Overview

- Management technology strategic consulting services
- Team of industry and academic experts
  - Wireless and mobile technologies (RFID/ZigBee/WiFi/LTE/WiMAX)
  - Founded (2004) and led by Dr. Jacob Sharony, a 25+ years veteran in wireless networking, mobile computing, and information technology
- Clients
  - Service providers/operators
  - Systems integrators
  - Equipment vendors
  - Enterprises in various vertical markets
Areas of Expertise

• 4G/LTE/WiMAX
• WiFi – 802.11b/g/a/n/ac
• Small-cells and spectrum management
• MIMO and smart antennas
• VoIP/Video streaming over WLAN
• Data capture technologies
• Enterprise Mobility
• ZigBee – 802.15.4
• RFID and Wireless Sensor Networks
• RTLS – location tracking
• QoS/Security
• Mesh (ad hoc) and tactical networks
• Mobile applications and services
Services

• Technology management and strategic consulting
• System analysis, modeling and simulations
• Network architecture design
• Algorithms & prototype development
• System integration
• Research / position / white papers
• Product evaluation / competitive analysis
• Education and training
• Project management
• Expert witness
Select Projects

- Small-cell LTE-WiFi heterogeneous networks for enhanced capacity & coverage
- Wireless data collection for field applications using ZigBee/WiFi/WiMAX
- Asset and specimen tracking in healthcare, using RFID and WiFi
- Lab automation using ZigBee, RFID and WiFi technologies
- Multi-radio architecture for wireless mesh network
- Comparative study of 4G wireless technologies (LTE, WiMAX)
- Synchronization of mobile-WiMAX base stations
- VoWLAN capacity and admission control
- Bandwidth management in WLAN’s
- Reliable multicast wireless video streaming
- Interactive multimedia mobile applications
- Mobile device security and biometrics
- Mobility effects on WLAN’s using MIMO technology
- System issues with MIMO LAN’s - Roaming
- Energy efficient mobile systems
- Mesh network architectures
- Improving RFID reading reliability using MIMO
- Sensor networks for security
Dr. Jacob Sharony
Founder and Principal Consultant

- Ph.D. EE, Columbia (‘93), MBA, Tel-Aviv University (‘89)
- Visionary, innovator with strong analytical and systems skills
- Over 25 years experience in diverse technology disciplines
- Adjunct Professor EE, Columbia University
- 2006-2010 Director, Center of Excellence in Wireless and IT, Stony Brook University
- 1997-2005: Motorola – Sr. Director R&D and Technology Strategy
- Past: BAE Systems, NEC Research Institute, IBM Research, Captain in Israeli Air Force
- 40+ US patents issued or pending
- Numerous published journal/conference papers
Clients

• Telecom operators and service providers
• System integrators
• Equipment vendors
• Enterprises in various verticals (healthcare, energy, transportation,…)

TIME WARNER CABLE  NORTHROP GRUMMAN  mobile access Networks
The Plaza  NALCO  Powerwave technologies  URS
Symyx  WiLAN  RFMD  Ford Foundation  Symmetricom