Oregon State Police

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Background

By the Numbers...

1,500 Employees
700 Sworn officers
500 Patrol vehicles
45,000 Square miles patrol area

Bureaus...

State crime lab
Medical examiner
Automated Fingerprint Information System (AFIS)
Law Enforcement Data System (LEDS)
Sex Offender Registry
2009 OSP Mobile Data Systems
Where we want to go…

- Electronic submission to courts, RMS etc.
- Statewide price agreements to enable access
- Homogeneous network connectivity
- Transparent message exchanges
- Advanced statistical analysis
- Mobile AFIS
2011 OSP Mobile Data Systems
Value Statement

• Technology:
  – Using good technology to provide value
  – Use application space as point-to-point
  – Get more value from technology (reduce costs, accessibility)

• Partnerships:
  – Enable data sharing, cost reduction (price agreements), contracts, etc.

• Infrastructure:
  – Develop systems, software & processes to support these goals
Barriers
Political and Financial Issues

• Prohibitively expensive for small agencies
• Political barriers need to be addressed
• Extensive technical expertise required
• Perceived loss of control
• Lack of collaboration (silos)
• Procurement issues
Connectivity Issues

- Geographically diverse
- Connectivity sparse in remote areas
- Variety of solutions difficult to manage
- Transports constantly evolving
Homogeneous Networks

- Redundant connections all over the state (LEDS, AFIS etc.)
- Duplicated efforts for access (VPN)
- Current networks are not service oriented (i.e. mobile phones)
- LTE (4G) will be game-changer
- NetMotion, LEDS, AFIS, NCIC…all services in the cloud
Security Issues

- LEDS security, data security
- Security modeling difficult, many security domains
- User community frustrated and confused
Resource Issues

• Resource Issues dominate
• Support load heavy
• Systems and platforms not homogeneous
• No focus on “core” law enforcement activities
Solution Space
Commercial Connectivity

- Commercial carriers expanded WiFi
  - Strategic partnerships with other agencies
  - Similar to “dead” radio spots
  - Multiple carriers, multiple technologies burdensome
State Owned Connectivity

- SRP under development, abundance of backbone BW in remote areas
  - WiMax solution available up to 30 miles from towers
  - WiFi transport across other state/local agency networks
The Connectivity Fabric

- *What* is the Fabric? (ie. Cloud)
- *What* services are offered?
- *Who* needs access to these services?
- *What* types of partnerships with other Public Safety / Law Enforcement agencies?
- *What* technology enables the CLOUD?
Server-Side Management

- Applications
- Security management
- Centralized
- Service configurable (socket, application etc.)
Current State
Mobile Data Program

• Computer Assisted Dispatch (GIS, GPS etc.)
• Electronic Citations & Court Submission
• Field reporting (reduce transit time considerably)
• Mobile query
Connectivity

- Transport independent & technology agnostic (IP)
- WiFi expansion
- WiMax expansion
- IP Radio (yuck)
- 3G/4G transport
Foundational

- Electronic submission to courts
- Electronic case management (RMS)
- Enterprise Services Bus (ESB) to broker data exchanges and collect statistical data
Security

• Integration & Reduction of security domains from 7 to 2. Active Directory platform
• Role based security
• Connectivity, I.T. & Application domains being flattened
• Considerably reduce support requirements
Resourcing

• Shift resources and resource planning
• Stop doing things we aren’t good at
• Remove upper (project management etc.) and lower (help desk, ticketing) from mix as much as possible and focus on CORE law enforcement solutions
• Build expertise where it can’t be purchased
Future State
Future Applications

• Video Streaming Becomes Real under 4G
• Mobile Identification (AFIS)
Enabling Technologies

- Mobile VPN
- Transport independent solutions.
- Remove connectivity disparity issues
- Server side management
- Auditing
- High degree of security
Conclusions

• Leadership with vision is crucial
• Public Safety needs partners, not just vendors. Form relationships
• Focus on what you can do, outsource what you can’t
• Use proven technology...not “bleeding edge” or “vaporware”
• Be realistic
Thank You!

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