



NPSTC

National Public Safety Telecommunications Council

Celebrating
10
YEARS
1997-2007

Ten Years of Progress | 1997-2007

NPSTC Spectrum Committee Wireless Alerting Working Group

Chair: Jim Weichman

September 15th, 2008

NPSTC is a federation of organizations whose mission is to improve public safety communications and interoperability through collaborative leadership.

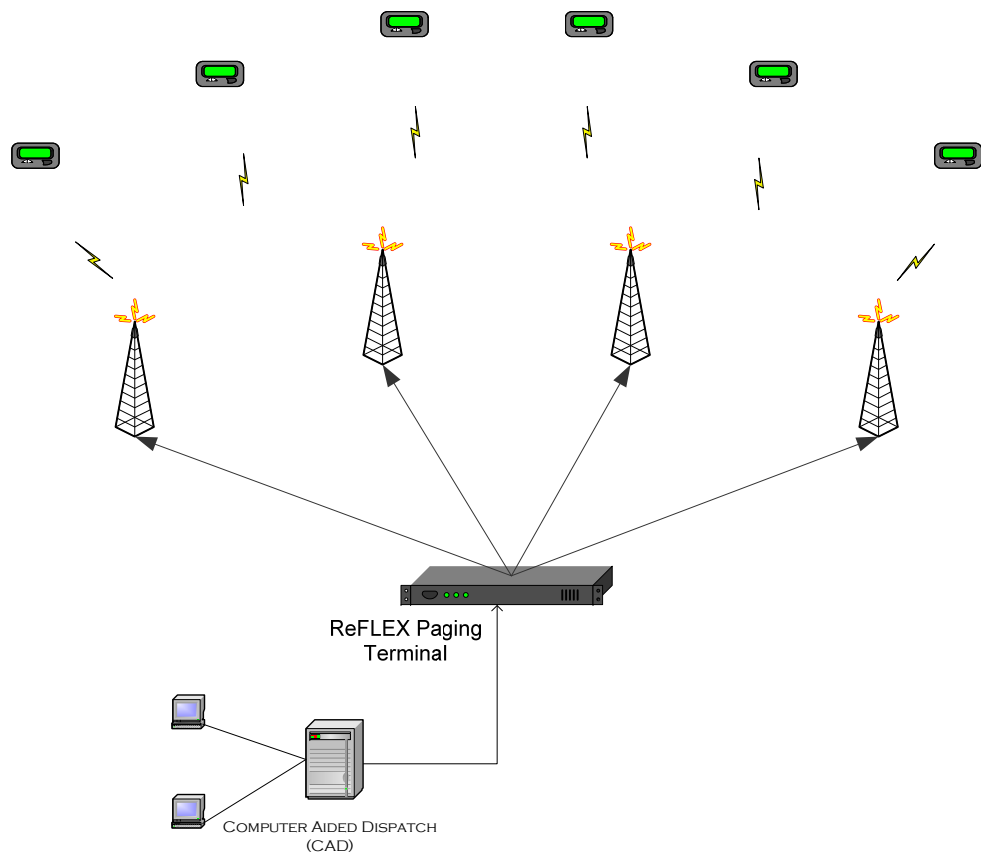
Mission Statement

This Working Group will seek additional spectrum for Public Safety to be utilized in alerting and notifying responders. The Working Group will develop guidance to promote availability of effective alerting, efficient spectrum use and interoperability among systems

Goals

- Develop educational materials on the alerting and notification issues.
- Assess spectrum bands of interest
- Meet with the FCC to discuss potential spectrum availability
- Seek support for recommended solutions

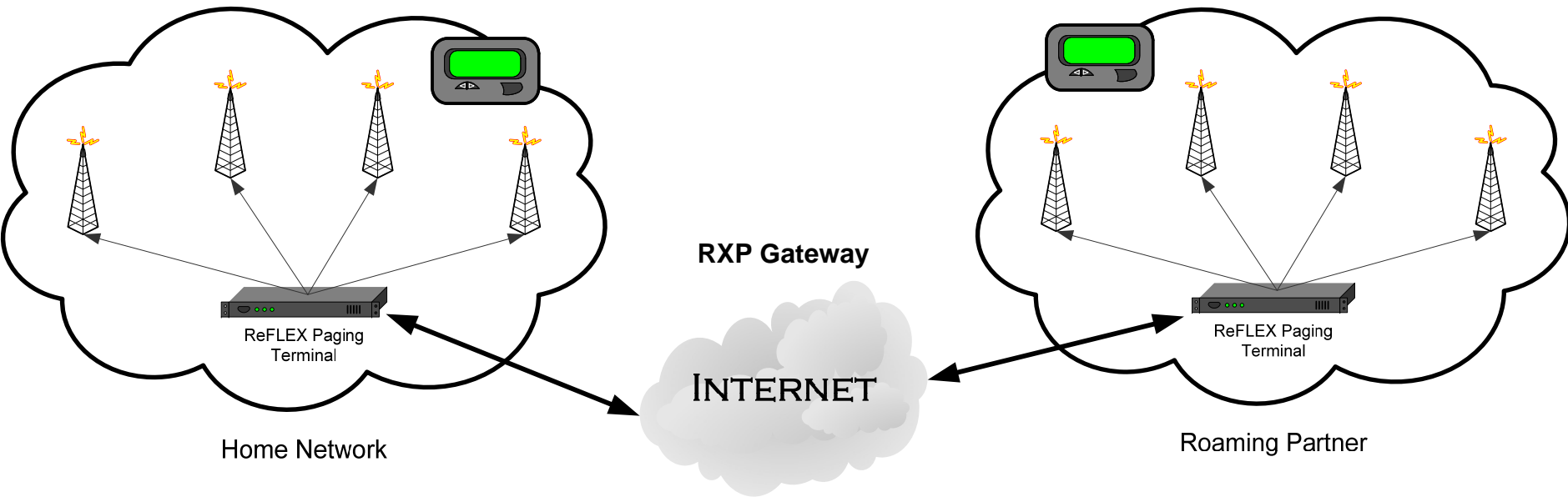
What new capabilities does *two-way paging* offer



All the benefits of one-way plus

- **Message Status Acknowledgement**
 - Message Received
 - Message Read
 - Message Reply
- **OTA Programming**
- **Security – 128bit AES encryption w/OTAR**
- **Low Latency – 5 second delivery**

Network Interoperability



Network Capacity

System Configuration

- Combination Control/Data Channel
- When network traffic requires additional capacity, add additional data channels on the network

Two-way Paging

- Utilizes FCC Part-24 Narrowband PCS
3-Megahertz total
Receive 901-902
Transmit 930-931 & 940-941
- Spectrum sold at auction
- All spectrum is currently licensed
- Only small number of channels currently utilized
- NPSTC met with Commission to discuss options



900MHz N-PCS Alerting Draft Band Plan – Action Items

- 8 Nationwide Control Channels
 - 4-930MHz Control channels
 - 4-940MHz Control channels
 - 901-902 Receive Channels
 - Develop frequency reuse plan
 - Additional spectrum for capacity
 - Spectrum management
 - Use regional planning committees
 - Individual licensing
 - Other options ?
 - Develop interoperability policies
 - Review USA Mobility letter
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Current Volunteers

- Stu Overby
- David Buchanan
- Marilyn Ward
- John Logan
- Andy Thiessen
- Doug Aiken
- Emil Olbrich

- **We welcome others– anyone interested ?**