State Approaches to Wireless Implementation

National Wireless Status
Wireless E9-1-1 Implementation Plan

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Setting

- NENA RCN notes:
- 190 million 9-1-1 calls annually across country;
- 27% (or 50 million) of these originate from wireless devices;
- In the fall, 2001, 110 million wireless telephones;
- One wireless 9-1-1 call for every two wireless phones annually.



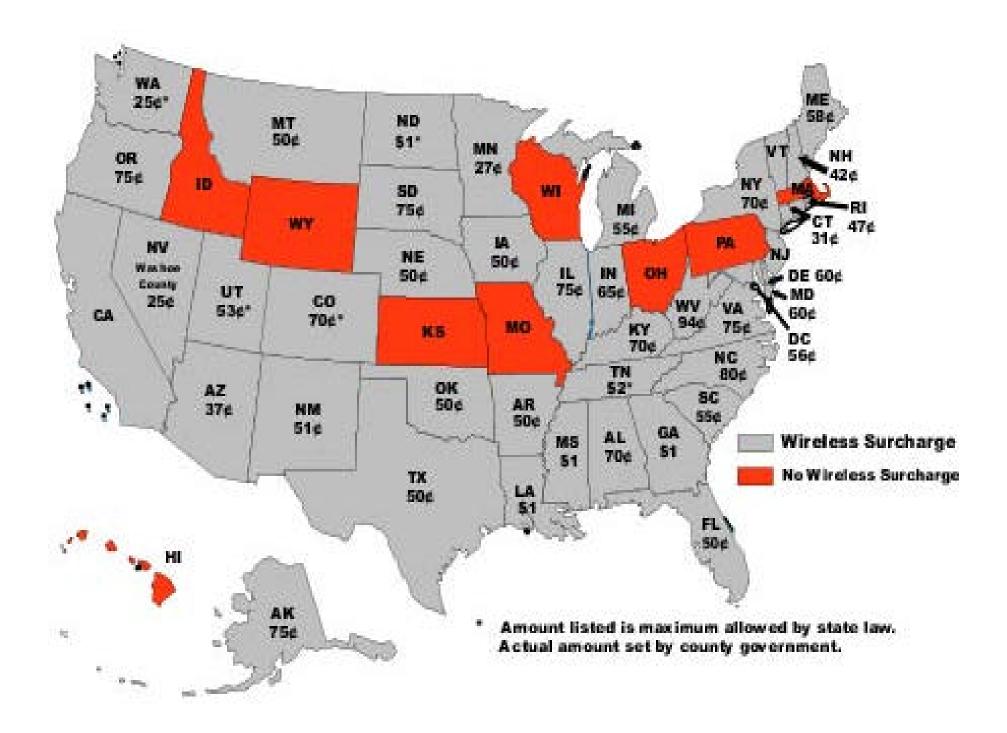


Status

- By Fall, 2001, all but 10 states had passed or had funding legislation;
- 10 states include Hawaii, Idaho, Kansas,
 Massachusetts, Missouri, Ohio, Pennsylvania,
 Vermont, Wisconsin, and Wyoming;
- Of the 10, however, four are in progress, and one (Vermont) uses normal appropriation process;







Characteristics

- In 27 states, fee revenue flows through a centralized fund (usually at the state level);
- Fund is managed by a state board, commission or some other single point of contact;
- Board manages distribution of funds, and, to some extent, implementation process;
- Proceeds are distributed to local government (and/or 9-1-1 authorities);
- And, in some instances, directly to service providers;





Characteristics

- In 15 states, fee revenue flows directly to local government (and/or 9-1-1 authorities);
- Most revenue sources are statutory, subscriber based fees;
- Fees range from 25 cents to \$2 per month, per subscriber account (average of 60 cents);
- Statutory language varies, though most statutes provide cost recovery, as well as some degree of carrier limitation of liability;





Characteristics

- Most states define statutory purpose as "E911 Operations" though some are more specific to wireless;
- Other purposes include: E911 maintenance and upgrade costs, E911 cost recovery, system costs, staffing and operating costs, etc.
- Most provide cost recovery for both public safety and carriers;
- A majority do not identify carrier/PS percentage shares (though, a number do);





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"The Commission shall encourage each State to develop and implement coordinated statewide deployment plans, through an entity designated by the governor, and to include representatives of the foregoing organizations and entities in development and implementation of such plans."





Status of Implementation

- 7,500 PSAPs nationwide
 - 5,000 Primary PSAPs
 - Of which, 3,300 accept wireless calls
- In some states, calls are routed to specific types of PSAPs (CA, KY, MA, VA and Mass route to state police; Minn and Wis routing is by local option)
- Majority (not all) of primary PSAPs have requested Phase I service;





Status of Implementation

- Of those, 40% (approximately 2,100) has deployed service;
- Above represents 9,500 carrier specific PSAP requests, with 2,800 requests deployed.
- Phase II: most carriers indicate 80-100 requests, representing 500-600 PSAPs.





Phase II PSAP Readiness

- Mechanism in place for PSAP to recover its facility and equipment costs;
- Equipment necessary has been ordered and will be installed no later than 6 months from request;
- Timely request made to LEC for necessary trunking and other facilities;
- Option: funding mechanism is in place, and PSAP is Phase I capable using NCAS.





Phase II Deployment Plans

- FCC has approved implementation plans and mandatory conditions for six national carriers;
- Includes quarterly reporting beginning 2/1/02;
- Small and mid-sized wireless carriers given until 11/30/01 to file requests for relief.





FCC Approved Deployment Summary Table (Six National Carriers) October 2001

Carrier/Deployment	FCC	Voicestream	Nextel	Cingular ¹	AWS ²	Verizon	Sprint
Technology Type	Service Co.	GSM	IDEN	GSM	GSM	CDMA	CDMA
	用新加州 加州	E-OTD	AGPS	E-OTD	E-OTD	AGPS/AFLT	AGPS/AFLT
Solution Type		Handset	Handset	Handset	Handset	Handset	Handset
Handset Activations ³							
Start date	10/01/01	Before 10/1/1	10/01/02	10/01/01		12/31/01	10/01/01
10%			12/31/02				STATE OF THE STATE OF
25%	12/31/01	Before 10/1/1		12/31/01		07/31/02	07/31/02
40%				03/31/02			
50%	06/30/02	10/01/01	12/01/03			03/31/03	
65%		SALES BY LOCAL		06/30/02			
100%	12/31/02	03/31/02	12/01/04	09/30/02	Sold	12/31/03	12/31/02
95% Penetration	12/31/05	12/31/05	12/31/05	12/31/05	Day 1	12/31/05	12/31/05
Handset 67% Accuracy 95%	50m 150m	100m 300m	50m 150m	100m 300m	100m 300m	50m 150m	50m 150m
Accuracy Compliance Date	10/01/01	10/01/03	10/01/02	10/01/03	10/01/03	12/31/02	10/01/01
Initial Requests Deployed	Implement	All 10/01/01	A SOMETIMES	12/31/02	All as	12/31/024	06/30/02
Lucent areas	10/01/01	CHANGE VERY	200		GSM	04/01/02	05/30/02
Nortel areas	10/01/01		CONTROL DISC	12/01/02	activated	08/30/02	08/01/02
Motorola areas	10/01/01					03/01/03	
Ericson	10/01/01	SMARTHE	HELDERT'S	12/01/02	HARRY TO		3012 S. 93
Network Implement Dates	STATE OF THE						
PSAP 50% ⁵	10/01/01					12/31/01/	
PSAP 100%	10/01/02		240000000000000000000000000000000000000			04/01/026	2000
Accuracy 67%	100m						
95%	300m		A STATE OF THE STATE OF				
Accuracy Compliance Date	10/01/01			10/01/03	10/01/03		
Backup Network Implementation Dates		12/31/01		03/31/02 to 06/30/02	100% as Headsets	None Given	
Backup method	None	NSS	None	NSS	Enabled	EFLT	None
Backup accuracy	0.51400000000000000000000000000000000000	1000m	\$641.652 TV	1000m		250-350m ⁷	