

Capabilities Overview

The SRI Mobile Mesh Technology Solution

System Features/Benefits

- DynaMesh™ Software
- SRI Aware™ Applications
- System Management Center
- Mesh Exchange

Instant broadband network

- Self-forming – Mesh network forms instantly and adapts automatically as users come into range
- Survivable – Provides communication without network infrastructure
- Highly scalable – The network becomes more resilient as new users join; no practical limit on the geography, number of users or agencies
- Excels at mobility – Mobile nodes can join and leave the network
- Autonomous – Works with or without connections to the Internet
- Performance – Proactive routing provides dependable network performance reduces latency and increases data throughput

Software-based networking

- Industry Standards – Works with standard off-the-shelf 802.11 a/b/g, 4.9 GHz and cellular data radios
- Reduces cost – Freedom from expensive infrastructure deployments substantially reduces costs
- Easy to deploy – Installs on standard laptops and servers; does not require towers or wireless access points to deploy and operate

Video multicasting

- Protocols optimized for video streaming
- Optimized QoS (Quality of Service) for video transmission and multicasting
- View multiple videos from multiple sources over multiple hops in the mesh
- Multicasting greatly reduces the required bandwidth for every camera

Standards-based design

- Compatible – Works with readily available IEEE 802.11a/b/g commercial off-the-shelf radios to substantially reduce costs
- Future flexibility – Designed to be compatible with future standards such as 802.11s, 802.11n and WiMAX

Multi-layer security

- Industry standard WPA2 authentication
- AES encryption and secure tunneling (VPN)
- Application layer security with rolebased user permissions
- Strong security – Designed to be NIMS and FIPS 140-2 compliant

Works with existing WiFi infrastructure and cellular data networks

- High & low bandwidth remote participation – Cellular data or WiFi infrastructure, such as municipal WiFi, can be used to provide backhaul
- Can be used to backhaul data when a backhaul connection is available. Connection to backhaul is not required for local mesh connectivity
- Remote participation – Remote personnel can participate as if they are on scene
- Provides redundant connectivity over multiple backhaul networks

Interoperability

- Agencies providing mutual aid or working on common projects who have disparate radio systems can use the SRI Communication System to interoperate, streamlining the mutual aid processes and communications and making personnel more effective

Integrated Aware™ applications for public safety and municipal services

- Real-time multicast video
- White boarding
- Mapping and GPS resource location tracking
- Instant messaging

Integration with CCTV or other networks

- Integrates with CCTV and IP video systems providing the ability to securely export video outside of a building to public safety and/or private security