Wireless Testing Sub Committee
Denver, CO
October 13 - 14, 2002

Attendees:

> Ron Wuesthoff (AWS), Janet Bishop (AWS), Joe Charles (Cingular Wireless), Susan Sill (AWS), Steve Addicks (Neustar), David Alexander (Sprint PCS), Meredith Cummings (Nextel), Laura Meyers (Nextel), Paul Warga (Telecordia), Mubeen Saifullah (Nightfire), Pat Gendernalik (SBC), Rick Jones (NENA), Kathy McGinn (Rural Cellular Corporation), John Weakley (Qwest Wireless), Jean Anthony (Telecom Software)

New Business:

Baltimore meeting minutes reviewed/approved.

New Issue: Presented by AWS
- Carriers need to be aware that if they have multiple HLRs serving a single market NPA/NXX not all switch vendors have the capability to route to the second HLR. Fixes are due next year to route to multiple HLRs of the LRN.
  Revised statement – presented 11/11/02
  There are two issues involved here. First off, all switch vendors DO have a
  way to route to the second HLR (pair is implied here). That is not the
  problem. The problem is when the NPA-NXX that the LRN comes from is homed
  on a different HLR than the NPA-NXX of the subscribers MDN. The
  Location_Request is routed based on the LRN NPA-NXX and not the MDNs
  NPA-NXX, and the HLR returns Subscriber_Unknown. This would not occur if
  the MDN exchange was homed on the mate HLR of the pair. The switches require
  an LRN be assigned, from an NPA-NXX on each HLR, that they need to send
  Loc_Reqs to.
  Second is that there is no effort underway by two switch vendors
  that route Loc_Reqs this way, to modify how these calls are handled. This effort
  can also effect other switches such as Lucent if number management between
  MIN blocks for the SID/BID, MDNs in their respective Rate Centers and HLR
  mappings are not carefully coordinated.

New issue: Presented by AWS
- E911- If a carrier uses a third party provider for their E911 solution, may need to clarify if changes are needed to support MIN/MDN separation. Validate what signaling and/or subsystem number requirements are needed by that vendor to support MIN/MDN separation.

WTSC Test Schedule Recommendation
- **<u>Background:</u>**

The ATIS-OBF Wireless InterCarrier Interface Specifications (WICIS), which replaces the CTIA Inter-carrier Communications Process (ICP), will be used to communicate a customer's request to port from one wireless carrier to another. The ATIS Wireline ordering process, as defined by the Local and Service Ordering and Provisioning (LSOP) committee of OBF, will be used to communicate a customer's request to port when a wireless and wireline carrier are involved. Section 4.0 of the "Wireless Number Portability Subcommittee Inter-carrier Test Plan" defines the validation of the interfaces between carriers.

Of concern is the Wireless InterCarrier Interface Specifications (WICIS) 2.0 deliverable. This will not be available until December at best. WICIS 1.0 & 1.1 details are available and should be under development by most carriers. Also, NPAC will be updating to release 3.2 early next year. These changes must not impede any inter-carrier or WICIS/ICP testing.

End-to-end testing is defined as simulating the customer experience of walking in and requesting service on another carrier's system, i.e., IT system centric testing. This includes provisioning, geographic eligibility, ICP, proper billing, etc..

A major concern brought to light by one of the meeting's participants is the length of time required to establish connectivity between carriers and/or clearing houses to support the ICP activities. It can take up to 18 weeks to complete connectivity.

In an effort to stem this possibility, the participants at the Denver WTSC meeting discussed the situation and came away with the following wording.

WTSC Statement:
"To support NANC's requests for testing, the WTSC recommends that carriers start end-to-end testing by October 15, 2002. However, in the event that a carrier is not able to support end-to-end testing on October 15, 2002, it is strongly recommended that end-to-end (IT centric) testing start no later than June 1, 2003 and be completed by September 30, 2003. Regression testing with various versions of OBF, NPAC, SOA, etc., is expected to be conducted by the individual carriers. Current call completion (network centric) testing will continue."

The above topic will be discussed in Atlanta and sent to WNPO for their approval. IF you cannot attend the meetings in Atlanta, please send any comments to the WTSC co-chairs by COB, November 7, 2002. Lack of a response by this date and time will be considered an acceptance of the WTSC Statement.

WTSC Participation:

- Concern was expressed over the few numbers of carriers participating in the WTSC meetings and inter-carrier testing.
- One new carrier, Rural Cellular Corporation, was in attendance.

- In an attempt to gain more contacts and hopefully more testing partners, the Single Point of Contact (SPOC) list will be included with the meeting minutes. It has been requested that each carrier review it and provide any updates back to the WTSC co-chairs. (joseph.charles@cingular.com, ron.wuesthoff@attws.com)

Testing-SPOCs06_20
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Testing Concerns:
- A blank reporting form has been included as a template for reporting inter-carrier test results back to the WNPO/WTSC. The carriers that tested in the Las Vegas MSA designed these templates and should not include any proprietary information.

Test Result
Templates

Industry Test Updates:

- Las Vegas testing has completed.
- Orlando Testing has completed.

Clearinghouse
- Testing currently underway between Nightfire and Verisign

Milwaukee/Knoxville
- Rescheduled for 10/14/02
- Carriers interested in joining this test effort should contact one of the participating carriers SPOC's.

Des Moines
- Rescheduled for 10/14/02.
- Carriers interested in joining this test effort should contact one of the participating carriers SPOC's.

Seattle/Portland
- In progress.
- Carriers interested in joining this test effort should contact one of the participating carriers SPOC's.

Raleigh, NC* (tentative)
- March 2003
- Cingular, Alltell, Sprint LTD, AWS
- Invitation to join test effort will also be extended to US Cellular.
- Carriers interested in joining this test effort should contact one of the participating carriers SPOC's.

Hartford, CT
- Testing starts November 11, 2002
- SBC Services, Inc., AWS
- Carriers interested in joining this test effort should contact one of the participating carriers SPOC's.
- Another round of testing will also occur on 2/10/03.

Washington DC/Baltimore, MD
- Testing starts 1/20/03
- AWS, Sprint PCS, Cingular Wireless, Nextel, Verizon Wireless
- Carriers interested in joining this test effort should contact one of the participating carriers SPOC's.

Indianapolis, IN
- Testing starts 3/3/03
- Cingular Wireless, AWS, SBC Wireline
- Carriers interested in joining this test effort should contact one of the participating carriers SPOC's

Dallas/Ft. Worth, TX
- Testing Starts 3/31/03
- Cingular Wireless, SBC Wireline, Nextel, Sprint PCS, AWS
- Carriers interested in joining this test effort should contact one of the participating carriers SPOC's

New York, NY
- Testing Starts 4/28/03
- AWS, Nextel, T-Mobile*, Verizon Wireless*, Sprint PCS

- Carriers interested in joining this test effort should contact one of the participating carriers SPOC's

Los Angeles, CA
- Testing starts May, 2003
- Cingular Wireless*, Nextel*, Sprint PCS, AWS, SBC Wireline, Verizon Wireless*
- Carriers interested in joining this test effort should contact one of the participating carriers SPOC's

NOTE:
* Carriers have not committed to this test effort.

Carrier Requests:

Sprint PCS is requesting test partners in the following MSA's:
- Baton Rouge, LA
- Shreveport, LA
- Charleston, SC
- Jackson, MS
- Montgomery, AL
- St. Cloud, MN

Nextel is requesting test partners in the following MSA's:
- Orlando, FL
- Denver, CO
- Detroit, MI

AWS is requesting test partners in the following MSA's:
- W. Palm Beach, FL
- Miami, FL
- Ft. Lauderdale, FL

Cingular Wireless is requesting test partners in the following MSA's:
- Chicago, IL
- Atlanta, GA
- Raleigh, NC
- Lubbock, TX

SBC Wireline is requesting test partners in the following MSA's:
- Los Angeles, CA

Sprint Wireline is requesting test partners in the following MSA's:
- Johnson City, TN

General Information:
- To subscribe to the WNPO exploder list, visit: http/lists.neustar.biz/mailman/listinfo.cig, select "wireless ops" and add yourself to the list.

New SPOC contacts:
Company:

    Qwest Wireline
    NPAC Region - Western Region
    Lorna Dubose
    ldubose@qwest.com
    (303) 896-2823
    Pager 1-800-946-4646, pin 1434620

    Verizon Wireless
    Julie Groenen
    julie.groenen@verizonwireless.com

    Rural Cellular Corporation
    Kathy McGinn
    Kathyjm@rcw.com
    Off: 320.808.2482
    Fax: 320.808.2466
    Test MSA: Minneapolis, MN

Next Meeting:
November 11-12, 2002
Atlanta, GA

Meeting Logistics:

Hotels   Directions