



Reconfiguration Implementation

Module 4

October 18, 2006

Slide 1



- ❑ Kevin Lombardo is a member of the Transition Administrator (TA) Public Safety Outreach team. He is the lead RF Engineer for the West Coast.
- ❑ Shane Satterlund leads the Public Safety Outreach Team within the TA.
- ❑ Elaine Ayensu is a member of the Outreach and Communications team within the TA.



Introduction

[Snapshot 1]



Microsoft Live Meeting – How To

- Question & Answers
- Moods
- Full Screen – Small Screen
- Scroll Bar
- Phones
- Reentering the Meeting
- PDFs



Learning Objectives & Agenda

Upon completion of this module, participants will:

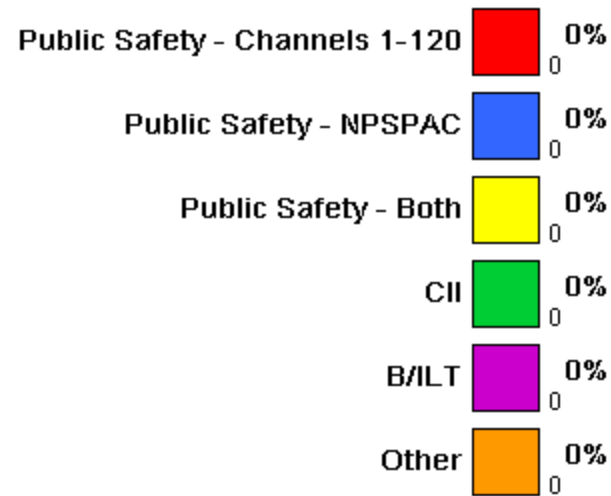
- Have a better understanding of steps required during Reconfiguration Implementation
- Be aware of options available for acceptance testing

Agenda

- Key Reconfiguration Implementation Activities
- Reconfiguration Implementation: Status & Progress
- Summary

To which of the following groups do you belong?

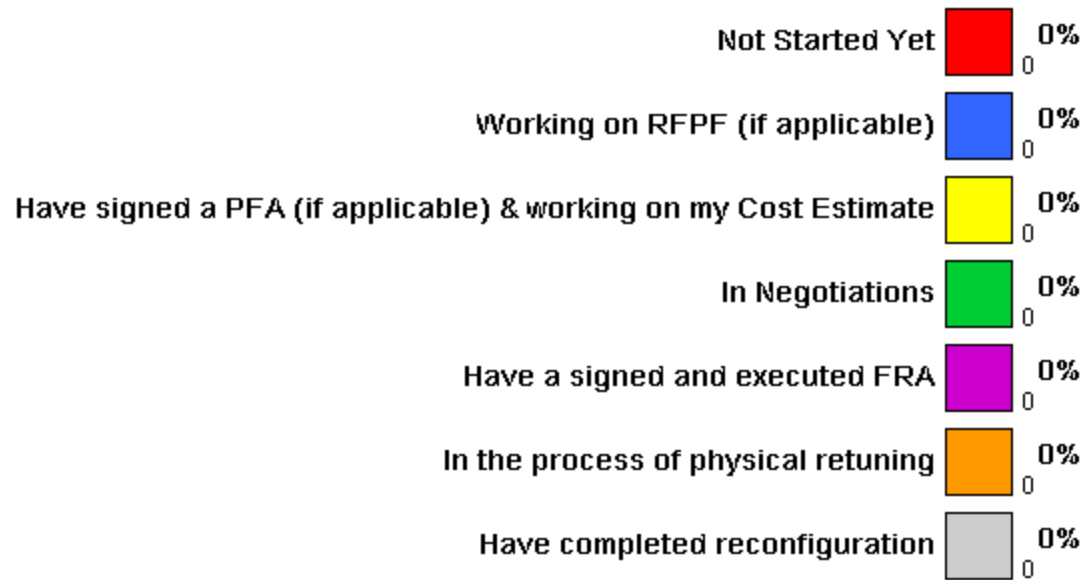
Polls are open.



[Poll 1]

Where are you in Reconfiguration?

Polls are open.



[Poll 2]

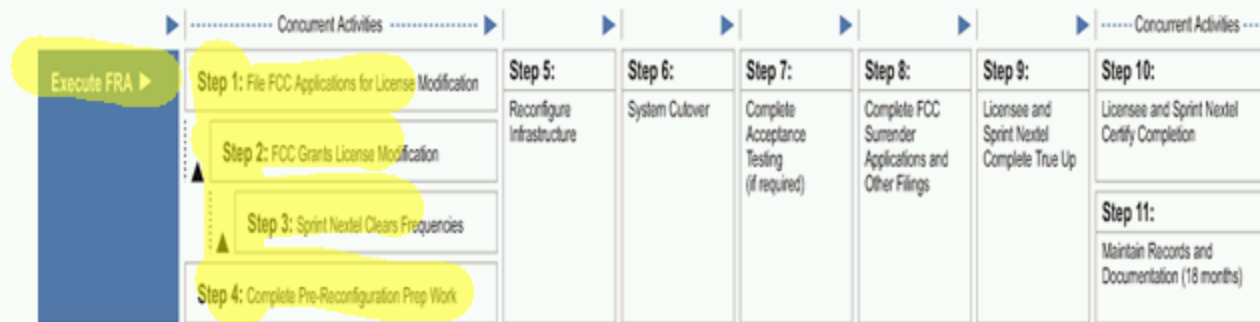
Key Reconfiguration Implementation Activities





Reconfiguration Implementation Phase

After licensees execute a Frequency Reconfiguration Agreement (FRA) with Sprint Nextel at the end of the Planning and Negotiation Phase, the following implementation activities can begin:



NOTE: Timeframes represented are not to scale and will vary significantly depending on the size and complexity of the licensee's system.



Key Implementation Activities

Step 1: File FCC Applications for License Modification

- Licensees are responsible for preparing and filing all necessary applications with the FCC. They may do so on their own, by engaging a consultant, or by requesting that Sprint Nextel do so on their behalf.
- Licensees may negotiate with Sprint Nextel regarding the process for and cost of filing required Construction Certifications with the FCC following the commencement of operations on the new frequencies.
- Applications should only include the addition of your new frequencies.
- A modification application that would expand or move a coverage contour, if filed during the period of the application freeze, will require an FCC waiver. If you file a waiver application, notify the TA.

Key Implementation Activities

Step 2: FCC Grants License Modification

- Activation of the new frequencies in licensee system cannot commence until the FCC grants these applications.

Step 3: Sprint Nextel Clears Frequencies

- After Sprint Nextel clears the necessary frequencies, the new frequencies for licensee's system will become available.
- Schedule details will be arranged as part of the FRA, and Sprint Nextel will notify both licensee and the TA when it has cleared the new frequencies (by discontinuing operations), usually within five days of completing the clearing.



Key Implementation Activities

Step 4: Complete Pre-Reconfiguration Prep Work

- Concurrent with Sprint Nextel clearing frequencies, complete any tasks that can be performed in advance of physical reconfiguration.
- The specific activities included in this step will vary significantly depending on the complexity of your system. Activities may include:
 - Facility preparation
 - Retuning subscriber equipment
 - System baseline testing (if required); or
 - Other activities outlined in your reconfiguration plan



Key Implementation Activities

Step 5:

Reconfigure Infrastructure

- Reconfigure infrastructure and subscriber equipment.
- Specific activities completed as part of this step will vary depending on the complexity of your system. Activities may include:
 - Site retunes
 - Subscriber equipment retunes
 - Other tasks necessary to operate on the new frequencies while minimizing disruption to the existing operations
- During the course of your reconfiguration, Sprint Nextel will remit payments either to you or directly to your vendor(s) in accordance with the arrangements and schedule in your FRA.

For more information on the payment process for reconfiguration, visit the Online Reference Guide on the TA Website (www.800TA.org).



Key Implementation Activities

Step 6:

System Cutover

- The system cutover milestone is reached when all reconfiguration tasks are complete.
- At this point all infrastructure and subscriber equipment is verified to be operational on the new frequencies.



Interactive Q&A

TA Contact:

Phone: 1-888-800-8220
Website: www.800TA.org
Email: comments@800TA.org

Sprint Nextel Contact:

Fax: 678-405-8252
Email: 800MHz@Sprint.com

FCC – 800 MHz Reconfiguration:

Website: <http://800MHz.gov>



Key Implementation Activities

Step 7:

Complete
Acceptance
Testing
(if required)

- If required, acceptance testing ensures the reconfigured system is comparable to the pre-reconfiguration system parameters.
- Larger public safety and CII systems:** In certain circumstances, these licensees may seek to conclude the retuning process with a formal acceptance test of the system to validate operations on the new frequencies.
- Most conventional systems:** Validation of the retuning process for these licensees should be a simple exercise and should not require a formal acceptance test.
- Interoperability across agencies and Mutual Aid functions should also be built into the test where appropriate.
- Any **acceptance testing must be included in the agreed upon Cost Estimate** (and SOW for complex systems) that will be part of **your FRA and must be agreed with Sprint Nextel.**



Key Implementation Activities

Step 7: (cont'd)

Complete
Acceptance
Testing
(if required)

- For some systems, testing to validate coverage may also be necessary. The TA has guidelines for 3 methods (Repeater Site Measurements, Line-of-Sight Measurements & Drive Test) for testing. See TA Fact sheet for more details. http://www.800TA.org/content/PDF/reconfiguration_materials/Coverage_Testing_FS.pdf.
- The appropriate method is the one that requires the minimum cost to determine comparability.
- The objective of Coverage Testing for reconfiguration is to verify that coverage is comparable **immediately before and after** reconfiguration to new frequencies.
- The three methodologies presented are general guidelines, and licensees should develop a specific Method of Procedure (MOP) for their test environment to include specific pass/fail criteria.
- For more information regarding coverage testing, please refer to: <http://www.pericle.com/papers/index.html>, Guidelines for Conducting Drive Test Surveys for 800 MHz Rebanding



Key Implementation Activities

Step 8:

Complete FCC
Surrender
Applications and
Other Filings

- Once you have completed retuning of your system, including any acceptance testing, you will be required to notify Sprint Nextel that the retuning is completed.
- At this time, you and/or your authorized representative and/or Sprint Nextel (depending upon the terms of your FRA) will file additional applications with the FCC to modify your license to delete or "surrender" the old frequencies.
- The TA and the FCC cannot verify that the reconfiguration is complete until the FCC has granted these applications.
- If necessary, Sprint Nextel will also file applications to delete your new channels from their licenses surrounding your locations.

Key Implementation Activities

Step 8:

Complete FCC
Surrender
Applications and
Other Filings

There are two other FCC filings that are not conditions to closing, but must be made in conjunction with reconfiguration:

1. Certification of Construction: The FCC requires this to be filed when new frequencies are placed into operation. Frequencies provided to the licensee through reconfiguration trigger this requirement.

- It should be filed within 15 days of the licensee's commencement of operations on the new frequencies.
- Failure to file this certification may result in the cancellation of your license.
- It is the licensee's responsibility to file this certification either directly or through an authorized representative.

2. Notice of Consummation: If frequencies were assigned to Sprint Nextel for use as part of the transaction, following the closing of the transaction, Sprint Nextel will file a Notice of Consummation with the FCC.



Key Implementation Activities

Step 9:

Licensee and
Nextel Complete
True Up

- The reconfiguration ends with a "closing" process, in which both you and Sprint Nextel will verify that all obligations have been met and perform a "true-up" of expenditures.
- 1. Provide Sprint Nextel with supporting documentation of the actual costs incurred**
 - Invoices
 - Timesheets
 - Receipts
 - Other
- 2. Perform true-up between payments made and actual costs incurred**
 - If additional payments are due to you or your vendor(s), Sprint Nextel will make a final true-up payment(s).
 - If you and/or your vendor were overpaid, refunds will be due to Sprint Nextel.
 - You must negotiate with Sprint Nextel to amend your FRA before incurring new or additional expenses beyond the Cost Estimate.



Key Implementation Activities

Step 10:

Licensee and Sprint Nextel
Certify Completion

- You must provide a **Completion Certification** that certifies to the TA that:
 - You have relinquished your original 800 MHz frequencies and reconfigured your facilities to operate on the replacement frequencies;
 - All work required to reconfigure your facilities to operate on the replacement frequencies has been satisfactorily completed; and
 - You and Sprint Nextel have agreed to the sum paid by Sprint Nextel for such work.
- Sprint Nextel will forward all closing documentation to the TA for review, and the TA will register the reconfiguration as complete.



Key Implementation Activities

Step 11:

Maintain Records and Documentation (18 months)

- Licensees are responsible for retaining all information related to reimbursable costs for reconfiguration.
- Store materials for a minimum of 18 months after the Completion Certification, and longer if you typically retain records for longer.
- Applicable records include:
 - Books
 - Documents
 - Accounting procedures and practices
 - Other data of all types (e.g., written, electronic, or other).
- Supporting documents should be submitted to Sprint Nextel as part of reconciliation and to the TA upon request.
- The TA has the right to request documents beyond 18 months in cases where there are indications of potential fraud, waste, or abuse.



Fraud, Waste and Abuse

- ❑ It is incumbent on all program participants to implement measures to deter and detect potential fraud, waste, abuse, or other illegality in the 800 MHz reconfiguration program.
- ❑ More information about safeguards and other actions required of program participants to combat fraud and other potential illegalities in the reconfiguration program is available in the Online Reference Guide located on the TA's website www.800TA.org.



Interactive Q&A

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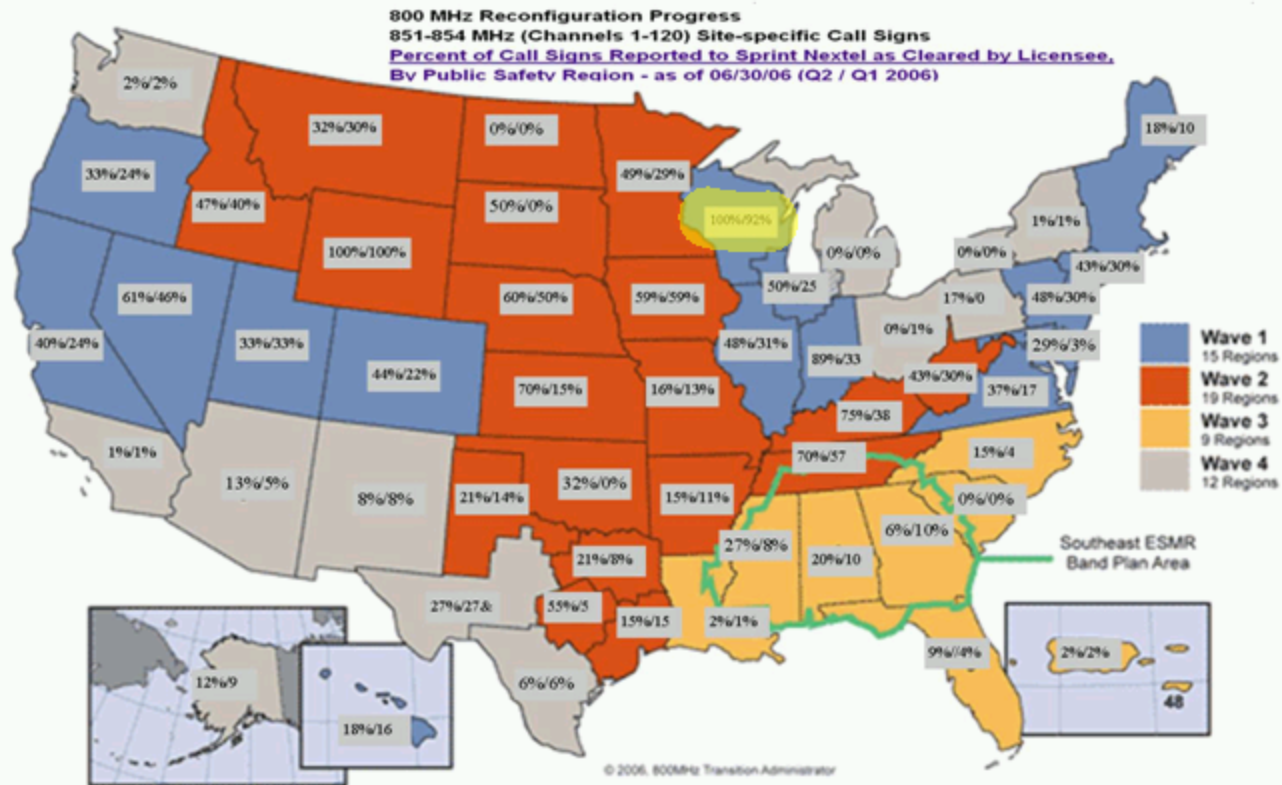
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Reconfiguration Implementation Status & Progress





Reconfiguration Implementation Status & Progress

- As of the end of July 2006, the percentage of call signs reported clear by licensees were approximately 58% for Wave 1, Stage 1 and 48% for Wave 2, Stage 1.
- Despite progress in completing implementation for Channels 1-120, the TA has only verified reconfiguration Completion Certifications for 14% of FRAs in each of Waves 1 & 2, Stage 1.

NOTE: Reconfiguration Implementation does not end once you have completed your physical retuning. Be sure to complete all implementation activities, including certifications and FCC filings.



Summary

- ✘ Review and understand your Implementation and Interoperability Plans**
- ✘ Know your implementation timeline**
- ✘ Manage implementation activities as agreed upon in your individual Implementation Plan to ensure timely and successful reconfiguration**
- ✘ Understand all the dependencies and contingencies of your system as developed in your PFA and FRA**
- ✘ Perform all testing, as appropriate**
- ✘ Upon completion of your implementation, be sure to complete all closing activities including certifications and FCC filings**
- ✘ Seek guidance and assistance from your vendors, Sprint Nextel and/or the TA**



Templates & Tools

Click here to access Online Reference Guide

Forms, Templates & Packages

Handbook, Fact sheets & Quick Reference Guide

Resources include:

- ❑ **TA Online Reference Guide** – Also known as the "Reconfiguration Handbook," this extensive resource covers topics from planning for reconfiguration through implementation. Go to <http://www.800TA.org/org/default2.asp>.
- ❑ **More Coverage Testing Information** – <http://www.pericle.com/papers/index.html>, Guidelines for Conducting Drive Test Surveys for 800 MHz Rebanding (with a further bibliography) and also TIA TSB-88 (latest revision) Section 7.
- ❑ **Coverage Testing Fact Sheet** – Available on TA website at http://www.800TA.org/content/PDF/reconfiguration_materials/Coverage_Testing_FS.pdf



Next Steps

- Follow-up Survey:** The TA will be sending you an evaluation to provide feedback to us.

- Recording of Module:** A recording of this presentation will be on the TA's website www.800TA.org within 48 hours.

- Upcoming Webinars:** The following are Modules that are available in the coming weeks, visit the TA website to register:
 - Lessons Learned – October 19, 2006
 - ADR – October 24, 2006



Contact Information

Wave Points of Contact:

- Shane Satterlund – Wave 1
- Weldon “Joe” Blair – Wave 2
- Tom Brooks, Jr. – Wave 3
- David Buchanan – Wave 4

Sprint Nextel Contact:

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- Email: 800MHz@Sprint.com

TA & Wave Points of Contact:

- Phone: 1-888-800-8220
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