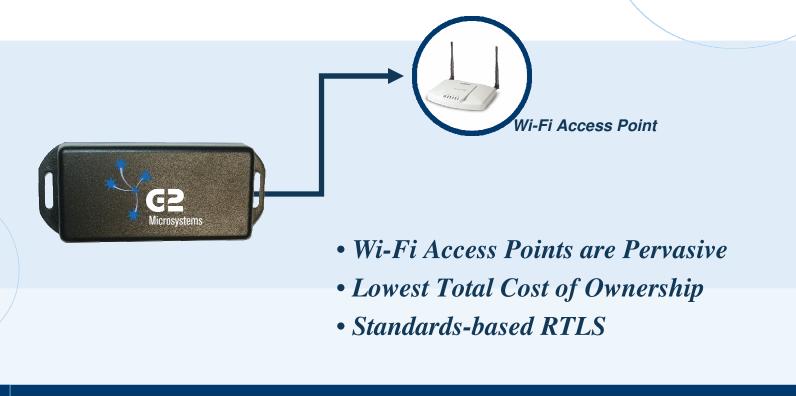


within your Enterprise or Across the World

www.g2microsystems.com



G2 Microsystems Enables Active Asset Tags that Locate and Communicate through Wi-Fi



www.g2microsystems.com



G2 Microsystems Enables Active Asset Tags that Sense Environmental Conditions

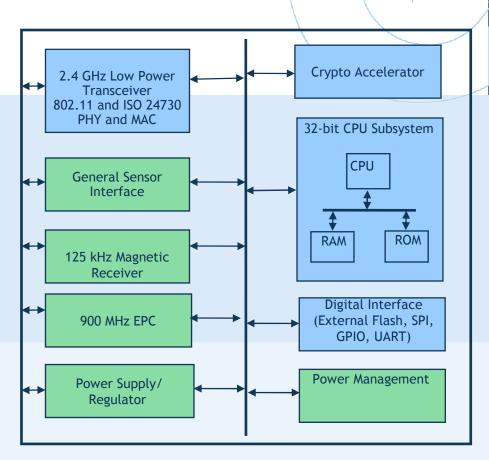


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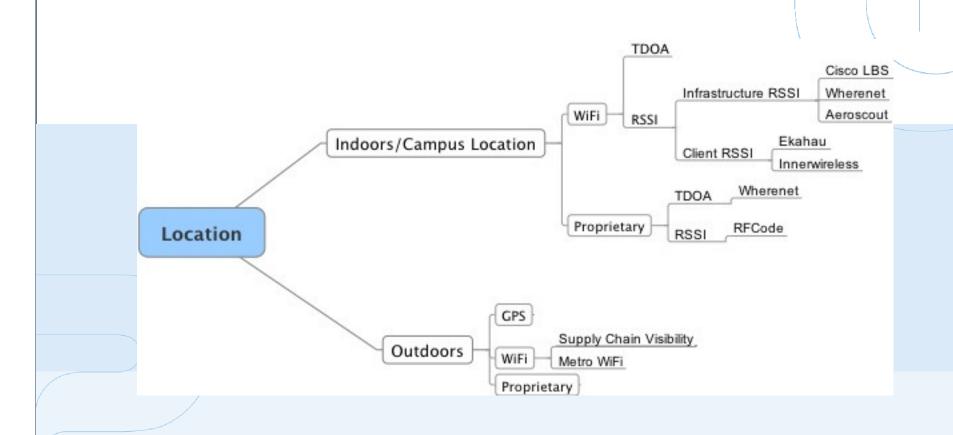
G2's Ultra Low-Power Wi-Fi

- Optimized for battery-powered devices
 - Power management results in <3μA in standby
 - Optimized boot process: <10 msec boot time from standby to active mode
 - On-chip regulators account for ~100mW system power consumption with competitive solutions.
 - Receive power is best in class.
- High level of Integration
 - Integrated 32-bit CPU with multithreaded eCos OS and TCP/IP stack built into ROM allows SoC to serve as host processor
 - Directly supports multiple battery types
 - Application specific functionality drives lower system cost and form factor.



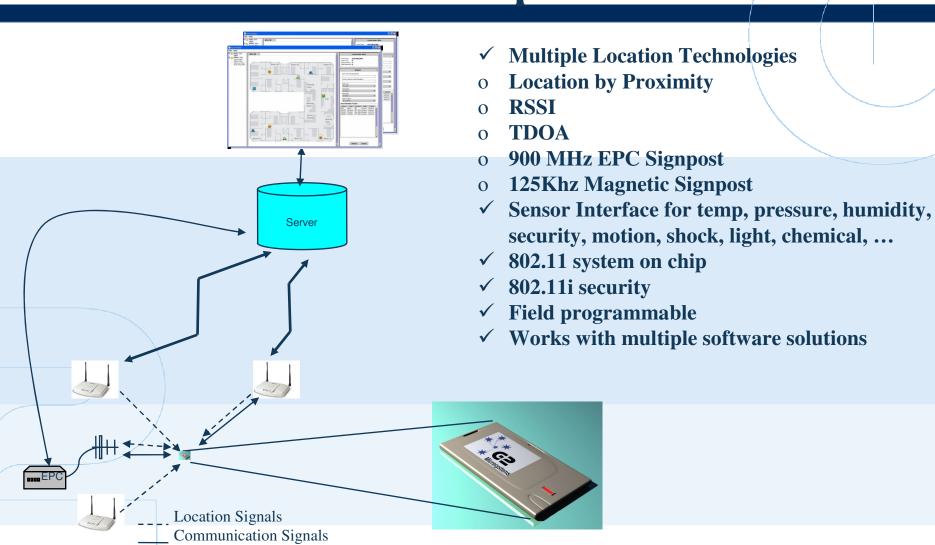


Location Taxonomy



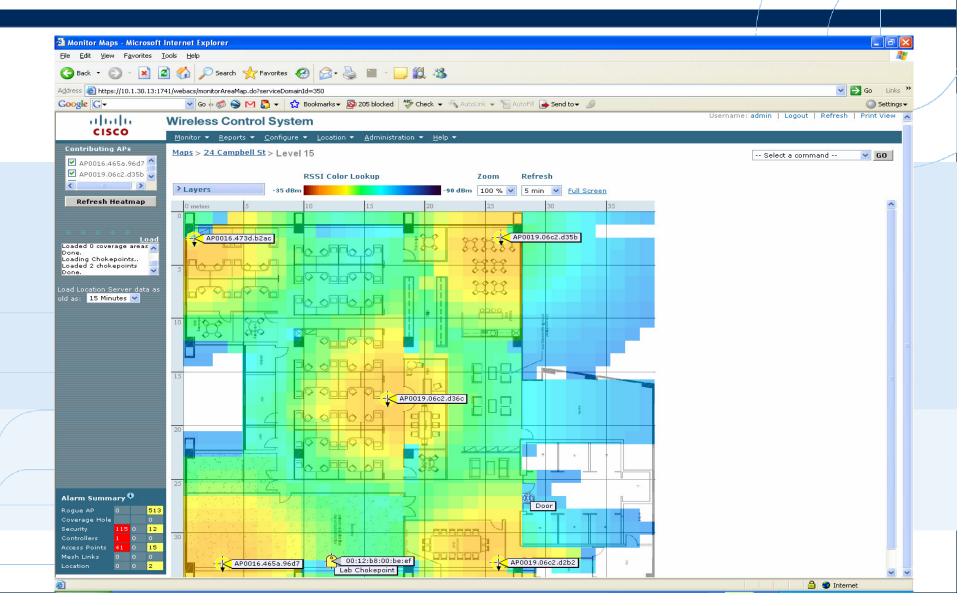


Markets Indoor and Campus Location





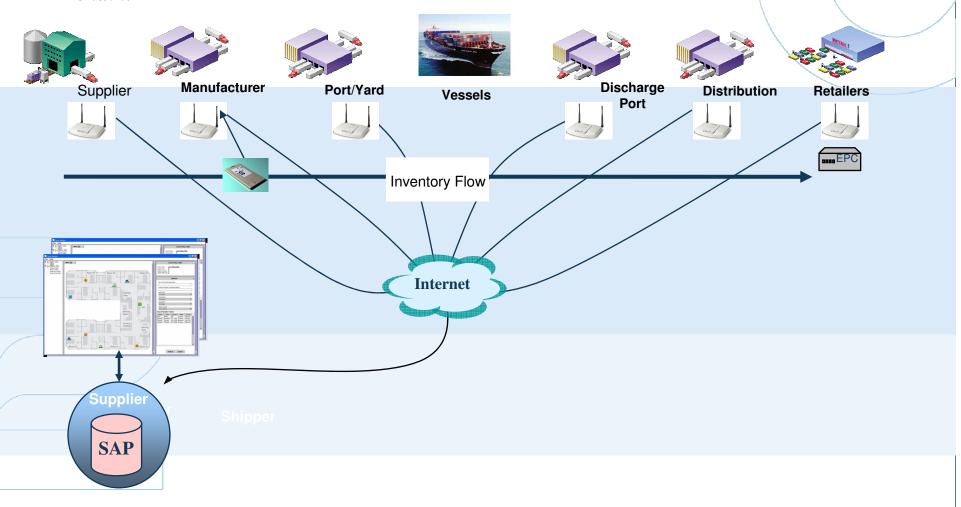
Example RTLS System





Markets Supply Chain Visibility

Supply chain visibility requires seamless flow of information to partners across the supply chain.





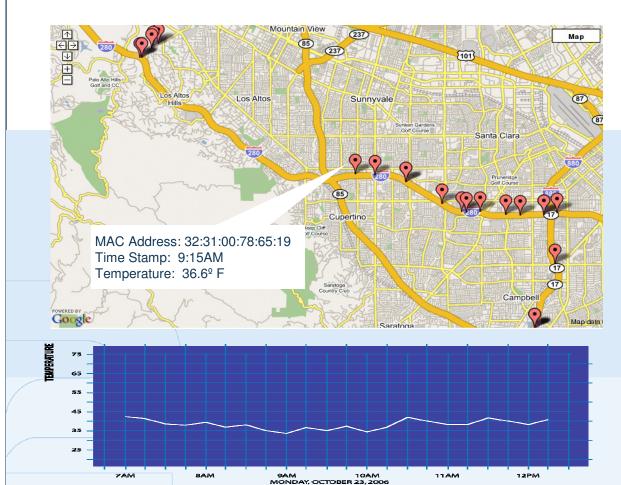
Telemetry over EAP

- Solves a significant supply chain problem
 - Allows location and sensor data to be sent to tag owner (and other interested parties).
 - Does not need middle-ware integration at remote sites
 - Low security impact at remote sites
- An extension of EAP-TLS (industry standard) or EAP-FAST (Cisco supported)
 - All the security of certificates and PKI infrastructure
 - Revocation of security credentials on a per tag basis
 - No pre-shared key distribution hassles
- Supports session resumption for very long lived session-ids
 - Dramatically reduces power consumption in the tag while retaining certificate based security
- Telemetry data is sent inside TLS tunnel
 - High security the tag never needs to be granted normal network access to transfer telemetry data
- Simple one-off configuration at target sites
 - No on-going key management issues within the supply chain at remote or partner sites
 - All key management contained to tag-owner's site



DATE & TIME

Access Point to GPS Coordinate Databases Metro WiFi



WiFi based location systems can:

- Achieve GPS level accuracy in metropolitan areas.
- Monitor conditions continuously between OD pairs.
- Report conditions remotely without backoffice integration or costly GPRS charges.
- Work seemlessly across the world.



G2 Microsystems

G2 Microsystems designs ultra low-power asset tracking integrated circuits and tags that leverages the global 802.11 infrastructure to locate, sense and track assets.

- ✓ High level of functionality to meet user requirements
- ✓ Transparent tracking across the supply chain
- ➤ Multiple location technologies
- > Environmental sensing
- ➤ Versatile field programmable, secure communication
- ✓ Multi-year battery life
- ✓ Low Total Cost of Ownership (TCO)