

Case Study: Star-Tech Communications

A leading wireless distributor/integrator
deploys wireless bridge network



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WIRELESS



Star-Tech, a leading distributor and integrator of wireless equipment in Australia, deployed LightPointe's HyBridge™ Gigabit capacity wireless bridges to connect multiple buildings for a leading manufacturer of fork lifts and material handling equipment.

About Star-Tech

Star-Tech Communications is a private Australian telecommunications engineering firm established in 1990. The company's core competencies include wireless bridges, WWAN, WLAN, broadband distribution in multiple dwelling tenancies, and networked wireless surveillance cameras. In addition, Star-Tech is a government endorsed supplier with experience at heritage-listed sites. Star-Tech has an in-house team of qualified engineers and project managers for designing, engineering, deploying and maintaining IT solutions. Star-Tech sells products and services directly to clients large and small, and also provides services to many larger well known telecommunications firms, contractors and consultants.

The Challenge facing Star-Tech and its client

A leading manufacturer of material handling equipment, including industrial forklifts, contacted Star-Tech and explained the company's challenge. Due to the growth of its business, the company had expanded with additional buildings and warehouses. This presented a requirement to connect its employees across multiple sites, as efficiently and cost effectively as possible, with various categories of traffic (e.g., voice and data). The company's IT infrastructure department evaluated the options available for connecting the buildings, including installation of fiber-optic cable and obtaining estimates from the regional telecommunications provider. The company also turned to local wireless expert Tony Tilbrook, Technology Director at Star-Tech Communications. Tilbrook evaluated the company's needs and budget, and all available options for connecting the buildings. Installation of fiber-optic cable was deemed too expensive and virtually impossible to install, due to the rights-of-way issues and damage that trenching would cause. XDSL lines were also eliminated from consideration, due to speed and performance limitations. It was determined that the only viable, cost effective method to connect the company's buildings was to turn to wireless bridge technologies.

The LightPointe solution proposed by Star-Tech Communications

Star-Tech evaluated available wireless bridge solutions for recommendation and deployment, including various brands of point-to-point radios (and their respective frequency bands utilized), Free Space Optics bridges, and also new hybrid Free Space Optics bridges with integrated radios. Star-Tech's final recommendation, LightPointe's HyBridge LXR-5, met all the requirements set forth by the company's IT team which expected (1) Gigabit capacity, (2) fast and low cost installation, (3) affordable initial hardware costs, (4) no recurring monthly operating fees, (5) extremely high reliability/availability up to 99.999%, (6) automatic backup/redundancy, and (7) system immunity from nearby radio frequency transmissions and congestion both at the time of installation and for 'future proof' protection and (8) the highest signal and cyber security possible, to protect the company's computers and data from eavesdropping and viruses.



CASE STUDY

“After evaluating several brands of wireless bridges, and all available wired and wireless technology solutions, I recommended LightPointe’s HyBridge system to connect the customer’s buildings. There simply was not a better solution available to provide Gigabit capacity, immunity from RF congestion and interference, system redundancy and such a high degree of signal security to protect the customer’s computers and data from eavesdropping and cyber attacks.”

*Tony Tilbrook
Technology Director
Star-Tech Communications*

Benefits:

Key advantages of LightPointe’s HyBridge Series for the deployment by Star-Tech:

- Fast and clean installation (less than three weeks from order to operation)
- No frequency/regulatory licensing costs or delays
- Gigabit throughput and low latency for near-instant communications between buildings
- Superior security of optical transmission provides increased protection from data eavesdropping and cyber attacks on the company’s computer systems
- 4th Generation Free Space Optics/laser technology with exclusive LightPointe 4-beam auto-tracking performance
- Automatic smart-switching between Free Space Optics and RF backup (redundancy)
- Low cost/high ROI, especially when compared to GigE/GbE RF alternatives and fiber-optics

Customer’s Industry/Sector:

Fork lift and material handling equipment manufacturer, with need to connect multiple buildings.

Solution proposed by Star-Tech:

LightPointe HyBridge LXR-5 wireless bridges with 4th generation laser technology combined with integrated radio backup.

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LightPointe HyBridge LXR-5 wireless bridges installed by Star-Tech

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