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| **Chateau Laurier Hotel** | **Ottawa, Ontario, Canada** | **Host:  Canadian LLC** |

**Tuesday July 10, 2001     1:00 pm – 5:00 pm**

Attendance:

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| **Name** | **Company** | **Name** | **Company** |
| Cindy Sheehan | AT&T Broadband | Brigette Brown | Telecorp |
| H.L. Gowda | AT&T | Pascale Lacroix | Microcell |
| Anne Cummins(phone) | ATW | Kayla Sharbaugh | Telecom Software |
| Beth Watkins | AT&T | Jason Loyer(phone) | Telecorp PCS |
| Paul LaGattuta | AT&T | John P. Malyar | Telcordia Technologies |
| Dave Cochran(phone) | Bell South | Jean Anthony | Telecom Software |
| Ron Steen | BellSouth | Colleen Collard(phone) | Tekelec |
| James Grasser | Cingular Wireless | Gene Perez | TSI |
| Jan Dempsey(phone) | Illuminet | Marian Hearn | Canadian Constortium |
| Maggie Lee | Illuminet | Dave Garner | Qwest |
| Gustavo Hannecke | Neustar | Gary Sacra | Verizon |
| Richard Scheer | Neustar | Richard Bell (phone) | Verizon |
| Rob Coffman(phone) | Neustar | Sharon Bridges | Verizon |
| Jim Rooks | Neustar | Jason Lee | WorldCom |
| Rick Jones (phone) | NENA | Steve Addicks | WorldCom |
| Leah Luper | SBC | Patrick Lockett | Sprint |
| Charles Ryburn | SBC | Jim Alton (phone) | SBC |
| Dan Kliegel | ESI | Dennis Robbins (phone) | ELI |
| Chris Bowe | Nextel | Jamie Sharp (phone) | XO |
| Steve Farnsworth | ESI | Jill Byers | Bell Canada |
| Tony Chow | Bell Canada |  |  |
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**Review of May Minutes:**

Team reviewed June minutes and corrections have been made directly to the minutes.  They are now marked as final and are being distributed with July draft.

**Wireless Number Portability Operations**

. Also, see the WNPO Committee meeting minutes.

CTIA is working on a report of anticipated pooling volumes associated with Wireless Number Pooling.  This will be discussed in the August meeting.

NANC 328 - The wireless Service Providers (SP) will discuss/review this NANC Change Order, internally in each of their companies.  Extended timeframe (this relates to a SP maintenance window) on the first Sunday of each month from midnight to 11:00 AM.  During the maintenance window the Timers will be running, and there will be no impact.  The above times are Central Time (CT).  The wireless committee will bring their recommendation to LNPA WG committee at the August 2001 meeting.

**Action:  The wierline SPs should be prepared to provide their comments during the August meeting.**

Jim Grasser will give the July NANC report.

**Problem / Issues Management (PIMs):**

PIM location at web site has been updated. Current info should be located at [**www.npac.com**](file:///P:\4MichaelDoherty\www.npac.com\index.html)

**PIM-1:   Porting with Resellers.**

The National Number Portability Operations team (NNPO) has prepared revised flows for the LNP provisioning process to reflect alternatives where either the old service provider, or the new service provider, or both, are (wireline) resellers.  The NNPO flows presumes the underlying network providers issue the LSR and FOC.  However, the OBF continues to support two alternatives, including one which allows the old and/or new reseller to interact directly in the LSR/FOC process.  The NNPO (except for its Verizon member) will not support a dual flow approach.  NNPO has explained to OBF that the dual approach is not workable.  OBF has committed to discuss the situation with LNPA-WG but has already commented to NNPO that its flows are Guidelines only.

A vote is planned for August meeting to either (1.) accept the NNPO flows or (2.) insist that flow encompass both of OBF's reseller options.  Regardless of which approach is taken, the current flow must be revised and sent to NANC for eventual approval by the FCC. Furthermore, wireless resellers must be accommodated as well in the flows. Meanwhile, the only NANC flows that have completed the FCC review process are those originally developed in April 1997.   Even the June 1999 flows included in the LNPA-WG's second report to NANC on wireline/wireless integration have not completed the formal review process.

**PIM-5:   Unilateral Back-out of Inadvertent Port.**

No change from previous minutes. A revised SOW 19 was received by NAPM/LLC.

**PIM-6:   Modify 911 Record Migration Process & End User Move Indicator (EUMI)**

Per Rick Jones no change as of this meeting, NENA still working the issue.

**PIM-9:  Inter-Carrier Trouble Reporting**

No change. This PIM will be discussed at the next NIIF in July 23-26, 2002 in Ottawa Canada.

**PIM-10:   Inter-Carrier Billing Problems on Calls to Ported Numbers**

USLC agreed to close PIM due to lack of examples.  Updated as closed on web.

**PIM 11: Moving Blocks between Switches**

This has been forwarded to INC and CIGRR. No reply has been received at this time.

**PIM 12: Operator Service Functionality**

Several SPs stated that they had not been able to discuss this issue with their Operator Services folks.  Dave Garner said that this is not a NPAC issue.  Jim Grasser would like to know what the wireline SPs, who have wireless counter parts within their company are doing with this PIM.  SPs are to come prepared to discuss in the August meeting.

**PIM 13:  Premature Disconnects**

**This PIM is being handled at the National Number Portability Operations team  (NNPO)**

There have been several brief discussions at prior meetings about timing of the old service provider disconnect work, particularly for the case where the port does not involve reuse of facilities.  The flow involving no use of the unconditional ten-digit trigger -- a coordinated cutover in all likelihood --  includes a note that steps involving NPAC activation and old SP translations removal can be concurrent.  However, for the much more common situation where the ten-digit trigger is involved, the old SP translations removal is not included within the group of steps listed as being possibly concurrent.  Thus the flow appears to indicate  that the old SP's removal of its switch translations must be **after**the NPAC activation broadcast is received by the old SP.

CLECs have experienced problems with premature disconnects and delayed activation when ports must be delayed at the last minute but the LSR process is not fast enough to stop the old SP's disconnection work.  This is a particularly serious problem when ILEC disconnect time is defined as being before midnight of the due date.  There is no dispute that the LSR supplement to change the due date is not required; rather, the argument is about whether the old SP can disconnect the customer's service (i.e., remove the switch translations) before the NPAC activation (as indicated by the NPAC broadcast) has occurred.  That is, the disconnect is not supposed to occur until the customer is connected to the new SP's network, and this condition is indicated by the new SP's sending activation to the NPAC and the consequent broadcast of the new ported number information by the NPAC to all SPs.

Among the ILECs, only BellSouth actually triggers disconnect work based on receipt of the NPAC broadcast.  Verizon uses a due date plus one approach as a surrogate for this approach.  Because many interconnection agreements do not detail LNP processes and instead merely state the parties' agreement to comply with NANC processes, this is an important ambiguity to clear up.

**WorldCom asked that this resolution of this ambiguity in the flows be made a formal agenda item at next month's LNPA-WG meeting.   The LNPA-WG produced the flows and so is best arbiter of their meaning.**

**PIM 14:  NXX Codes Ownership Changes**

The PIM was canceled since it was reported that this issue is being handled at INC in its CO Code Workshop (issue 295) and its LNPA Workshop (issue 290).

**PIM 15:  Disconnect of NXX Code with Ported TNs**

The PIM was accepted and is being forwarded to INC for action. Meanwhile, change order NANC 217 (provides for wholesale change of a SPID) and/or change order NANC 323 (allows less than wholesale change of SPID association) are expected to be part of the next package of change orders sent by LNPA-WG to the LLC for approval.  These change orders avoid the service affecting aspect of changing the NPA-NXX:SPID association table at NPAC.

It was observed by one SOA vendor (ESI) that maintaining invalid data, such as would be the case where invalid SPID/NPA-NXX association is allowed and we rely on the override (for NPAC purposes) offered by block ownership records, may have some adverse operational impacts.  For example, a particular SOA design may attempt to validate NPAC network data against LERG.  This check would fail since LERG would show current assignee for NPA-NXX while NPAC would show former assignee.  This is not a show-stopper, but something to bear in mind.

**Wednesday July 11,  8:30 – 5:00pm**

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| **Name** | **Company** | **Name** | **Company** |
| Cindy Sheehan | AT&T Broadband | Brigette Brown | Telecorp |
| H.L. Gowda | AT&T | Pascale Lacroix | Microcell |
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| Beth Watkins | AT&T | Jason Loyer (phone) | Telecorp PCS |
| Paul LaGattuta | AT&T | John P. Malyar | Telcordia Technologies |
| Dave Cochran(phone) | Bell South | Jean Anthony | Telecom Software |
| Ron Steen | BellSouth | Colleen Collard (phone) | Tekelec |
| James Grasser | Cingular Wireless | Gene Perez | TSI |
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| Maggie Lee | Illuminet | Dave Garner | Qwest |
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| Jim Rooks | Neustar | Jason Lee | WorldCom |
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| Dan Kliegel | ESI | Dennis Robbins (phone) | ELI |
| Chris Bowe | Nextel | Jamie Sharp (phone) | XO |
| Steve Farnsworth | ESI | Jill Byers | Bell Canada |
| Tony Chow | Bell Canada |  |  |

**Release 3.1 Change Orders**

Five change orders were approved.  These were packaged as release 3.1, to be sent to the NAPM LLC July 16th.  The NAPM LLC in turn is expected to ask Neustar July 17th to prepare a statement of work (SOW) indicating price and availability date for these NPAC software changes.  Neustar anticipates presenting the completed SOW to the NAPM LLC at its meeting July 25th.  Ideally, the NAPM LLC will vote to accept the SOW at that meeting.  (The change order package and estimated SOW price was approved in concept at the LLC's June meeting.)

These change orders are needed to address a problem with the message traffic sent across the NPAC/SOA interface.  With the introduction of release 3.0, the NPAC was able to process range messages more quickly and consequently could produce large volumes of notification traffic bound for the old and new SPs involved in a port in much shorter interval than before.  Resulting delays in receiving certain notifications because of the resulting backlogs of notification traffic caused Operational problems.  As a result of the User's experience with release 3.0 in the Northeast region, the release was not implemented elsewhere.  Thus as a result of the delayed implementation of release 3.0, efficient data representation (EDR) for pooled block broadcasts is not being implemented as originally scheduled and the number of pooled block requiring later conversion to EDR format in carriers' LNP databases continues to grow.  These conversions not only require otherwise unnecessary work, each block requiring conversion represents a possible service risk to customers with numbers assigned from the block, hence the urgency to complete the release 3.1 change order work.

*NANC 179 - Packages SOA Notification Messages in Groups*

Purpose of the change order is to reduce NPAC/SOA interface traffic.  Allows NPAC to send SOA notifications as a single message when the operation causing the notifications was done for a range of TNs.  NPAC will use this same "range" format even when notification messages involve a single TN for SOAs at which NANC 179 is implemented.  Note that not all notification messages are covered by this change order; those will continue to arrive individually and in the old single-notification format.

In response to question, Neustar stated that including NANC 179 in the 3.1 release adds a few weeks to time required for software development and to the testing periods, but is not so great that it would be better to move 179 to a later point release.  The long pole in the NANC 179 tent is the time required by SOA vendors for their development efforts.

*NANC 240 - Eliminates "Auto Cancel"*

Modest impact on NPAC/SOA interface traffic volume, but provides Operations improvement.  The change order allows pending SVs to remain in existence when only the old SP has sent a Create message to NPAC and the T2 timer has expired.  This reduces number of times Old SP must resend a Create message because New SP failed to send its matching Create message before the T2 timer expired.

*NANC 294 - Allows Second Create Message after Due Date is Passed*

This change order has little impact on NPAC/SOA interface traffic, but provides an Operations improvement.  The change order has two impacts:  It deals with the fact that to the NPAC, dates change on a GMT basis.  Thus a carrier trying to send its matching Create message after 7:00 PM Central time still can concur with a Create message having due date that looks like "yesterday" to the NPAC.  This change order  also allows the pending SVs which survive under change order NANC 240 to be matched without the old SP having to send a Modify message to NPAC to change passed due date on its existing Create message.

NANC 328 - Tunable Business Days

This is an unrelated change order creating tunable business days, but is needed now in connection with introduction of Wireless LNP next year.  Hence the change order is included in the release 3.1 package.

*NANC 329 - Prioritizes Most Common SOA Notification Message Types*

This change order allows a priority to be assigned to major categories of NPAC to SOA notification messages and thus allows critical messages to skip ahead of backlogs of notification messages awaiting delivery.  Notification messages have always had a priority within NPAC's processing, but this change order breaks that priority into three subgroups.  LNPA-WG decided to establish as the default priority a "medium" priority, leaving it to each User to assign higher or lower priority to the various types of covered notification messages that it wanted treated differently.  Three of the involved notification messages were further subdivided into "old SP" and "new SP" categories.

It is likely that SPs will leave most of the notification priority settings at their default values, and move only "object create" notifications to the high priority level.  But since many SPs are not represented at LNPA-WG, we did not want to assume different default priority values did not choose to make even that message a "high" default priority.  Thus a carrier who fails to establish custom priority settings (by choice or by lack of awareness of the feature) will interact with NPAC exactly as it does today.

The following timeline was developed and agreed to by all:

**7/13      Jean will update the above package and send it to Charles**

**7/13      Charles to send letter to the LLC Chairs, requesting that the LLC formally request an SOW for Release 3.1, from Neustar.**

**7/17      Charles will request an expedited process from Neustar.**

**7/25      The next step is Neustar will send the SOW to the NAPM LLC for their approval.**

**Thursday July 12, 2001, 8:00 – 12:00 pm**

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| **Name** | **Company** | **Name** | **Company** |
| Cindy Sheehan | AT&T Broadband | Brigette Brown | Telecorp |
| H.L. Gowda | AT&T | Pascale Lacroix | Microcell |
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| Chris Bowe | Nextel | Jamie Sharp (phone) | XO |
| Steve Farnsworth | ESI | Jill Byers | Bell Canada |
| Tony Chow | Bell Canada |  |  |

Jean Anthony summarized yesterday’s discussion of NANC change orders for release 3.1.

**New Business:**

Steve Addicks requested a discussion of NANC Flows as described under PIM 13 for August meeting.

There have been several changes to upcoming meeting locations and dates.  These are all tentative at this time and my change by the August meeting.  Currently the changes are as follows:

**LNPA WG:**                                                        **Host:**

September        18 - 20\*                                     Verizon, Baltimore, MD

October               9 - 11                                      SBC, San Antonio, TX

November          13 -15\*\*                         Qwest, Phoenix, AZ

December         11 -13\*\*                         Neustar, New Orleans

\* Date change.

\*\* Location change.

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