Cisco Connected Public Safety and Justice Reference Architecture

Connected Public Safety and Justice
The Cisco Public Safety and Justice architecture integrates mission and technical requirements to provide capabilities to improve connectivity, communications and collaboration.

The IP Mission Fabric interconnects agencies and field personnel beyond conventional communications capabilities, enabling them to:
- Integrate wired and wireless technologies (LMR, Wi-Fi, public 3G and 4G, private 4G, satellite)
- Support existing and next-generation mission-critical voice video, and data application convergence
- Deliver quality of service (QoS) and information assurance using integrated network services at the tactical edge

Includes
- Connected Border
- Connected Law Enforcement
- Connected Defense
- Connected Education
- Connected Justice

Outcomes
- Safer community
- Agency collaboration
- Faster response
- Operational efficiency
- Reduced costs

Applications
- Geospatial information system
- Common operating picture
- Situation awareness
- Video surveillance
- License plate recognition
- Facial recognition
- Biometrics
- Blue force tracking
- Remote interpretation

Public Safety Agency
Remote Office
Telework CID

Mobile Command Center
and Emergency Communications

Land, Air, and Sea
Mobile Vehicles

Mobile Agents and Wearable Communications

Citizen Services
- Citizen Services Sensors
- Secure Information Sharing and Collaboration
- Connected Justice
- Connected Defense
- Connected Law Enforcement
- Connected Border

Sensors
- Video Surveillance and Services
- Falcon

Big Data, Middleware, and Analytics
- Big Data Storage
- Predictive Analytics
- Threat Analytics
- Social Media
- Mobility
- Call center logs
- High value, cleansed, indexed
- Descriptive/Historical
- Customer, sales, stock records

City/County/Country
Government

Public Safety Agency

Megathread Internal Portal

Mission Fabric

Multilayer Ethernet Switching

Public Safety Agency

Intranet/Extranet Portal

Fusion Center
PSAP/EOC

City/Regional Optical Network

Sonnet/DWDM/MetroE

FC FC

FC FC

FC FC