



Wireless E-911 Services Board

General Business Meeting

May 11, 2005

Agenda



1. Call to Order
2. Approval of Minutes
3. Financial Report
4. CMRS Status Update
5. Future of E-911 in Virginia
6. Old Business
7. New Business
8. Adjourn

Financial Report



Wireless E-911 Service Board March 2005 Financial Report

Item	Month	YTD	Appropriation
DPSC Expended	\$ 34,737.97	\$ 354,135.76	\$ 1,397,039.98
PSAP Funding	\$ 359,986.89	\$ 16,900,316.31	\$ 15,294,000.00
CMRS Funding	\$ 509,251.68	\$ 8,423,120.85	\$ 11,062,902.00
Fund Transfers	\$ -	\$ 3,825,000.00	\$ 3,825,000.00
Total Expenditures	\$ 903,976.54	\$ 29,502,572.92	\$ 31,578,941.98
Revenue	\$ 4,049,306.00	\$ 28,271,109.20	
Interest		\$ 125,062.07	
Difference		\$ (1,106,401.65)	
Beginning Fund Balance		\$ 15,254,891.76	
New Fund Balance	\$	14,148,490.11	

CMRS Status Summary



CMRS	Phase I	Phase II
Alltel	66	45
<i>Cingular (AT&T)</i>	7	7
<i>Cingular</i>	29	21
<i>Cingular (Triton/Suncom)</i>	83	46
Nextel	45	33
<i>Nextel Partners</i>	39	24
nTelos	71	60
Sprint	61	51
T-Mobile	68	62
U.S. Cellular	37	31
Verizon Wireless	94	78
Virginia	6	2

Future of E-911



- ◆ Brief History of 9-1-1
- ◆ Current Situation
- ◆ System Issues/Gaps
- ◆ Guiding Principles
- ◆ Future Vision/Direction

Brief History of 9-1-1



- ◆ Single number first proposed in 1957
- ◆ First official call in Feb. 1968 in Alabama
- ◆ AT&T develops E-911 in 1980
- ◆ Virginia's first legislation in early 1980's
- ◆ Wireless service enters in 1985 routed in most areas to VSP
- ◆ Wireline E-911 legislation revised in 1993
- ◆ FCC acts on Wireless E-911 in 1996

Brief History (continued)



- ◆ First Board and surcharge for VA in 1998
- ◆ Two year Crime Commission Study also initiated in 1998
- ◆ Study concluded and resulting legislation passes in 2000 reforming Board
- ◆ July 1, 2000 finds 37 without E-911 and few wireless deployments
- ◆ Diversion of funds in 2003/2004 and to VSP for wireless call taking

Current Situation



- ◆ Only nine localities without E-911
- ◆ Over 80% complete with wireless Phase II based on subscriber count
- ◆ Wireline telephone service is declining
- ◆ Citizens are converting to wireless or new telecommunications technologies
- ◆ Board limited to wireless funding and assistance only
- ◆ E-911 network is an evolution of regulatory and technological influences

System Issues/Gaps



◆ Existing Architecture

- Nine independent networks
- Designed based on LATA areas/rate centers
- Analog technology to PSAP (voice-based)
- Network and application one and the same
- No central management to ensure interoperability

System Issues/Gaps (cont.)



◆ New Technologies

- Voice over Internet Protocol (VoIP)
- Non-voice devices (SMS, IM, etc.)
- Extremely limited ability to receive data
- New technologies are national or global
- Connectivity to local/regional 9-1-1 systems inefficient

System Issues/Gaps (cont.)



◆ Funding

- Wireline funding reducing/shifting
- Wireless funding has different usages
- New technologies may not contribute
- Some PSAPs may not be able to maintain “system” with current resources
- No minimum standards for PSAP beyond DCJS training

Guiding Principles



- ◆ PSAPs are local services
- ◆ No unfunded mandates or standards
- ◆ Sufficient funding is needed to support PSAPs and network (current/future)
- ◆ E-911 should be available to all who need it regardless of telecommunications device
- ◆ Standards are needed to ensure consistent service levels and interoperability

Future Vision



- ◆ Continuation of locally managed and controlled PSAPs
- ◆ Technical assistance provided to PSAP upon request
- ◆ Integrated Public Safety network – IP-based, managed, secure
- ◆ Network layered with national, state and local components

Future Vision (continued)



- ◆ E-911 Board responsible for state level layer
- ◆ E-911 as an application on the network
- ◆ Network shared with other applications
- ◆ E-911 application is technology neutral serving all technologies
- ◆ Data is processed with the same ease as voice

Future Vision (continued)



- ◆ Funding provided to PSAPs for minimum required configuration
- ◆ Encouragement for efficient organization/operation of PSAPs
- ◆ Public education is a partnership between state and local agencies
- ◆ Anytime, anywhere, from any device the call is sent to the correct PSAP and processed rapidly

Old Business



- ◆ Website Update
 - Funding Application
 - Public Education
- ◆ Extension Request
 - Scott County

New Business



- ◆ CMRS Subcommittee Report
- ◆ Public Comment
- ◆ Adjourn Meeting
 - Next meeting July 13, 2005