LNP Problem/Issue Identification and Description Form

**Submittal Date** (mm/dd/yyyy): 5/27/04 **PIM # 40 v5**

**Company(s) Submitting Issue**: Verizon Wireless

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**(NOTE: Submitting Company(s) is to complete this section of the form along with Sections 1, 2 and 3.)**

1. **Problem/Issue Statement:** (Brief statement outlining the problem/issue.)

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| The intention of this PIM is to discuss minimum industry standards for LNP readiness that must be adhered to by all companies in order to port. The following are concerns regarding low-tech carrier porting processes: 1. **Provisioning codes in the NPAC:**  Carriers using low-tech processes are saying they will not be provisioning their NPA NXX’s with the NPAC in advance, but only at the time they receive a port request. The process they will use is to call the NPAC and have the codes provisioned at the time of the request and then immediately have an SV created in the SOA. Most automated carriers receive a daily download from vendors who must first receive the data from the NPAC. This means that the automated process is actually delayed up to 2 days when the NPA NXX’s a carrier has customers on could be provisioned in advance with the NPAC and eliminate the delay for larger carriers.
2. **Opening codes in the Telcordia LERGTM Routing Guide:**  Some carriers have mentioned that they will not necessarily update the Telcordia LERGTM Routing Guide with their codes marked as portable prior to 30 days in advance of when they could receive a port request on that NPA NXX.
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1. **Problem/Issue Description:** (Provide detailed description of problem/issue.)
2. **Examples & Impacts of Problem/Issue:**
3. **Provisioning codes in the NPAC:**

a. At a minimum the only way carriers have to know of valid NPA NXX’s for

 porting is if they are provisioned in the NPAC Administrative views. For

 automated carriers the port validation check would likely indicate the NPA

 NXX is not provisioned and signal a troubleshooting process to occur. This

 means every port of this type would require trouble resolution and longer

 porting times than are necessary when the provisioning of the NPA NXX could

 be done in advance.

b. While the manual low-tech carrier could complete the port in the 2.5 hour

 timeframe, many large carriers could not due to a 2 day turn around for

 updated NPA NXX files to download from the NPAC to clearinghouse vendors

 and then from clearinghouse vendors to carriers.

 c. It is not realistic for larger carriers to manually update IT tables that feed POS

 systems for each low-tech port request received. In addition, manual updates

 could be reversed by the daily download with vendors.

**2. Opening codes in the Telcordia LERGTM Routing Guide:**

 a. Technically a carrier can allow a port to occur when it is not marked portable

 at the Telcordia LERGTM Routing Guide. However this opens up risks that

 customer may experience call routing issues. Calls from other carriers may

 not complete because they base their LNP trigger tables on the Telcordia

 LERGTM Routing Guide. This will generate Network trouble tickets. In short, it

 is possible all carriers who may be involved in call routing may not know the

 port has occurred for that MDN.

b. Customer’s perception of call routing issues may be that it is the new carrier’s

 Network that is the cause of call routing issues where in reality it is the OSP.

1. **Frequency of Occurrence:**

 For all three scenarios the issues would occur for each port by the low-tech

 carrier to another automated carrier.

**NPAC Regions Impacted**: All

1. **Rationale why existing process is deficient:**
2. Carrier’s are not using industry standard processes already created based on NANC documented requirements. These standards must be employed to resolve the above issues.

**Identify action taken in other committees / forums:** Issues were raised on CTIA calls.

1. **Suggested Resolution:**

The North American Numbering Council, Wireless Number Portability Subcommittee Report on WIRELESS NUMBER PORTABILITY Technical, Operational and Implementation Requirements Phase II version 1.7 documents the process for opening codes in the Telcordia LERGTM Routing Guide and the NPAC in section 5.4.3 as follows:

5.4.3 Opening NPA NXXs for Porting

“A SP will need to make sure NPA-NXXs that need to be opened for porting are marked as portable in the Telcordia LERGTM Routing Guide. The code opening process must occur before processing any subscriber requests for porting numbers from a portable NPA-NXX. The process steps are as follows:

Individual SPs identify the NPA-NXXs targeted for porting and forward a request to the Telcordia LERGTM Routing Guide assignee (code holder) of the NPA-NXXs. Notification must occur by the 15th of the month for portability information to be included in the next Telcordia LERGTM Routing Guide update.

The code holder must respond to the SPs within five business days, indicating whether the NPA-NXX can be processed. The code holder then notifies the Telcordia LERGTM Routing Guide to open the NPA-NXXs, 45 days before the date when porting needs to be effective (if the request cannot be processed, the holder must note the reasons in the response).

The Telcordia LERGTM Routing Guide publishes notification of the NPA-NXX with the effective date, i.e. the date that the NPA-NXX is available for LNP in the NPAC customer networks. Telcordia LERGTM Routing Guide updates are published by the fifth business day of the month. Emergency updates can also be sent out daily.

SPs and N-1 service providers update GTT information in their individual networks for all appropriate services. GTT updating must occur within 45 business days of Telcordia LERGTM Routing Guide publication.

Code holders notify the NPAC of NPA-NXXs to be opened for porting. This should occur within 45 days of the Telcordia LERGTM Routing Guide publication. The SP must notify NPAC personnel via fax or email, preferably 2 weeks in advance, NPA-NXXs available for porting and their effective dates. If a SP chooses, they can input their NPA-NXX information directly in to the NPAC SMS via the LSMS, SOA, or LTI.

The NPAC updates its SP and network information. It then informs all SPs about the availability of the NPA-NXXs for porting via the NPAC SMS to LSMS and SOA to NPAC SMS interfaces. The portable NPA-NXXs and their effective dates are posted on the npac.com web site.

For porting the first ported number in a newly opened NPA-NXX, upon receipt of the first Subscription Version (SV), the NPAC broadcasts a message to all LSMSs and SOAs.

Upon receipt of the message, SPs should open routing tables and set triggers in donor switches, LNP-capable tandems and LNP-capable offices in all networks. “

The LNPA WG supports the above mentioned process for marking codes portable in the Telcordia LERGTM Routing Guide and opening codes in the NPAC.

1. **Final Resolution:**

WIRELESS NUMBER PORTABILITY Technical, Operational and Implementation Requirements Phase II, Version 1.7 as reported to the NANC, will serve to resolve this PIM.

**LNPA WG:** (only) Final Resolution Date: 9/8/2004

Item Number: 0040 v5 Related Documents:

Issue Resolution Referred to: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Why Issue Referred: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_