

WIRELESS NETWORK DESIGN AND DEPLOYMENT

Wireless networks have shifted from the secondary platform to the primary network access layer to connect corporate users. Now operating in a “mobile by default” mode, wireless is often the primary route for connecting to workplace services and applications. Access to secure, reliable highly performant wireless networks for corporate users, guests or “things” is deemed essential and business critical within the modern workplace. User wireless connectivity must be easy to access, “always on” and secure by default to ensure a positive wireless user experience.

Wireless networks are an essential component of modern home and Enterprise IT. Few personal devices or IOT “things” default to a fixed cabled connection or have one built in, making wireless network access fundamental to user connectivity and productivity in corporate environments. The transformation of workplaces from static desk-bound environments to flexible workspaces requires a network with coverage everywhere for secure access by users and things with a levels of performance and resilience that can be relied on. This has resulted in a transformation of wireless networks to use modern technology to deliver high levels of performance, coverage and security to enable new user experiences and enhance productivity. Optimum access to applications and services must be easy and secure, and a positive user experience is key. Network coverage must be seamless, deliver ‘always on’ reliability and must provide a level of performance on par with or better than an end users home environment.

In addition to providing connectivity to services the wireless network is quickly moving to a point where additional value is being derived from the technology:

- Connecting to customers in a personal way that influences their buying behaviours
- Providing customers with value add services to enhance their overall experience
- Empowering mobility in the workplace by supporting collaborative working practices
- Retaining and attracting staff through flexibility and choice of end user device
- Enabling a smarter more efficient building and working environment

The challenge is balancing these requirements, whilst extracting the maximum value from the wireless network, without sacrificing security or exposing the business to compliancy risks.

Wireless networks benefit from the use of radio waves to deliver wire free coverage. Networks must be designed to maximum coverage and performance but consider the limitations of radio frequency (RF) transmission and how they are affected by building designs, other signal related issues and security. Computacenter offers the full span of wireless network service offering from procurement and solution design through field based installation and troubleshooting.

The Computacenter wireless networking services portfolio includes:

- **Wireless Site surveys:** Field based assessments to determine coverage and determine RF blackspots
- **Wireless network solution planning and design:** Logical and physical network solution topology and operations. Wifi6 and 5g co-existence.
- **Wireless infrastructure installation and deployment:** Physical device configuration, deployment, deploying and physical mounting
- **Wireless security and client access:** Secure connecting user services, network access and software defined campus services.
- **LAN and wireless network integration and configuration:** Controller configuration and LAN network operational management
- **End user experience testing:** Wireless user performance assurance to maximise the end user experience.
- **Network troubleshooting and assurance:** Fault finding and testing
- **Physical cabling solution design and installation (fibre and copper):** Cabling deployment (networking and power) to deliver optimum connection between access points, controllers and devices.
- **Non-standard wireless network implementation:** Deployment and installation in warehouses, frequency hostile environments, outdoor coverage, lift shafts & stairwells.
- **Distributed antenna services (DAS):** Solutions to enhance mobile phone network coverage within buildings.



WIRELESS NETWORK DESIGN AND DEPLOYMENT

Computacenter wireless networks are deployed with the future in mind with both physical and wireless infrastructure components deployed with expectation of a long life span with minimal intervention. Computacenter is uniquely placed to deliver comprehensive end to end wired and wireless enterprise solutions in a risk mitigated, highly efficient manner. The use of repeatable best practice design blueprints refined over many years of wireless implementation in the most hostile environments ensures Computacenter can deliver business critical network solutions in the most challenging situations.

COMPUTACENTER FOR WIRELESS NETWORK SERVICES AND SOLUTIONS

Computacenter is a leading, vendor independent, provider of secure enterprise wired and wireless network services to enable secure user connectivity to applications and resources. With a focus on user behaviour and experience, best practice security and operational simplicity, Computacenter wireless network solutions are designed, configured and installed with the optimal lived experience and future operations in mind.

WHY COMPUTACENTER?

By choosing Computacenter to wireless networking services customers will benefit from:

- Extensive wireless RF (radio frequency) solution design experience
- Industry and vendor certification to deliver wireless networking services in sensitive and specialist facilities
- Physical infrastructure wireless and IOT device installation services for associated connected assets including cameras and specialist devices
- The highest level of partner certification from the leading vendors in the industry including; CommScope, Corning, Cisco, Meraki, Aruba, Air Magnet, and Exahau
- Access to market leading technology from a wide vendor portfolio to address any identified security requirement

NEXT STEPS

To find out more, speak to your Computacenter Account Manager or contact our Business Continuity Support team: BCSupport@computacenter.com