Professional Wireless Solutions, Design, Surveys and Consultancy

Wireless Solutions from Teleostec

Teleostec Wireless Solutions Benefits:

○ In-depth industry experience in the design, installation and operation of wireless broadband.

○ Complex state-of-the-art technology presented in a simple and easy to understand way.

○ Accurate, reliable and cost effective broadband wireless solutions.

Full End-to-End Solutions

Full integration of all solution components:

- Radio coverage & frequency planning.
- Advanced security.
- IP network switching & routing.
- Integration into IT platforms and servers.
- Web page design.

Professional Site Survey

A specified level of acceptable target signal strength (dBm) and Signal to Noise Ratio (SNR) is required to confirm correct wireless coverage and performance. To achieve this, Teleostec include a measurement of noise level and can advise on suitable signal strength requirements.

Range of WiFi Solutions

Comprehensive advice and support for selecting, deploying and optimising your WiFi system:
- Guest access for visitors to your site.
- Highly secure access for office and critical environments.
- Enterprise WLANs for business critical performance.
- Point-to-point and Point-to-Multipoint wireless links.

WiMAX / 4G Solutions

The new standards in wireless broadband featuring high data speeds and mobility. Teleostec offers:
- Specialist technical WiMAX knowledge.
- End-to-end network architecture design.
- 4G LTE advice and consultancy.

Wireless Solutions

Reliable Wireless Coverage

Teleostec uses an industrial grade indoor wireless coverage tools. Once calibrated for the site to be covered, we are able to determine the optimum number of basestations and their locations from a scaled floor plan.

This allows us to try 'what-if' scenarios and predict the way the wireless will behave. The tool uses advanced ray tracing techniques and Dominant Path Model, with improved accuracy and flexibility over other commonly used tools.

Wireless Security

Teleostec can design and deploy wireless security schemes to meet your requirements. We can advise, design and install systems supporting advanced wireless signal encryption. These include 802.11i WPA2 standards using AES-CCMP. We can cover advanced level user and device authentication and authorisation, covering design, build and integration of 802.1X and RADIUS enterprise standards, and user database platforms including Active Directory integration. This can support advanced password and certificate schemes, including PEAP, EAP-TLS and EAP-TTLS protocols.

Wireless Broadband System Design

Teleostec wireless system design covers the complete end-to-end solution. This includes consideration of the optimised radio coverage, frequency planning, the services & devices to be supported, and the security & performance required. We have expertise in designing and deploying IP LAN & WAN, switching, routing, and IP addressing. We can also advise, design and build IT platforms to integrate with the wireless system, including servers for gateway, authentication (incl. RADIUS), DNS, DHCP, files servers and databases (incl. Active Directory).
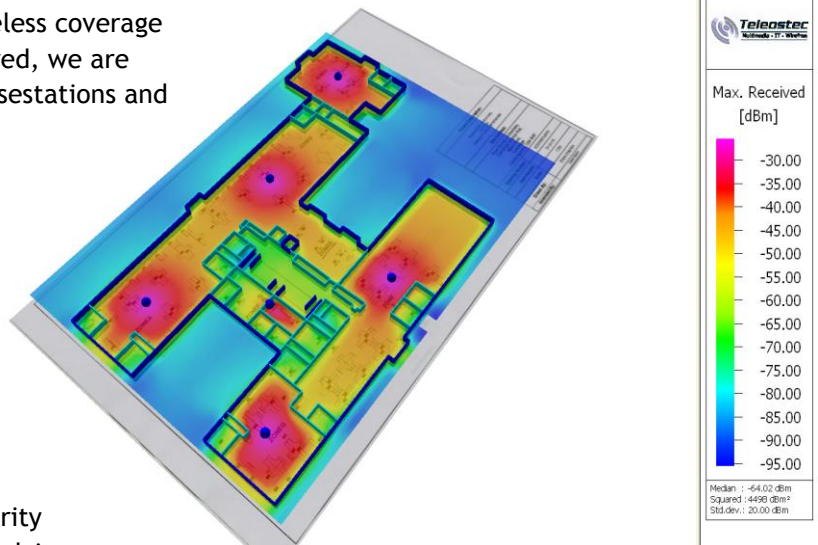
Outdoor Coverage & Point-to-Point Links

Wireless broadband outdoor coverage can be provided with WiFi and WiMAX. With outdoor links, wireless broadband is an ideal low cost, high data speed connection between locations.
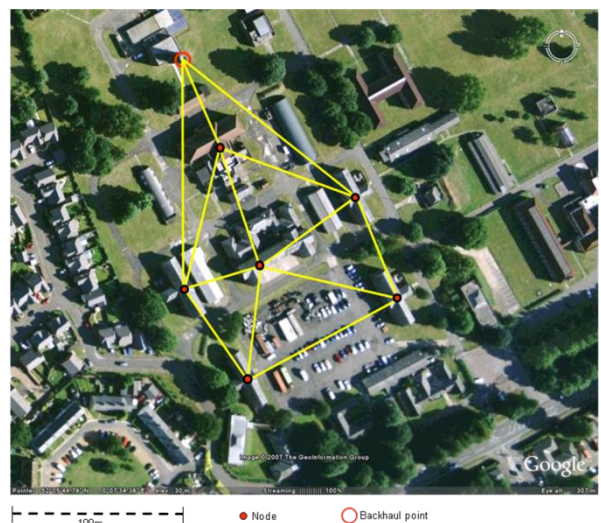
Professional Airmagnet Survey Capability

Teleostec is a trained user of the industry leading AirMagnet Survey software for wifi networks. AirMagnet Survey is ideal for planning 802.11 a/b/g/n wireless LANs for optimal performance, security and compliance. It calculates the ideal quantity, placement and configuration of APs for a successful WLAN deployment. AirMagnet Survey goes beyond just verifying RF coverage, by plotting actual end-user network performance in terms of connection speed, throughput and packet statistics. The end result is a complete Wi-Fi "weather map" of all critical RF and end-user performance metrics.

Wireless Solutions

Teleostec
Multimedia · IT · Wirefree

Enterprise Wireless LAN Solutions

Teleostec has in-depth knowledge of Enterprise WLAN solutions. Enterprise solutions are based around WLAN controllers and are ideal for efficient management control of any medium to large scale WiFi infrastructure, allowing scalable central control of device configurations, network changes and advanced services. High capacity and high performance can also be achieved. Teleostec can advise on a range of different systems on the market offering a range of features, and specialise in the following industry leading vendors.

High Performance WLAN from Meru Networks

The solution from Meru Networks provides an innovative and industry leading approach to high performance, high capacity wifi networks. Different to the normal 'cellular' approach to wifi coverage, Meru is able to support a far higher level of user access and throughout using its 'virtual cell' technology. In addition to normal wifi usage, it is also a perfect solution for environments such as conference venues, education sites, offices, stadiums, and indoor or outdoor events, etc. where a larger number of users will need to simultaneously access the wifi network reliably and without congestion. It is an ideal solution where a higher density of conventional wifi access points would otherwise cause a high degree of self-interference.

Cisco Enterprise WLAN Solutions

Cisco offers a broad portfolio of access points targeted to the specific needs of all industries, business types, and topologies. Cisco access points can be deployed in a distributed or centralized network for a branch office, campus, or a large enterprise. Whether you need entry-level wireless for a small enterprise or mission-critical coverage at thousands of locations, Cisco can help. Cisco wireless controllers help reduce the overall operational expenses of Cisco Unified Wireless Networks by simplifying network deployment, operations, and management. The wireless controllers provide the visibility, scalability, and reliability your business needs to build highly secure, enterprise-scale wireless networks.

Cost effective WLAN Solutions 4ipnet

4ipnet is a leading provider of networking devices for manageable, reliable, and secure wireless access. 4ipnet delivers a diverse array of turnkey, high-performance products and mission-critical applications to bring reliability and manageability to increasingly complex wireless networks. 4ipnet's complete WLAN infrastructure solution portfolio addresses the needs of different network operation environments ranging from the ISP to the SOHO, with an emphasis on simplified network deployment, centralized network management, and enhanced network performance. Ideal for hotel and hospitality venues with integration to PMS guest room billing systems.

Teleostec also offers:

Guest Access: The new low cost Guest Access gateway product developed in-house by Teleostec. Easily and safely provide internet access over wireless (and over a fixed network, if required) to guests, visitors or staff at your location. Flexible and easy to use, it allows full control over guest access; or alternatively, it can simply be install-and-forget. Solution includes the Teleostec gateway, professional survey, installation and support.

Teleostec Broadband Packages: Teleostec provides a range of cost effective business ADSL and Fibre Broadband packages available on a stand-alone basis, or at a discount when combined with a Guest Access gateway allowing you to use your connection for your business and guests. Further discounts available for annual payments.