

WTSC April Meeting  
Sterling, VA

The WTSC extends its gratitude to Neustar for providing excellent accommodations for our meeting.

**Attendees:**

Janet Bishop	AWS	760-242-4565	<a href="mailto:janet.bishop@attws.com">janet.bishop@attws.com</a>
Susan Sill	AWS	425-580-5642	<a href="mailto:Susan.sill@attws.com">Susan.sill@attws.com</a>
Joe Charles	Cingular	972-907-6973	<a href="mailto:joseph.charles@cingular.com">joseph.charles@cingular.com</a>
Shamik Mukherjee	USC	773-864-8107	<a href="mailto:smukherjee@dc.com">smukherjee@dc.com</a>
M. VanBoven	Nextel	214-244-8825	<a href="mailto:mike.vanboven@nextel.com">mike.vanboven@nextel.com</a>
Glenn Mills	TSI	813-273-3435	<a href="mailto:gmills@tsiconnections.com">gmills@tsiconnections.com</a>
Gary Williams	TMobile	425-378-5191	<a href="mailto:gary.williams@t-mobile.com">gary.williams@t-mobile.com</a>
Julie Groenen	VZW	425-603-2282	
David Alexander	SPCS	913-307-7495	
Gary Eads	USC	815-494-4450	<a href="mailto:gary.eads@uscellular.com">gary.eads@uscellular.com</a>
Liz Coakley	SBC SNET		
John Weakly	Qwest Wlss		
Kathy McGuinn	RCA		
Ron Wuesthoff	AWS		

**Discussion:**

**The WTSC recommends 4 testing phases:**

- Intercarrier network Testing
- SOA/ICP (SOA/Backoffice)
- System
- E2E
- Round Robin

**Definition of industry test phases:**

- Network Testing: The execution of call delivery test cases as defined in section 4.1 through 4.6.25 of the industry test cases and as agreed upon by testing partners.
- SOA/ICP Testing: The scope of this phase of testing is covered by the 4.0 section of the industry test plan. It will cover ICP to ICP systems only and will focus on the carriers ability to exchange port transactions using ICP GUIs.
- System Testing: Also using the SOA/ICP test scripts (Section 4.0) these tests will incorporate the use of back-office systems. *(This is under review and may be combined with SOA/ICP Testing)*
- E2E: Execution of inter-carrier test plan, to include back office validations, utilizing production systems.

- Round Robin: Requires at least 3 carriers to test porting the same MDN(s) through the porting life cycle. This test can be incorporated into any of the recommended 4 testing phases.

### **Lessons Learned:**

- Refined the expected outcome of each test cases with further refinement slated for future meeting.
- If using a clearinghouse and/or service bureau a carrier should complete some pre-port scenarios with the CH/SB before testing with another carrier. This verifies connectivity and IOR files as applicable.

### **InterCarrier Test Plan:**

- Current form is no longer valid.
- WTSC has recommended/agreed that the lengthy test plan will be replaced with the condensed version.
- The flows from the original version will be added to the condensed version.
- A task group will be formed to consolidate the abbreviated and the lengthy test plan documents into one condensed version that will be more usable.

### **Testing Schedule Review**

- The ICP testing schedule was updated for entry to the NPAC website
- The schedule was expanded to denote E2E and Round Robin test events.

### **New Issues:**

***HLR Issue:*** One HLR vendor has acknowledged a problem with the way it handles MSID/MDN Separation. When the MSID/MDN are equal, the HLR only forwards the MSID information. The Vendor is presently working on a patch to fix this problem. ETA unknown. We will monitor this and provide information if additional attention or testing is recommended.

***MSID/MDN Support for roamers:*** Every switch vendor provides a feature pkg. to support non-equal MSID/MDN for roamers. Some carriers outside the top 100 MSA's are misunderstanding the switch vendor options. All carriers must be able to support MSID/MDN roaming, even those outside the top 100 MSA's not mandated to implement LNP. Testing has revealed several carriers outside the top 100 MSAs have not added the feature pkg. to support MSID/MDN roaming, thus some features are not working correctly, i.e. Caller id, Text Messaging, and presentation of MDN to PSAP. The WTSC recommends every carrier verify that all roaming partner carriers outside the top 100 MSA's support MSID/MDN roaming. International carriers are not mandated to support MSID/MDN roaming, so this same problem applies to all International Roaming partners. For carriers with roaming partners in Canada, Mexico, Caribbean, etc. the WTSC advises carriers to recommend the feature pkgs. to support MSID/MDN roaming

be implemented as part of the roaming agreement, and to inform customers of potential problems if roaming outside the US.

### **Standardized Templates:**

The general consensus of the WTSC attendees is that a set of common testing forms would help bring new carriers into testing easier. This will be addressed (time permitting) at the May meeting, or June with the goal to establish a “testing packet” that will contain the Test Scripts, Preparation and Result Record forms.

### **Verizon Wireless Contribution:**

Verizon contributed the following test cases that were reviewed and adopted into the ICP ICT test script set, section 4.0 as test scripts 4.0.24 and 4.0.25. These are included at the end of this document.

### **Future Meeting Logistics:**

**May 5-7** WTSC meeting Kansas City - host Sprint. Instead of ending on Noon Tuesday as normal, Wednesday has also been scheduled to provide time and opportunity to develop the work plans for conducting Round Robin Testing. The full agenda will be sent out on or about Monday April 21. The bridge will be available all three days. Hotel information for May in attached document

**June 9-10** WTSC meeting New York - host AT&T - 32 Avenue of the Americas (a.k.a. 6th Avenue), New York 10013. The AT&T building is located one block south of Canal St. This is a secure facility and they will need a list of attendees (name & company) in advance of the meeting. So, please confirm with Gary.Eads@uscellular.com as your attendance is determined. As for the airports, any one of the three major ones (JFK, La Guardia and Newark airports will require a taxi or bus service. Additional information will be included in the May agenda.

### **Verizon's Test Script Contribution**

#### **4.0.24 Port Request Validation to Correct Ported TN (WLS – WLS)**

##### **Test Description:**

Wireless customer initiates a single-line port. NLSP receives Resolution Required response on the TN as not active. NLSP submits a SUP 3 to correct the TN by re-typing it, then receives back Confirmation from OLSP and the port completes.

**Test Procedure:**

1. Wireless NLSP completes and transmits port request to wireless OLSP
2. Wireless OLSP receives port request and rejects due to non-active TN
3. OLSP returns Port Response indicating that the port request has been rejected due to invalid TN information (RT = Resolution Required, RCODE = 6D "MDN not Active")
4. Wireless NLSP receives port response, re-types the incorrect MDN in the Ported # field and re-sends port request to OLSP.
5. OLSP receives port request and returns a valid Port Response indicating that port request has been confirmed.
6. Document test results.

**Expected Results:**

- A. The end-user is able to edit the TN in the Ported # field.
- B. The NLSP receives a Confirmed Port Response from the OLSP after the issues have been resolved.

**4.0.25 Port Request Validation to Delete/Add a Ported # - Multiple Lines (WLS – WLS)****Test Description:**

Wireless customer initiates a multi-line port. NLSP receives Resolution Required response on one MDN as not active. NLSP submits a SUP 3 to correct the TN by deleting the incorrect TN and adding the correct TN. The

OLSP then returns a Confirm response to the NLSP and the port continues.

**Test Procedure:**

1. Wireless NLSP completes and transmits port request to wireless OLSP
2. Wireless OLSP receives port request and rejects due to invalid information \*
3. OLSP returns Port Response indicating that the port request has been rejected due to invalid TN information (RT = Resolution Required, RCODE = 6D "MDN not Active")
4. Wireless NLSP receives port response, delete's the incorrect TN and Adds the correct TN and re-sends Sup 3 port request to OLSP.
5. OLSP receives port request and returns a valid Port Response indicating that port request has been confirmed.
6. Document test results.

**Expected Results:**

- A. The LNUM field shows deleted for the incorrect TN and another consecutive LNUM shows for the Added TN.
- B. The NLSP receives a Confirmed Port Response from the OLSP after the issues have been resolved.