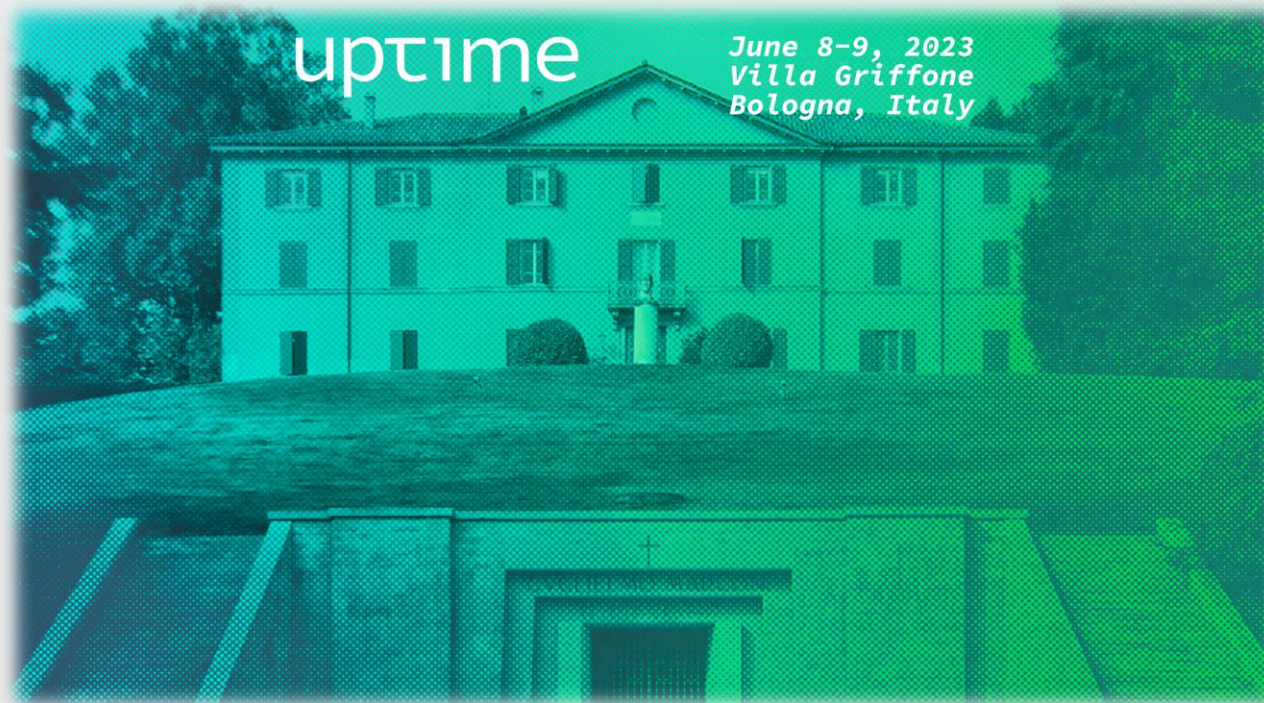




Eitan Idelson

Co-Founder and managing partner



Agenda

- About us
- Our Sphere of activity in private networks
- Use cases
 - Robotic logistic center
 - Fire-rescue; federated system
- Way forward

About us

- Boutique telecom integration house
- Founded in 2013 by ex-Nokia Israel executives
- Providing mobile telecommunication engineering services
- Delivering mobile communication projects
- Established  - subsidiary positioned as a private-networks integrator

Our sphere of activity

Materializing on our main assets

- Expertise in Mobile network technologies
- Established partnership with mobile operators and international homeland security companies
- Strong relationship with the ecosystem players (e.g., xPTT, backhauling, end-devices, NMS etc.)

Our role as integrator in the private network space

- Network Planning & Design - Assess coverage and capacity needs => Design network architecture
- Network Deployment and integration – Installation, configuration and integration
- Network Security: Implement robust security measures (firewalls, encryption and access controls)
- Network Management and Monitoring – Remote multi-tenant NOC
- Maintenance and support - Troubleshooting and optimization

Use case I – Robotic logistic center

Goal - Improve latency

- ❑ Customer - Robotic technology company operating retail logistic centers around the world
- ❑ Existing situation - Operational sites based on Wi-Fi 6 and leaky cables, 100-300 robots per site
- ❑ Challenges - Latency picks which cause bottlenecks in robots' operations => reduced efficiency

Solution - Implement an LTE private network

- ❑ Core – Athonet's EPC
- ❑ Radio – E///'s indoor site + spread indoor antennas
- ❑ MOCN architecture (Due to local regulation of network neutrality)
- ❑ Integration activities - Robots management system, firewalls , switches and operator's NOC

Result : ~100 robots running 24/7 with significant latency improvement
(Less than 50ms for round trip with 100kb transfer of data every 150ms).

Logistic Center efficiency improved by 7%



Use case II – Fire-rescue federated systems

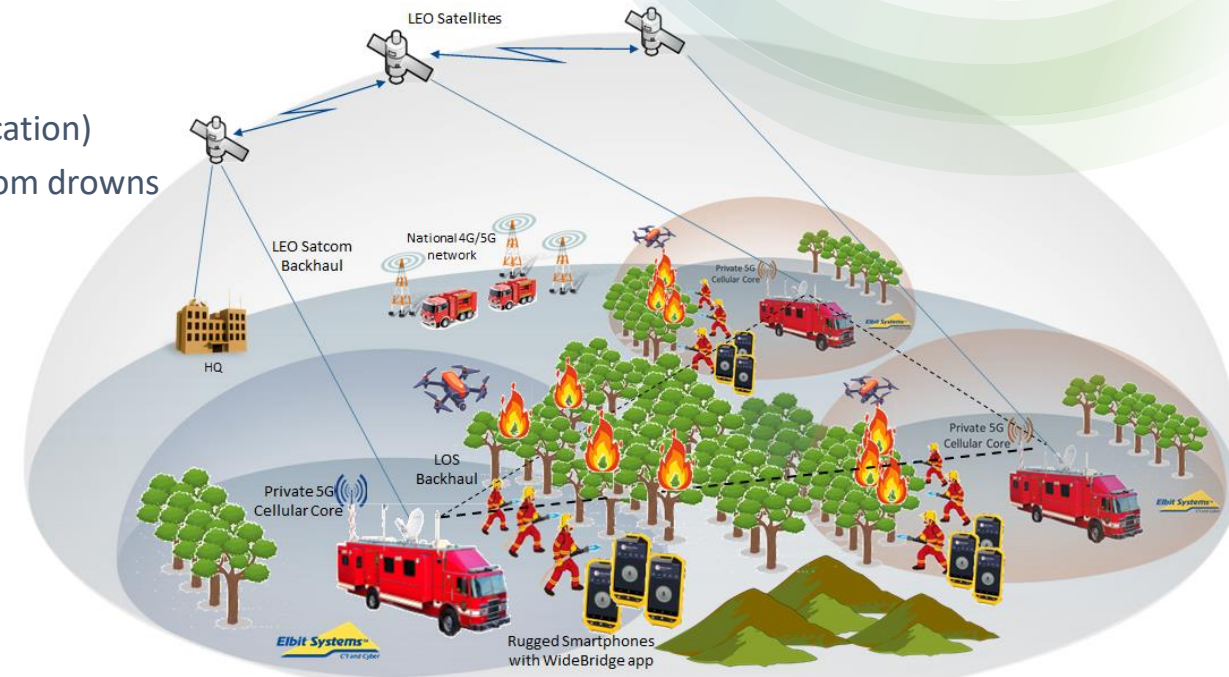
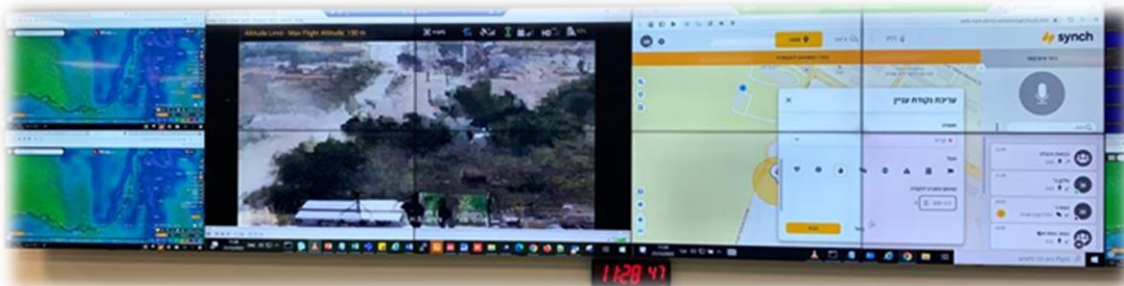
- **Goal - Improved data communication**

- Customer – Israeli fire-rescue
- Existing situation – Communication based on narrow-band Motorola devices.
- Challenges – Lack of integrated data communication

- **Solution**

- Implement 5G **federated** private networks
 - Core – Athonet's 5G-SA core
 - Radio – BTI wireless (N78)
 - Backhauls - RADWIN MW (potential adding satellite communication)
 - Used applications – Elbit's xPTT application and video steam from drowns

- **Result** – Improved converged voice and data communication



Way forward

- Experiencing significant market interest
- Numerous activities in various domains:
 - 5G-SA for a VR based first responders training center (replacing Wi-Fi)
 - Municipality implementation - Drown and camera video streaming + PTT service
 - Expansion in additional robotic logistic centers
 - Border control system (PTT, cameras etc.)

Next year will be able to present additional exiting use cases

Thank you

