Evolving E9-1-1 Public Safety

AT&T Helping You Move Forward
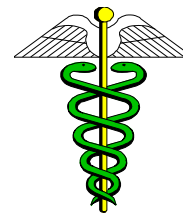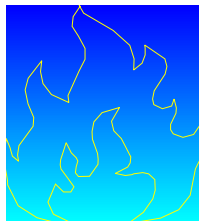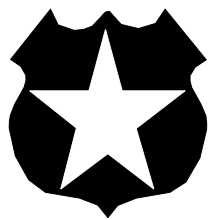
September 9, 2010

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Agenda

- Introductions

- ATT Public Safety Organization

- Market Dynamics

- ATT Public Safety Portfolio

- ATT ESInet development
  - Customer Engagements
  - Corporate Progress
  - Potential North Carolina Design

- Next Steps

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AT&T Commitment to Public Safety

AT&T offers a comprehensive suite of solutions to meet the needs of any public safety call center regardless of size, including leading-edge networks, comprehensive 9-1-1 database services, professional support systems and a wide variety of CPE packages including next generation IP-enabled controllers, intelligent workstations, time synchronization, mapping, and computer-aided dispatch. AT&T delivers fully integrated, end-to-end emergency response solutions.

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E9-1-1 Public Safety

market dynamics

Paradigm Shift

Stationary	Mobile
Local	State/National
Static data	Dynamic data
Tabular	GIS
Analog	IP
Civil Address	Much, much more
Closed systems	Secured systems
ALI Data Repositories	Validation/Routing Engines
Selective routers	Soft switches
Premise Centric CPE	Network and Hosted solutions

The Evolution from legacy systems to Next Generation Solutions

Take advantage of new and emerging technologies and data sources

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Conflicting Demands

Declining E9-1-1 funding
Increased growth in Wireless
Adoption of and migration to VoIP
Increasing 9-1-1 call volumes
Heightened need for survivability and disaster preparedness
New Technologies with 9-1-1 requirements
Interoperability demands increasing
Tremendous Public expectations – 9-1-1 anywhere, anytime, from any device

There will be more change in Public Safety Communications and 9-1-1 in the next 5 years than seen in the past 30 years!

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Delivering the Value

What AT&T offers

AT&T Public Safety Solution Set

Network	CPE (Hosted/ Standalone)	Applications	Wireless
Legacy 911 Trunks	PlantCML	CAD	Traditional wireless voice/data
Administration Lines (1FB, PRI, Centrex…)	Positron	MAP	Wireless devices (Phone, smartphone, aircard)
IP Transport (Ethernet, MPLS, SONET)	Solacom	RMS/JMS	Asset Management (RFID, AVL,…)
ESInet (NG 911)	microDATA	MRM	
	Nice Recording	PocketCop	
	UPS	Database Management	

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Next Generation Discussion

What AT&T offers

AT&T Next Generation 9-1-1 Development

- Participate and contribute to development of standards
  - Key policy board leaders and contributors
  - Extensive ATT Public Safety participation nationwide
- Real World Proof of Concept Development
  - Joint development with progressive customer
  - Successful test end to end 9-1-1 call flow, including PIDF-LO
- ICE 2: Test NG9-1-1 Transitional Elements: Hosted by AT&T in Irving, Tx week of May 24
- Recent RFP wins
  - Brevard County, Florida
  - Palm Beach County, Florida
- Variety of customers nationally negotiating/contracting ESInet services with ATT

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NextGen Networks

AT&T Emergency Services IP Network (ESInet)

Features

- ➢ Replaces legacy Selective Router
- ➢ Provides Redundancy and Diversity
- ➢ Facilitate information sharing
- ➢ End to End IP based solution
- ➢ Interfaces with legacy TDM or IP PSAPs
- ➢ Integrates ALI data with Voice for delivery to the PSAP
- ➢ Native SIP with PIDF-LO to IP capable PSAPs
- ➢ IP enabled transport (State IP Networks, SONET, MPLS, AVPN, EVPN)
- ➢ Network of Networks
    - ➢ Legacy Networks, Local/Regional Networks, other NG Networks
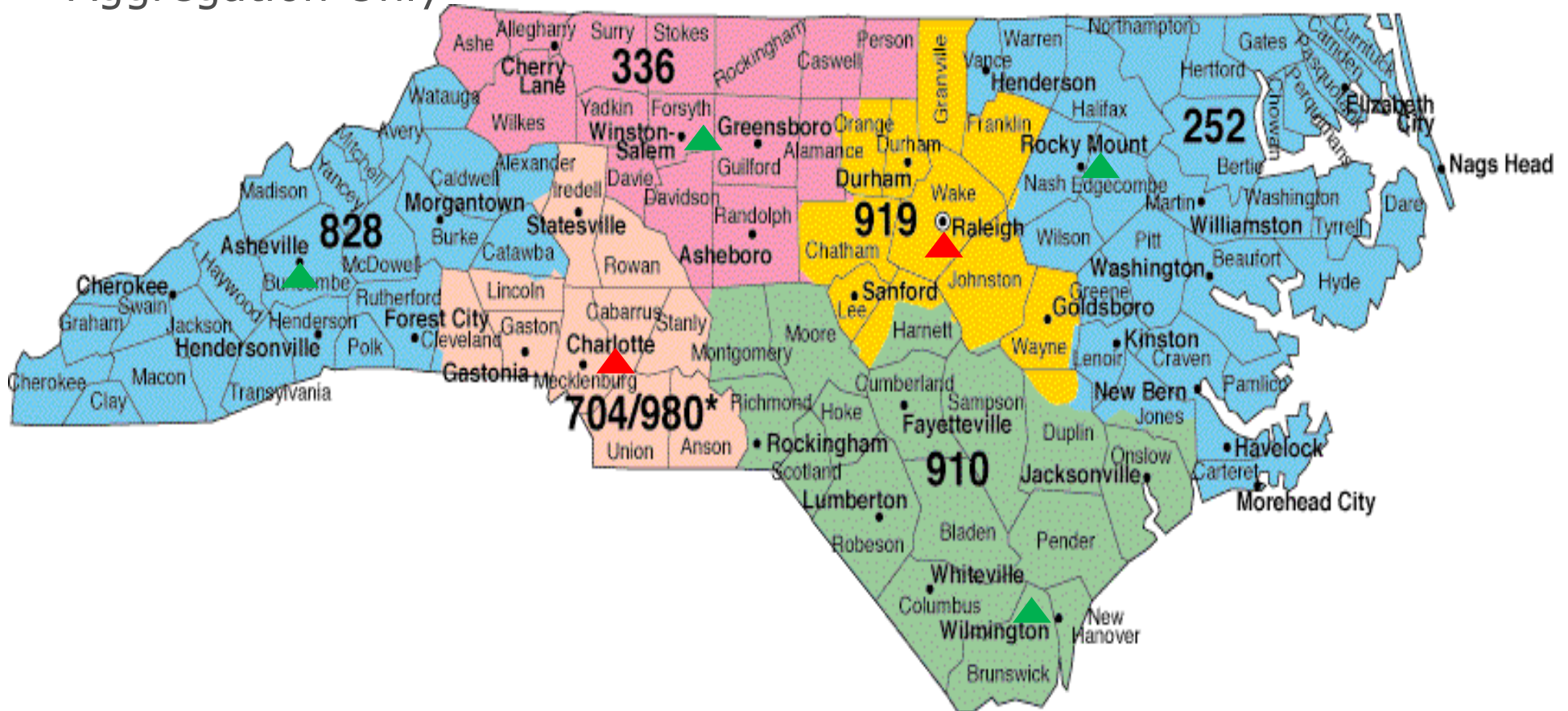
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Potential State of North Carolina ESInet Design

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North Carolina....
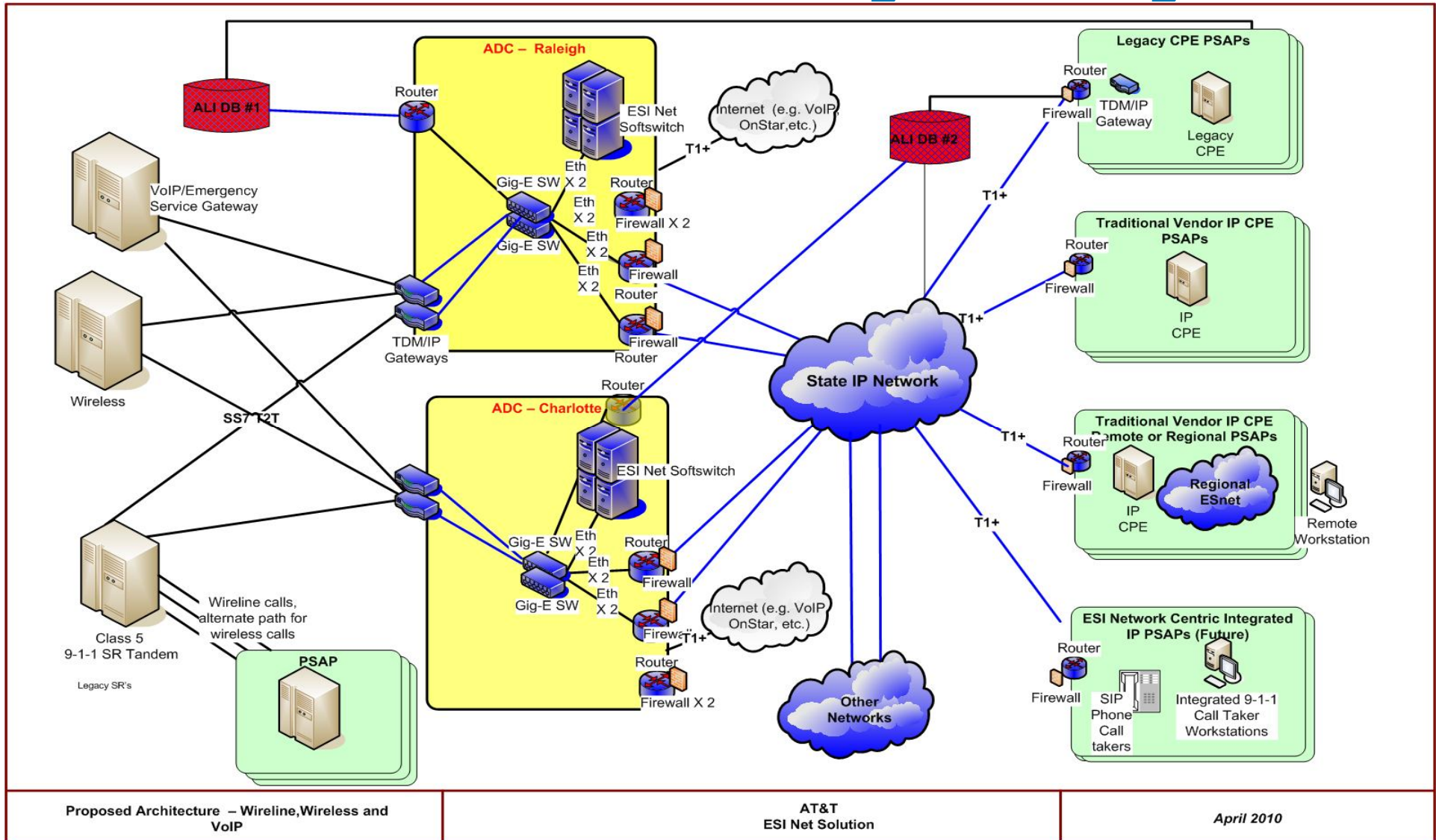
▲Network Control Center & Aggregation

▲Aggregation Only

North Carolina Potential Logical Design

Thank you

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