



Acurix Networks LP

30 Sep 2013

Carrier-Grade

Metro Wi-Fi

Wi-Fi Offload

Campus Wi-Fi



Next generation wireless networking
Security & surveillance networks

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Acurix Networks Overview

About Acurix Networks



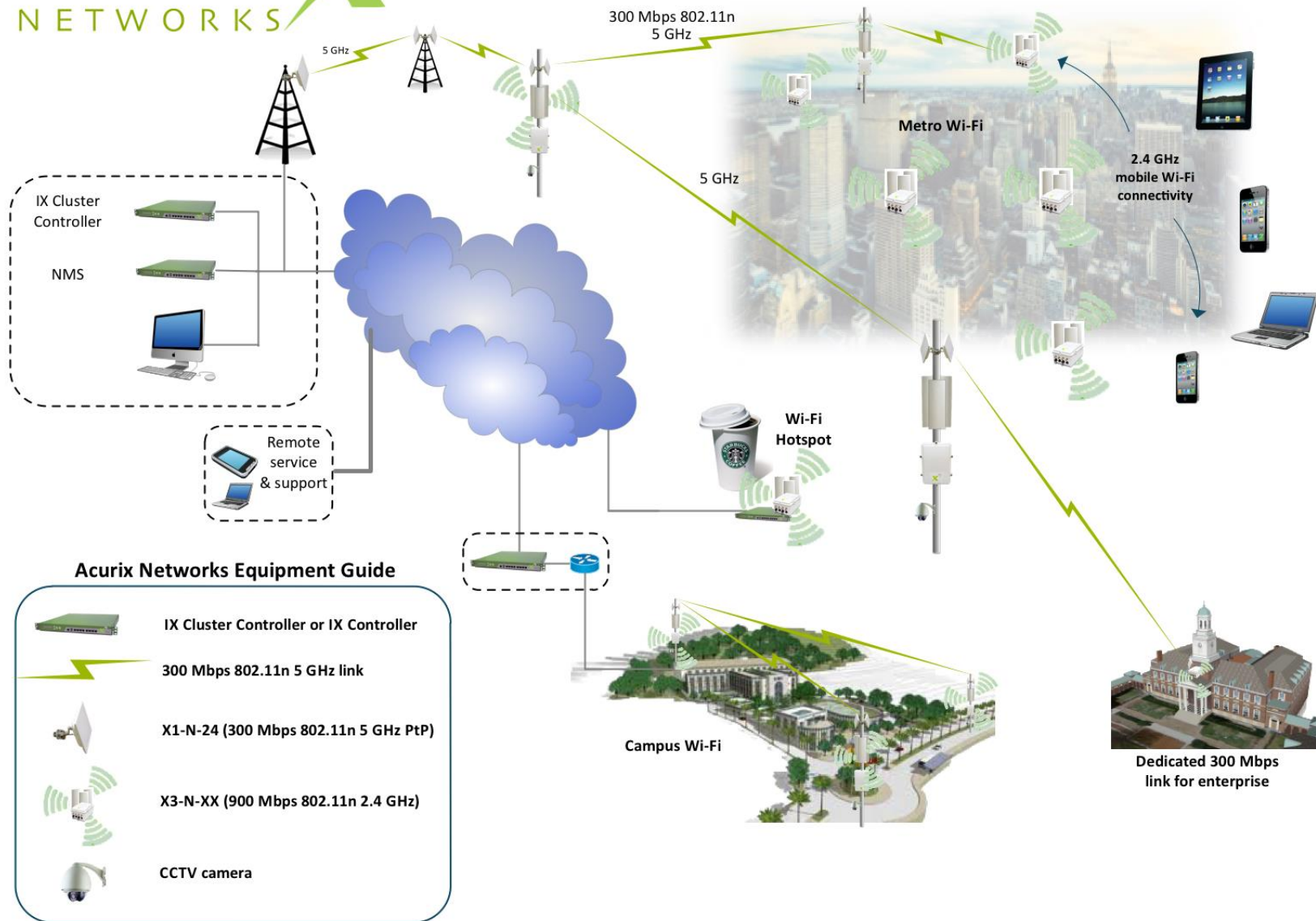
- Headquarters in Perth, Australia
- Development in Australia, New Zealand, Poland and USA
- Hardware assembly in Asia
- Acurix Networks is delivering solutions to meet the growing demand for Wi-Fi offload & improved performance, throughput, and utility on wireless networks
- Founders have >25 years experience in design and supply of wireless networks and CCTV/video surveillance solutions

Solutions



- Metro Wi-Fi networks
- Wi-Fi Offload
- Fixed wireless networks
- Campus Wi-Fi networks
- Point-to-point solutions
- Hotzones
- CCTV/video surveillance networks

Metro Wi-Fi, Campus & CCTV network solutions



Metro Wi-Fi



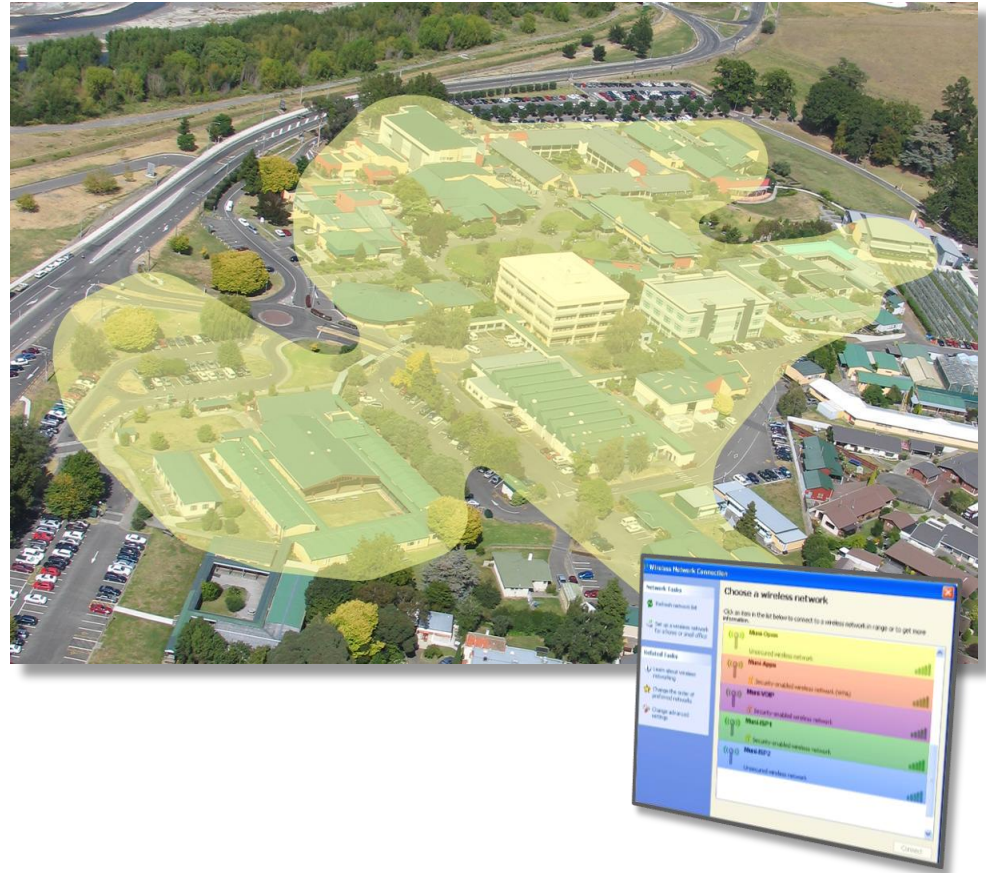
- 3D cocoon of coverage
- Support for multiple SSIDs/VLANs allowing multiple virtual network operators to be supported
- Better leverage network assets – single set of infrastructure with multiple service providers
- Target high density areas
- Voice, data and video applications
- Full mobility support
- Fast network payback (<1 year)
- Support for Wi-Fi offload



Campus Wi-Fi



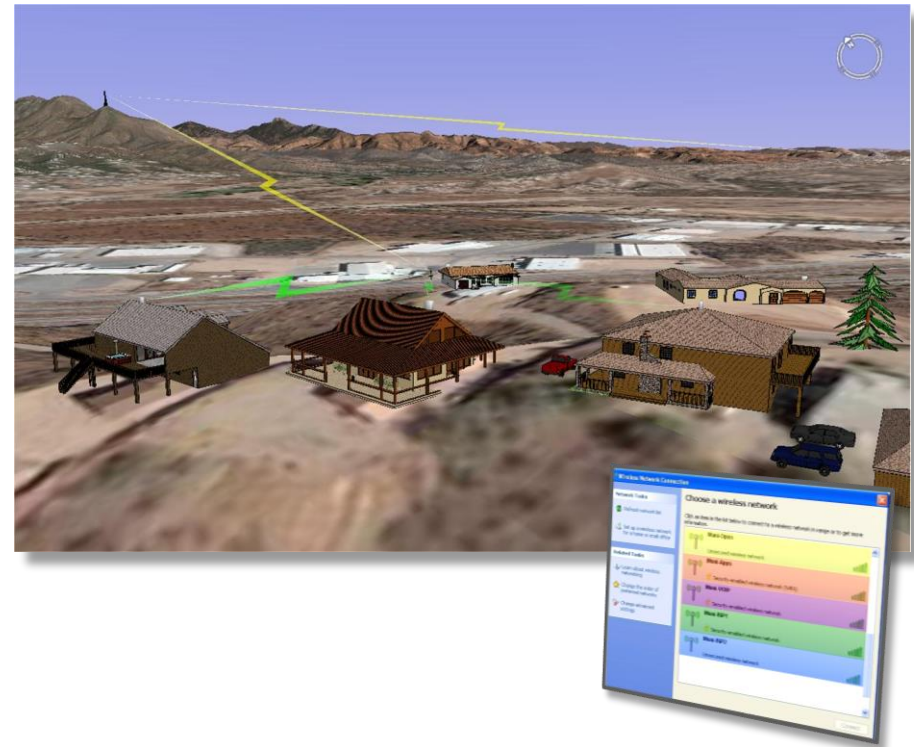
- Cover >95% of campus with Wi-Fi
- Separate virtual networks and secure VLANs for
 - Staff
 - Students
 - Visitors
 - Voice/data/video
- Different security profiles



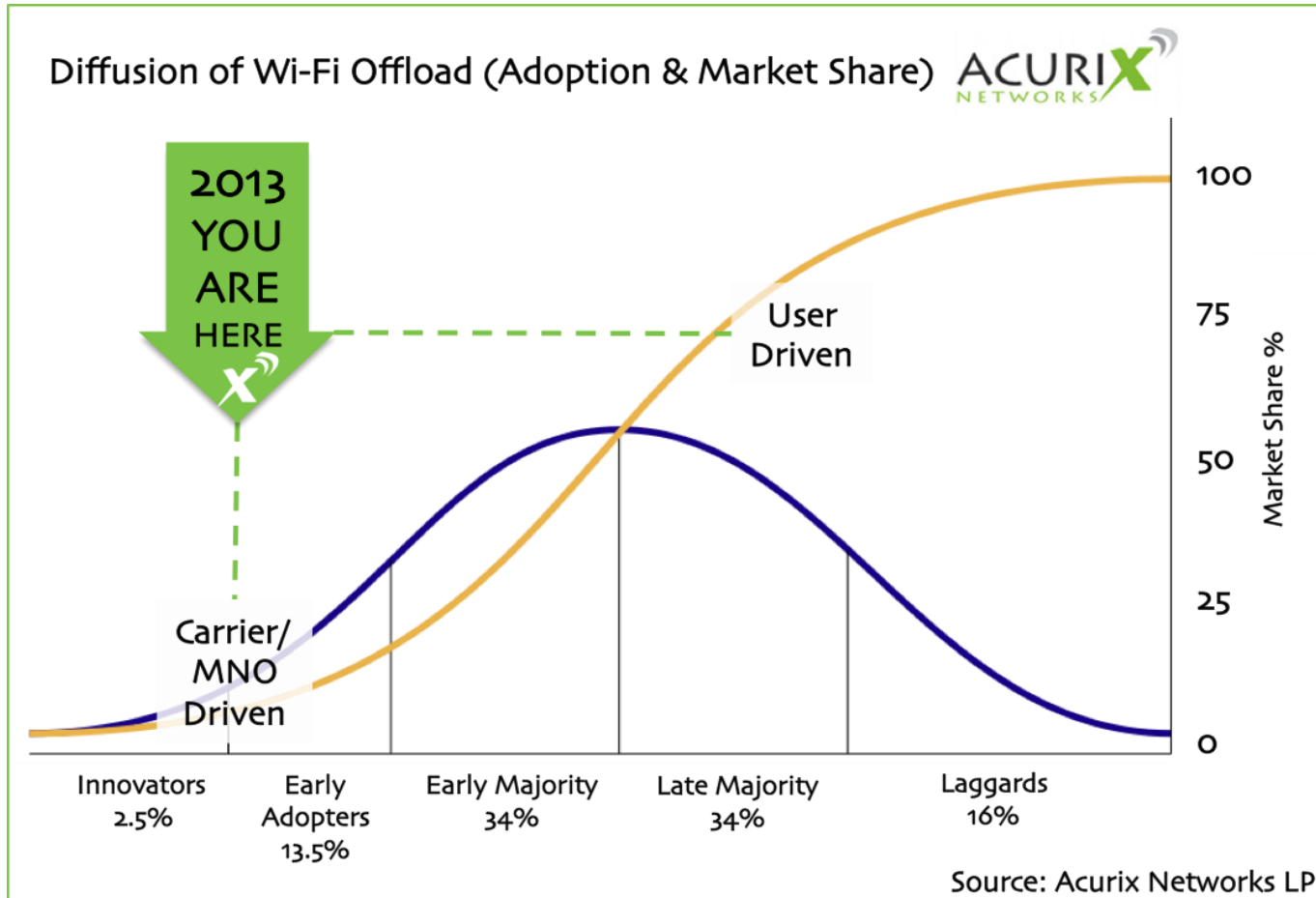
Fixed wireless



- A complete solution for areas with little or no existing infrastructure
 - Wi-Fi (2.4GHz and 5GHz)
 - Point-to-multipoint
 - Easy CPE installation, management and monitoring
- Key features
 - Support for voice, data and video
 - POS backhaul
 - CPE rate limiting and QOS
 - Virtual networks/Wholesale services/WVNO support



Carrier-driven Wi-Fi offload in its infancy



- Carrier-driven Wi-Fi offload is in its infancy
- It will drive adoption and the roll-out of carrier-grade, large-scale Wi-Fi networks



Large metro Wi-Fi zones or hotspots?

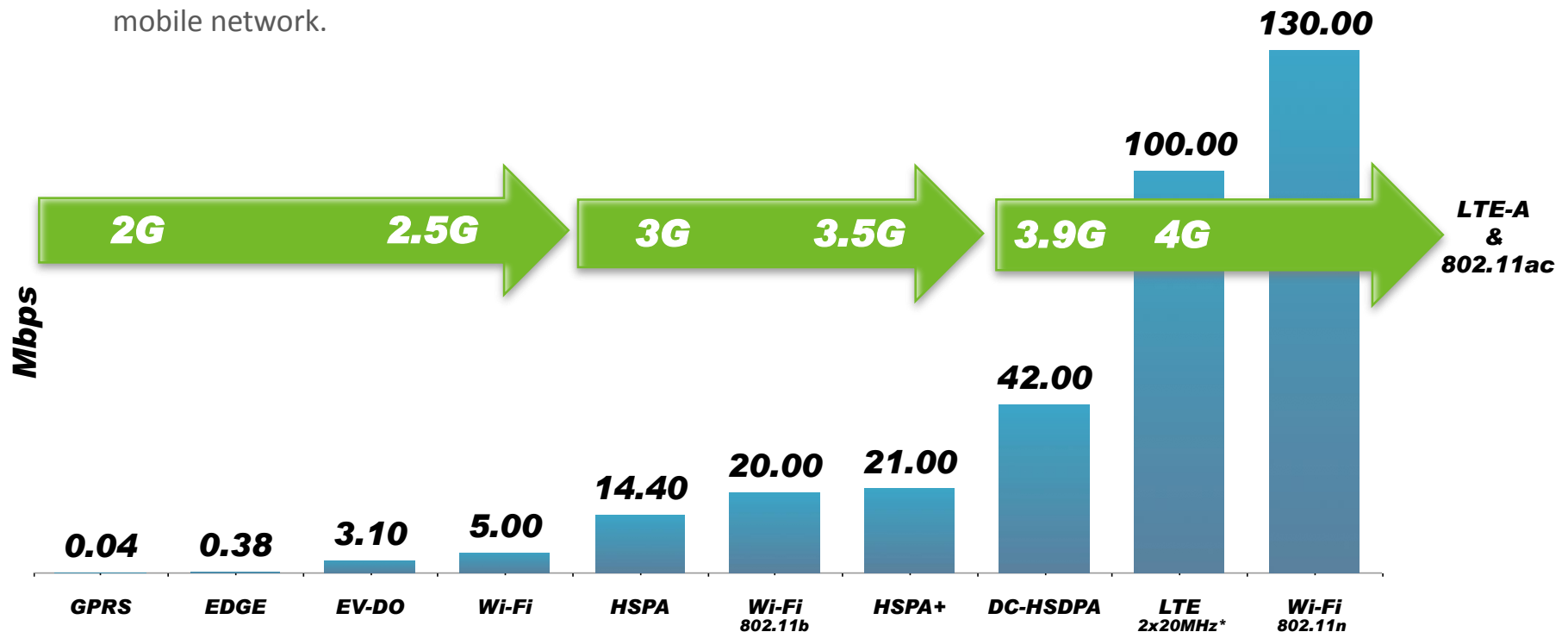
Large-scale metro Wi-Fi zones (a single set of infrastructure) provide more certainty and a better user experience than hotspots

- Mobile subscribers today use Wi-Fi at home and at work and at scattered, disaggregated hotspots around town-centers, normally using different logins credentials and/or Wi-Fi SSIDs.
- The Wi-Fi hotspots are often hosted in third-party interior locations such as cafes, are not reliable, and coverage does not extend far from the actual access point.
- The disaggregated hotspot method is complicated for the customer and there is no certainty as to whether Wi-Fi will be available (or seamless to use) in the right place at the right time – i.e. places where people aggregate, congregate, transit and spend time.
- Large-scale, carrier-grade metro Wi-Fi zones (with indoor, outdoor, 3D cocoon of coverage). This gives subscribers more certainty of access and quality experience.

Wi-Fi speeds are faster than 4G/LTE



- Current 802.11n/Wi-Fi networks deliver actual speeds of 130Mbps per radio, nearly 2x that achieved commercially today by 4G/LTE networks¹ & for a fraction of the cost
- Nearly all mobile devices today have Wi-Fi, whereas only a fraction have 4G/LTE (although this is growing)
- 3G, 4G and Wi-Fi can be used in concert with each other to provide an improved and more cost-effective mobile network.



¹ LTE using 2x10MHz of 4G spectrum

² Note that most mobile operators with access to 4G/LTE spectrum only have 2x10MHz of spectrum available for 4G/LTE, which gives a theoretical maximum throughput of 73.6Mbps. This is significantly less than Wi-Fi (802.11n which is 130Mbps of actual throughput per radio. Most of the sites will have 3 radios per node available for access, delivering a usable throughput of 390 Mbps per site (assuming fibre backhaul)

Core Wireless Products



1. X4-N-XX wireless node



2. X1-N-24 wireless nodes with integrated antenna



3. IX Controller



4. IX ANM – Acurix Node Manager

5. IX ACS – Acurix Cloud Server



Operator Workstation & Video Management System



- Display live video and playback on 4 separate monitors per operator workstation
- Simultaneous display of up to 32 video streams
- User defineable video windows, including full-screen mode and maps
- Set up for salvos, sequences and guard tours
- Full alarm system including routing, audit, management & camera activation
- Export to JPG, BMP or AVI
- Automatic watermarking of all images



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