Status Of Phase 1 Wireless E9-1-1 In BellSouth's Territory Today

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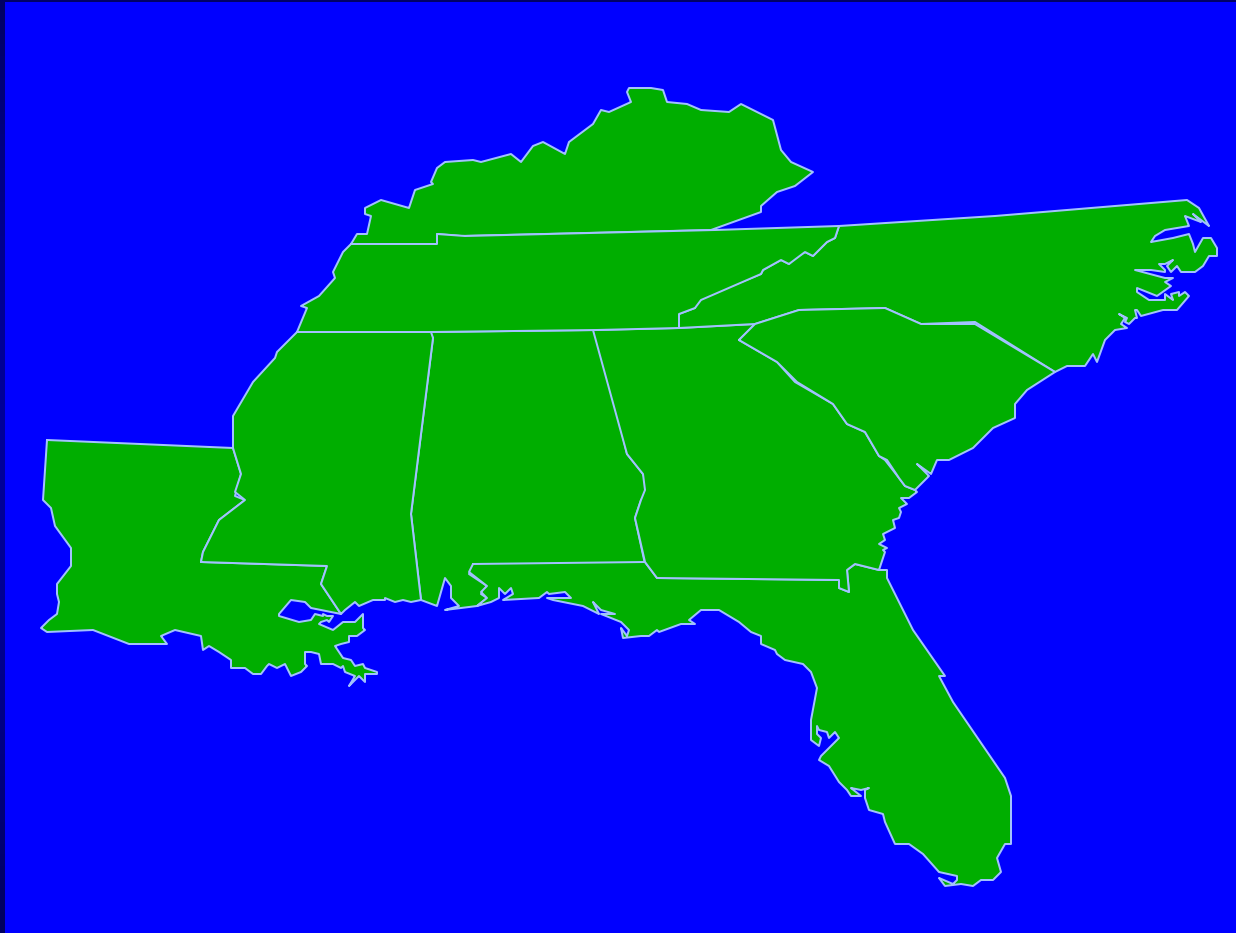
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Disclaimer

The content of this presentation is accurate to the best of my knowledge. Any inaccuracy or omission is unintentional. No one should derive any conclusions regarding the worthiness of any Solution based on the content of this presentation.

Tom Breen

BellSouth's Territory

A Quick Background
FCC Mandate Docket 94-102 (as amended)

- Phase 1

  ➢ Wireless providers must be able to provide PSAPs with cell site sector location info (pANI) and call back number (MDN) for wireless E9-1-1 calls

  ➢ Wireless provider needs to provide this only if a request is received in writing, & the PSAP can receive and utilize the data

  ➢ Wireless carriers must be compliant within six months after a qualified request is received

A Quick Background (cont.)
FCC Mandate Docket 94-102 (as amended)

- Phase 2

  ➤ Wireless providers must supply Phase 1 data PLUS the location of the caller at the time they placed the call. Location is expressed as two decimal numbers known as x, y. The x, y must be within certain accuracy parameters dependant upon the type of location determination technology in use.

  ➤ Expected to be available by October 2001 to PSAPs requesting Phase 2 compliance.

Types of Solutions

- CAS - Callpath Associated Signaling
- NCAS via "Black Box" (Non-Callpath Associated Signaling)
- NCAS via SCP
- Hybrid via Local Service Provider
- Others? (Not that I'm aware of.)

Phase 1 So Far

- Implemented as a solution for WSPs with consideration for Public Safety

- Hundreds of PSAPs in service with at least one WSP

- Works with most existing PSAP equipment no upgrade required

- Delivers FCC required information

Solutions In Use - by State
as of April 2000

Solution	Approx. quantity of PSAP agencies in service by State									Totals
	AL	FL	GA	KY	LA	MS	NC	SC	TN	
CAS	0	0	0	0	0	0	1	0	0	1
"Black Box"	0	0	0	0	1	0	0	0	0	1
"SCP"	27		10	1			9	6	55	108
"Hybrid"	46	1	16	6		7	33	30	21	160
Totals	73	1	26	7	1	7	43	36	76	270

Solutions In Use - by State
as of January 2001

Solution	Approx. quantity of PSAP agencies in service by State									Totals
	AL	FL	GA	KY	LA	MS	NC	SC	TN	
CAS	0	0	0	0	0	0	1	0	0	1
"Black Box"	0	0	0	0	0	0	0	0	0	0
"SCP"	45	10	21	17	1	0	32	15	97	238
"Hybrid"	169	47	79	7	12	35	59	54	109	571
Totals	214	57	100	24	13	35	92	69	76	810

Solutions In Use
as of April 2000 = 270
as of January 2001 = 810

THE NUMBER OF PHASE 1 COMPLIANT PSAP AGENCIES HAS TRIPLED IN JUST EIGHT MONTHS!

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Lessons Learned

- Stand Alone ALI Data Bases
  - Restricted to using CAS unless the PSAP connects to the E9-1-1 SSP's wireline ALI -DB for (at least) wireless calls
  - As an alternative, "direct trunks" into the Stand Alone ALI-DB could accomplish delivery of the Phase 1 data to the calltaker via ALI, although this may present a logistics problem in trying to connect multiple WSPs.

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Lessons Learned (cont.)

- CPE Interactions
  - Some CPE needs tweaked to allow presentation of the MDN on the ALI screen. (NCAS & Hybrid Solutions deliver the MDN in the ALI response, in the ALTERNATE NUMBER field, aka: ALT#).

Phase 2 Plans

- Most Hybrid and NCAS Solutions will be upgraded to include x,y coordinants
- ISDN is the only existing technology that would allow CAS to be Phase 2 compliant
- Other technologies "may" become capable of carrying Phase 2 data to the PSAP
- BellSouth intends to deliver x,y via ALI, although details are still being finalized

In Closing

Cooperation and Coordination are the key to a smooth implementation!

Any Questions?

Refer questions that may come up later to:
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THANK YOU!!