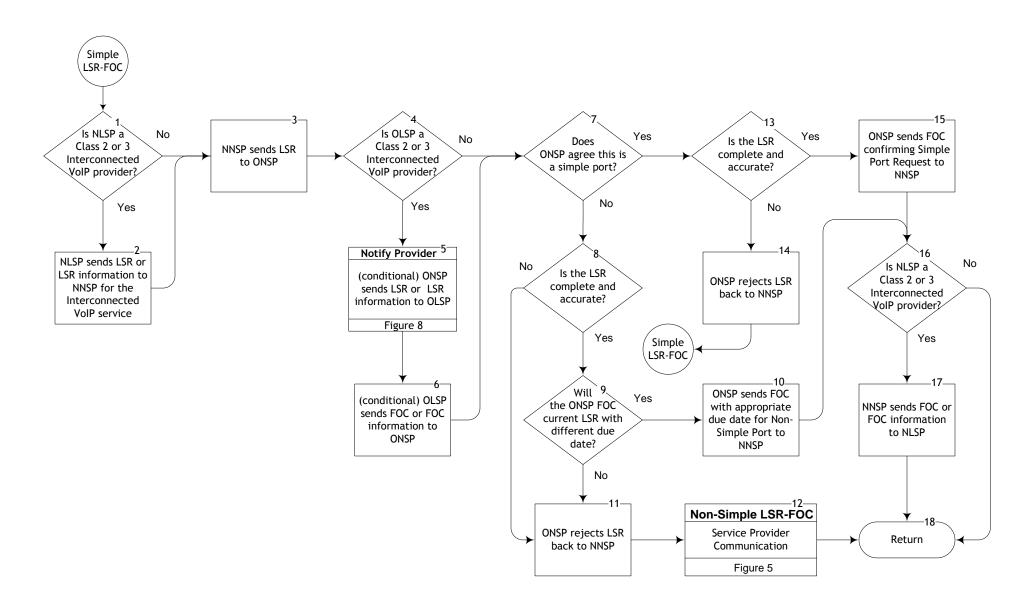
- Wireless ICP Process -



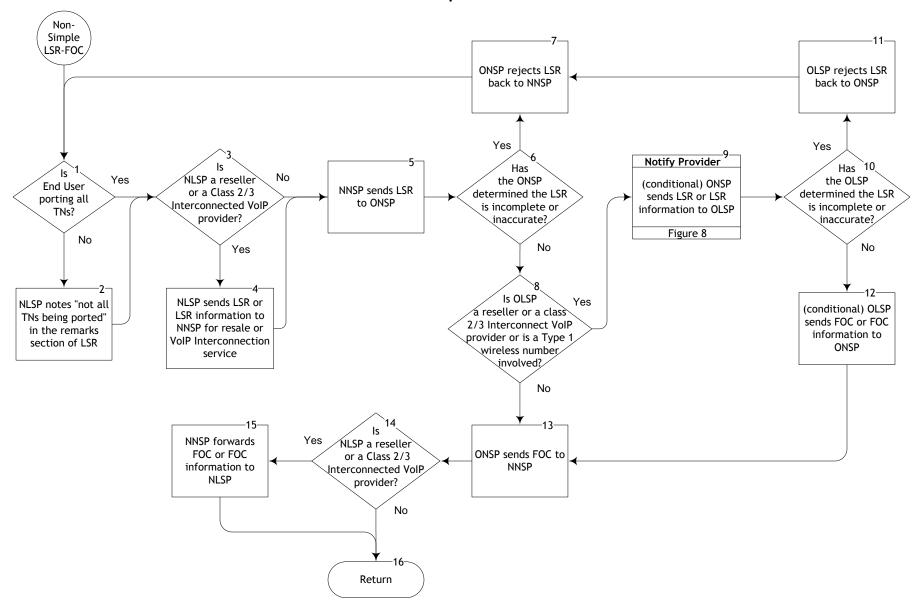
- Broadband Verification Process -



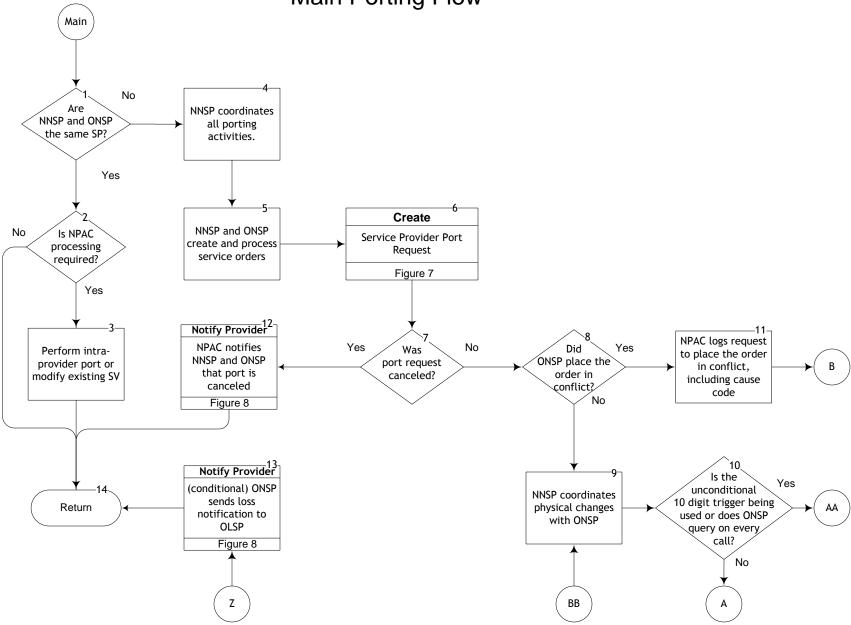
- Wireline Simple Port LSR/FOC Process -



- Wireline Non-Simple Port LSR/FOC Process -

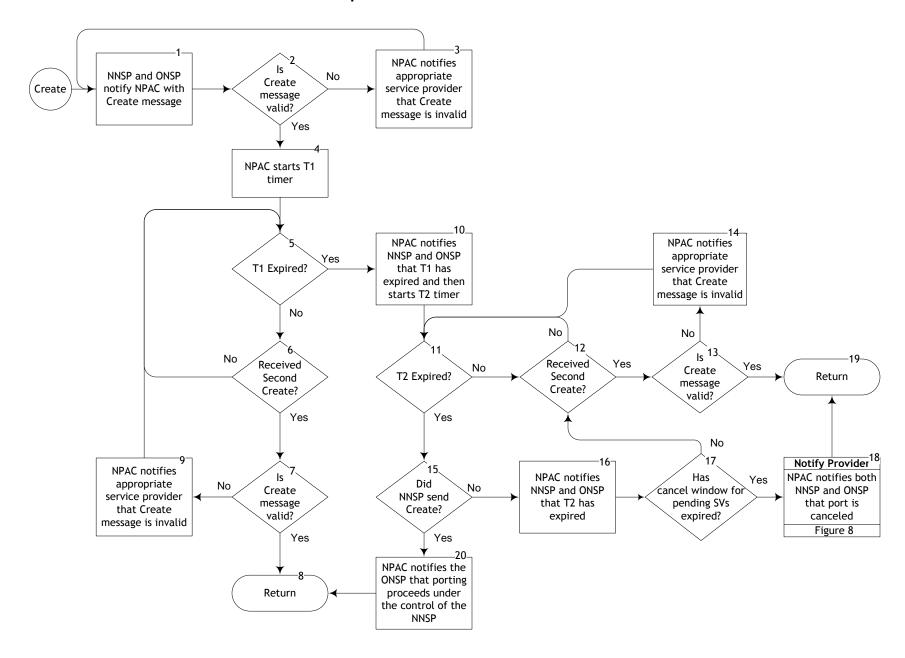


- Main Porting Flow -

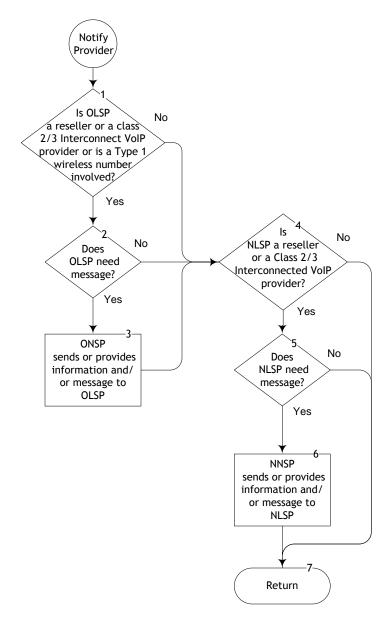


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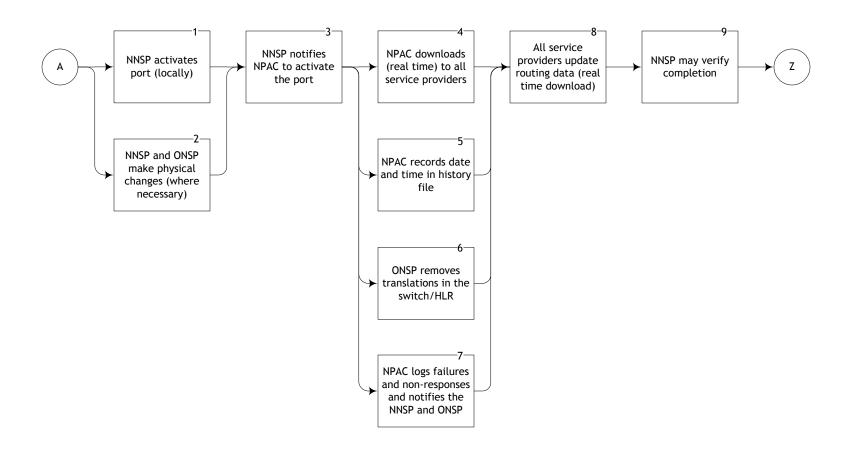
- Subscription Version Create Flow -



- Reseller/Interconnected VoIP Provider/Type 1 Notification -

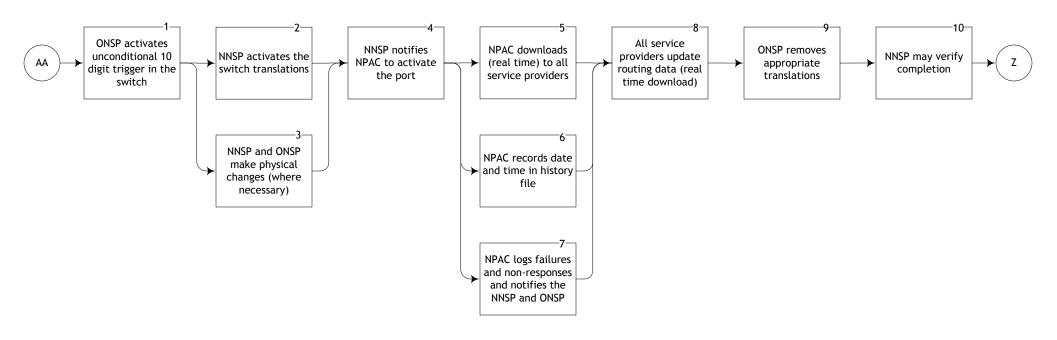


- Provisioning Without Unconditional 10-Digit Trigger -



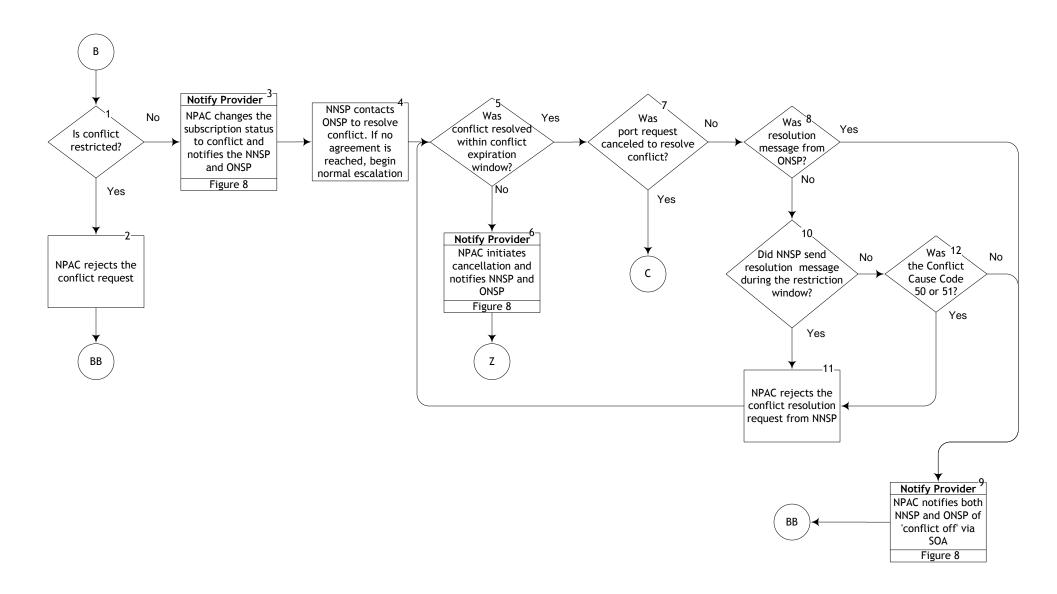
LNPA Working Group Figure 9 Version 4.2.2 – 11/13/2015

- Provisioning With Unconditional 10-Digit Trigger -



LNPA Working Group Figure 10 Version 4.2.2 – 11/13/2015

- Conflict Flow For The Service Creation Provisioning Process -



LNPA Working Group Figure 11 Version 4.2.2 – 11/13/2015

Inter-Service Provider LNP Operations Flows - Cancellation Flow For Provisioning Process -**End User** request to cancel Did 12 the provider **ONSP Notifies** No requesting cancel NPAC rejects the No Did NNSP of NLSP sends cancel send a Create cancel request End User contact Cancellation request to NNSP message to NLSP? NPAC? Yes Yes C Notify Provider Notify Provider 16-NNSP sends SUPP Did 14 **NPAC** updates Yes to ONSP noting **NPAC** updates NLSP a reseller Yes subscription to cancel-Both NNSP and cancellation as subscription to cancel, or a Class 2/3 **ONSP send Create** pending, logs status soon as possible logs status change and nterconnected VoIP change and notifies message to notifies NNSP and ONSP and prior to provider? NNSP and ONSP NPAC? activation Figure 8 Figure 8 No Did 18 17. NPAC waits for No Did NPAC receive **NPAC Notifies** either cancel ACK Yes **OLSP** obtains NNSP sends cancel NNSP send cancel ACK from ONSP that from ONSP or **End User** ONSP within first expiration of request to NPAC cancel to cancel ACK is authorization NPAC? cancel window second cancel missing timer? window timer Νo Yes Notify Provider 21 Did 22 NPAC updates Yes NPAC receive ÓLSP a reseller Yes

Yes Did 24 NPAC receive

cancel ACK from

NNSP within second,

cancel window timer?

No

CC

cancel ACK from

NNSP within first

cancel window

timer?

NPAC Notifies

NNSP that cancel

ACK is missing

No

OLSP sends cancel

request ONSP

ONSP sends cancel

request to NPAC

or a Class 2/3

provider?

nterconnected VoIP

No

subscription to

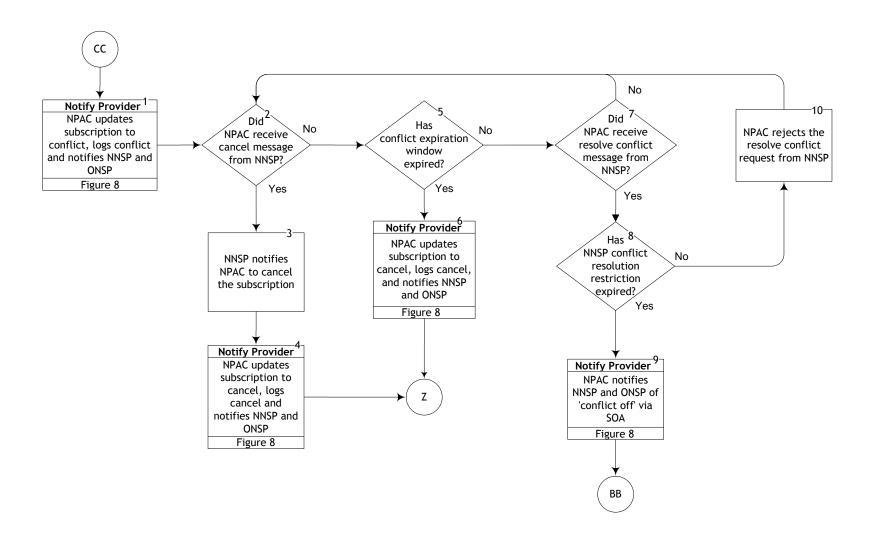
cancel, logs cancel

and notifies NNSP

and ONSP

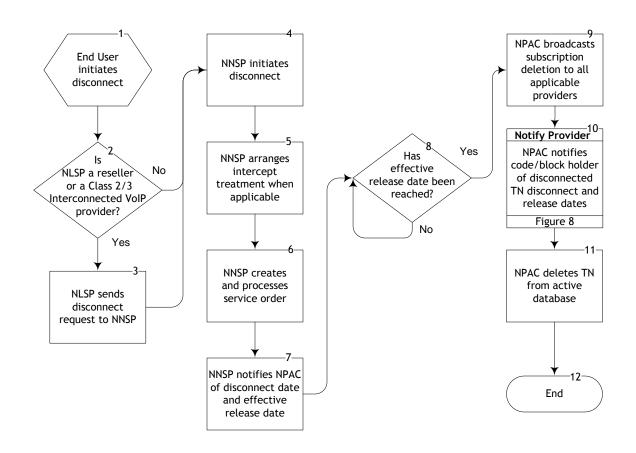
Figure 8

- Cancellation Ack Missing from New Provider Provisioning Process -



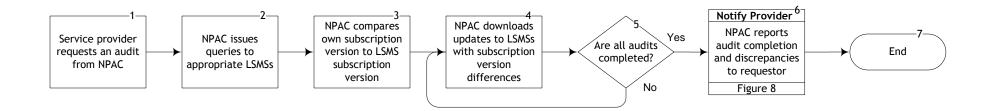
LNPA Working Group Figure 13 Version 4.2.2 – 11/13/2015

- Disconnect Process For Ported Telephone Numbers -



LNPA Working Group Figure 14 Version 4.2.2 – 11/13/2015

- Audit Process -



LNPA Working Group Figure 15 Version 4.2.2 – 11/13/2015

- Code Opening Process -

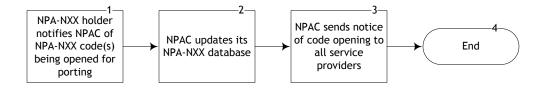
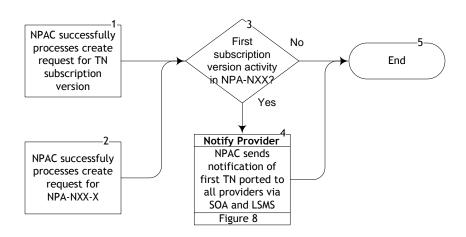
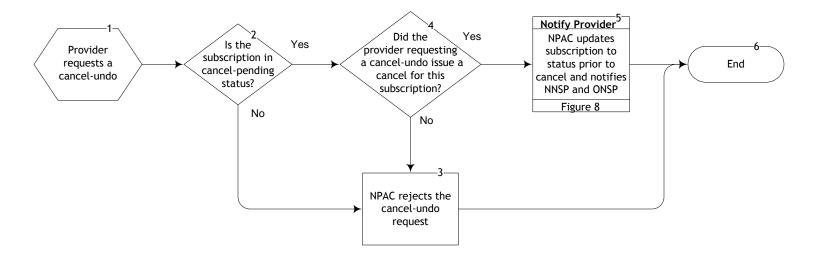


Figure 16

- First TN Ported in NPA-NXX -



- Cancel-Undo Process -



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