

Mississippi Waiver Recipient Quarterly Report #8

I. Planning

Expected timing for development and issuance of any RFI/RFP

A. *Expected timing for RFI/RFP*

1. *When will RFI or RFP be issued (any progress or outcome)?*

The Mississippi Department of Information Technology Services is charged with the procurement of all information technology equipment and services for Mississippi State Agencies. The Wireless Communication Commission submitted a procurement request to ITS on April 30, 2010 for development of a Request for Proposals (RFP) for 700 MHz LTE equipment and services for deployment of a statewide public safety broadband network. ITS released the procurement RFP on December 16, 2010 and a mandatory vendor web conference was held on January 11, 2011. Final proposals were received March 3, 2011 at 3:00 p. m.

2. *If the RFI or RFP has been issued, what is the timing of the response window and the succeeding timing for a decision by the Waiver recipient?*

On March 3, 2011, the Mississippi Wireless Communication commission (WCC) received three proposals in response to RFP No. 3639 for the acquisition of a 700 MHz Public Safety LTE Broadband Network. Alcatel-Lucent, Inc., Cellular South, Inc., and Motorola Solutions, Inc. submitted proposals. Evaluation of the proposals was completed in June 2011 and an award was made to Motorola Solutions at the end of June 2011.

B. *What other planning activities have occurred which may increase the potential for timely submissions of FCC deliverables (e.g., meetings with vendors, coordination within the state or, if relevant, any coordination with other neighboring states, communications with public safety officials, narrowband relocation efforts)?*

The WCC retained the services of a professional RF engineering firm to work in conjunction with our technical staff in RFP specification development, proposal evaluation and contract negotiations. WCC representatives have conducted meetings with equipment manufacturers in the 700 LTE arena and commercial carriers prominent in Mississippi since the waiver approval.

MSWIN currently has 116 tower sites complete, 26 sites FEMA approved and under construction, with 2 pending FEMA EHP approval. This will complete the 144 site MSWIN network.

The WCC approved execution of a Change Order with Motorola, the current MSWIN vendor, to provide Alcatel-Lucent microwave and network switching equipment to increase the bandwidth on the MSWIN backhaul network for BROADBAND data traffic. The microwave change order has been approved by the State's contracting authority and obligates \$17,151,980 in BTOP funds and \$11,231,482 in other funds for this portion of the project. During Q1 2011, the

WCC's contractor conducted microwave path analyses on all of the MSWIN Phase 1 and Phase 2 tower sites and began work on the Phase 3 sites. The microwave equipment for Phase 2 sites has now been shipped from Alcatel-Lucent and installation began in July. Phase 1 and Phase 3 sites were manufactured in the third and fourth quarters of 2011 and have been delivered to the State. Phase 3 and Phase 1 microwave are now in deployment.

Project Status: Less than 70% Complete.

Quarterly Activities: During Q3 2011, the WCC's contractor completed factory acceptance testing of the microwave backhaul equipment for the MSWIN Phase 2 sites. Factory Acceptance testing for the Phase 3 sites was completed as scheduled in November 2, 2011 at Alcatel-Lucent's facility was shipped as scheduled the first week of December 2011. The microwave backhaul equipment for 24 phase two links was installed during the quarter totaling 428 new network miles. The remaining microwave links in Phase 2 was installed during fourth quarter 2011.

Subsequent to the award of the LTE contract to Motorola Solutions, Inc. on June 23, 2011, the State team successfully negotiated a contract for the project with execution on August 11, 2011. The WCC Staff conducted a project kick-off meeting with the Motorola LTE Project team on September 8, 2011, and initial project tasks associated with design and equipment orders of the core and eNode B equipment were completed.

During Q1 2012 all eNode equipment as well as the Core was received by the State and is in process of being installed.

Phase 2c and 2d (East Central Mississippi) TBN (microwave) installation is complete and has now been accepted.

On September 8, 2011 the staffs of WCC and the Vendor (Motorola) held a kick-off meeting and have commenced detailed design planning for the LTE network. Since that meeting we have also had site walks for the selection of the Core location.

We have completed the placing of approximately 98 sites with the eNode B equipment and have the Core staged and installed and in the process of being configured now.

We have negotiated with our Vendor for the addition 60 broadband sites which will bring the total broadband sites to almost 200 statewide and have completed the process of identifying locations for those additional sites.

II. Funding

Status of efforts to obtain funding for planning and/or deployment, including budgeting, assessments, grants or other means.

- A. *Briefly describe any efforts to obtain funding (e.g., BTOP application) for the Project.*

The Office of Governor Haley Barbour applied for BTOP funding for deployment of a statewide public safety broadband network on April 30, 2010. The State has received the BTOP award on August 1, 2010. The State has also included \$12.5M in State bond funds and other sources.

- B. *Briefly describe Recipient's current funding plan and expected funding timeline.*

See above.

III. Deployment

Status of equipment development and purchase, including number of devices and users

- A. *Identify any completed efforts at equipment development*

See above.

- B. *Describe any equipment purchases, including types, numbers of devices and who will be the proposed users*

See above.

Site development, including use of existing towers

- A. *How many sites currently exist in the Project area?*

Mississippi is currently implementing a statewide 700 MHz land mobile radio (narrowband) system called the Mississippi Wireless Information Network (MSWIN) The WCC's 700 LTE Broadband plan is to deploy the LTE equipment on the same sites as MSWIN. There will be 144 RF sites when MSWIN is completed in December 2012. Currently 116 sites are complete in the State.

- B. *How many new sites may be needed and will such new builds require additional time for permitting which could delay deployment?*

There will be 26 additional sites constructed in MSWIN. All MSWIN sites have sufficient load capacity for the addition of the 700 LTE hardware. Due diligence on these sites has been underway for several months and are now are in various stages of construction. We have only 2 sites to be constructed that have not yet been approved by FEMA. We will deploy the 700 LTE equipment in the southern half of the state while the remaining sites are under construction. Other than the FEMA

EHP delays we incur in the MSWIN deployment, we do not anticipate any permitting delays in the remaining site development.

C. *Are there any rights of way issues related to the sites which could pose jurisdictional issues and result in delays?*

We do not anticipate any right of way issues. The MSWIN backhaul network is entirely microwave which limits ground disturbance and the amount of right of way acquisition.

D. *What is the status of site acquisition or development (e.g. number of sites completed and ready for equipment deployment, number in progress, number not yet started)?*

116 sites are complete and ready for deployment. The remaining sites are currently under construction.

Deployments and upgrades (commencement and completion), including site information and location

A. *Expected construction/deployment timeline*

Quarter	Milestones	Support for Reasonableness/Data Points
2nd Qtr 2010	<ul style="list-style-type: none"> Sixty-two tower sites completed for MSWIN project 	<ul style="list-style-type: none"> MSWIN Phase 1A, 1B, 1C and 2A sites in South and South Central Mississippi
3rd Qtr 2010	<ul style="list-style-type: none"> MSWIN Complete tower construction on MSWIN sites in Phase 2B – 14 sites 	<ul style="list-style-type: none"> Tower construction according to MSWIN build out plan.
4th Qtr 2010	<ul style="list-style-type: none"> MSWIN Complete tower construction on MSWIN sites in Phase 2C – 9 sites 	<ul style="list-style-type: none"> Tower construction according to MSWIN build out plan.
1st Qtr 2011	<ul style="list-style-type: none"> MSWIN Complete tower construction on MSWIN sites in Phase 2D – 12 sites Issue and Evaluate Request for Proposal for Broadband 700 LTE equipment and implementation services 	<ul style="list-style-type: none"> MSWIN Tower sites are completed or currently leased Tower construction according to MSWIN build out plan.
2nd Qtr 2011	<ul style="list-style-type: none"> MSWIN Award Broadband equipment & services contract 	<ul style="list-style-type: none"> Tower construction according to MSWIN build out plan.

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3rd Qtr 2011	<ul style="list-style-type: none"> • MSWIN • Initial Broadband installation Project kick-off meeting • • 	<ul style="list-style-type: none"> • MSWIN • Tower construction according to MSWIN build out plan.
4th Qtr 2011	<ul style="list-style-type: none"> • Detailed Design Plan Approval for Phase 1 • Begin Phase 1 eNode B installation • Complete tower construction on MSWIN sites in Phase 3A – 15 sites 	<ul style="list-style-type: none"> • MSWIN • Tower construction according to MSWIN build out plan.
1st Qtr 2012	<ul style="list-style-type: none"> • MSWIN • Complete tower construction on MSWIN sites in Phase 3B – 15 sites • Complete tower construction on MSWIN sites in Phase 3C – 15 sites • Install & Configure Core • Complete Install of 700 LTE Equipment on MSWIN Phase 1 sites – 44 sites 	<ul style="list-style-type: none"> • MSWIN • Tower construction according to MSWIN build out plan.
2nd Qtr 2012	<ul style="list-style-type: none"> • Complete Install of 700 LTE Equipment on MSWIN Phase 2 sites – 45 sites • Detailed Design Review Approval for Phase 3 Sites 	
3 rd QTR 2012	<ul style="list-style-type: none"> • Install 700 LTE Equipment on MSWIN Phase 3A sites – 15 sites • 	
4 th Qtr 2012	<ul style="list-style-type: none"> • Install 700 LTE Equipment on MSWIN Phase 3B sites – 15 sites • 	
1 st Qtr 2013	<ul style="list-style-type: none"> • MSWIN • Broadband Network Testing for MSWIN Phase 2 sites • Install 700 LTE Equipment on MSWIN Phase 3C sites – 15 sites • 	
2 nd Qtr 2013	<ul style="list-style-type: none"> • MSWIN • Broadband Network Testing on MSWIN Phase 3 sites • 	

We expect the system to go live second quarter 2013.

On January 9, 2012, the FCC Public Safety and Homeland Security Bureau (Bureau) issued the PLMN ID Order (See Requests for Waiver of Various Petitioners to Allow the Establishment of 700 MHz Interoperable Public Safety Wireless Broadband Networks, PS Docket 06-229, Order, DA12-25, (PSHSB rel. Jan. 9, 2012) (PLMN ID Order)), requiring Waiver Recipients to submit their choice

of numbering administrator for approval and, provided that the Bureau approves the submission, complete the development of a numbering scheme by March 31, 2012.

On February 8, 2012, all twenty-one Waiver Recipients filed a joint request asking the Bureau to approve the selection of Science Applications International Corporation (SAIC) as the numbering administrator.

On March 16, 2012, the Bureau issued an Order (See Requests for Waiver of Various Petitioners to Allow the Establishment of 700 MHz Interoperable Public Safety Wireless Broadband Networks, PS Docket 06-229, Order, DA12-423, (PSHSB rel. March 16, 2012)), approving SAIC to serve as the common numbering administrator.

The Waiver Recipients, through the Operator Advisory Committee, diligently worked with SAIC on the development of the numbering scheme.

The State of Mississippi verifies that it completed the development of the numbering scheme by the March 31, 2012 deadline as required by the PLMN ID Order.

The State of Mississippi also verifies that there is no new information regarding SAIC's licenses or affiliations that might call into question its ability to serve as a fair and impartial administrator.

B. Interoperability Showing (Confirm submittal of copy to FCC and PSST)

The Interoperability Showing was submitted on July 19, 2010 and the State and Motorola are currently working to update this document and are in communication with the Commission (FCC) as to this effort.

C. Confirm access to all public safety entities in your geographic area (Order para. 54)

All Public Safety entities will have eligibility to operate on MSWIN LMR or LTE Networks.

Applications in development or in use

We are working with the University of Mississippi Med Center on applications for med services in the medical transport arena and with various State agencies and ITS to identify applications that could operate on the Broadband Network.