



APPLYING TECHNOLOGY. AMPLIFYING RESULTS.

With our decades of experience and expertise in communications technologies, TWD has the necessary perspective of current and evolving wireless technologies to address wireless communications challenges with solutions that are optimized for today—and prepared for the future.

## TWD SOLUTION SPOTLIGHT

# Wireless Services

The mobility of modern workforces offers tremendous opportunities for business and users, yet also presents new challenges for IT. Keeping users productive and connected to colleagues, information and applications require communications capabilities that are convenient, reliable and flexible enough to support the mobile model. Innovative and secure wireless solutions from TWD incorporate the latest technologies and practices to support your organization's specific wireless communications needs, to drive productivity and to connect your users securely—anywhere, on any device.

### Overview

Today, with mobility a top IT priority and Bring Your Own Device (BYOD) more often the standard than a trend, companies are turning to their IT departments to provide greater flexibility and a more robust environment that can support their increasingly mobile user bases.

WiFi, a familiar wireless standard, is the leading technology for meeting these emerging demands. Using WiFi, wireless access points (WAPs)—networking hardware devices—provide wireless connectivity to wired networks in an office setting, and deliver wireless Internet access to WiFi-enabled devices such as mobile phones, laptops, and tablets.

The resulting wireless data connections made possible via WiFi enable critical, untethered user access to business resources including information and applications, and support data-sharing among colleagues and associates both inside and outside the organization.

Heavier usage, though, and the increase in the number of mobile devices—now averaging more than two per employee—are taking a toll, overloading wireless systems and shutting down user access when maximum bandwidth is reached. Frustrations with meeting the needs of the



increased mobile density are mounting, and stem from:

- an **inefficient infrastructure** that routes traffic unnecessarily from WAPs to the WiFi controller point;
- the **lack of efficient central management** of a WiFi solution that crosses multiple sites or buildings that are part of the same infrastructure;
- the **inability to deliver a secure wireless environment** with easy-to-set-up policies that meets the requirements of all users.

It is possible, though, to implement wireless operations that are centralized, simplified, efficient, and secure. With our decades of experience and expertise in communications technologies, TWD has the necessary perspective of current and

evolving wireless technologies to address wireless communications challenges with solutions that are optimized for today—and prepared for the future.

### Optimizing the Wireless Experience

TWD wireless communications solutions embrace the advanced new Wireless 2.0 technology in order to support mobile user access effectively and to eliminate the frustrations—and inefficiencies—of traditional WiFi systems.

Wireless 2.0's single configuration and monitoring platform simplifies and centralizes management of wireless access. In this more agile environment, the organization's wireless policies, permissions, and firewalls are pushed out to all WAPs throughout the enterprise and across all locations to deliver individual rules-based user access.

WAP coordination no longer is driven from the controller but rather is placed in the WAP, which coordinates with its fellow WAPs for a seamless, scalable WiFi infrastructure that adjusts signal strength and passes mobile traffic among the access points on demand. Wireless 2.0's LDAP and Active Directory-based permissions structure taps into an already available authentication and authorization resource for more secure operations.

TWD mobile communications solutions built using Wireless 2.0 technology offer efficiency gains and powerful, easy-to-use, virtualized platform management that is available in a variety of delivery and cost models—from on-premise installations to the cloud.

Our comprehensive services apply our specialized expertise, experience, and skillset needed to determine and deliver an effective Wireless 2.0-based solution that is tailored to your unique requirements:

#### Assessment of Existing Environment

TWD thoroughly analyzes and documents your current WiFi environment in these core areas:

- Heat Mapping—map existing WiFi coverage and signal strengths
- Operational Efficiency—analyze WiFi operations costs and labor expenditures
- Capabilities Analysis—assess WiFi speed, bandwidth, security, etc.
- Needs Assessment—evaluate requirements for existing and planned WiFi use, users, locations, business goals, etc.

### Wireless 2.0 Network Design and Engineering

Based on the findings of our detailed assessment, TWD will design and document your new Wireless 2.0-based solution that is tailored to meet your specific business and user needs today—and that can adapt to business growth and technology advancements. Our solutions include on-premise, managed services, and cloud-based services.

### Deployment Services

TWD has been building communications and collaboration networks for two decades for government, commercial, and non-profit organizations. Our expert TWD deployment staff is experienced in all phases of WiFi deployment, from cabling to hardware and software infrastructure components.

### Managed WiFi Services

We are a fully operational managed services organization with our own 24x7 help desk. TWD has the capabilities in place to monitor and manage your new WiFi infrastructure in a variety of plans that address your IT and user needs.

### Connect with Us

With our decades of focus on communications technologies, TWD is well-positioned to address your mobile communications requirements. You can rely on TWD to deliver the latest technologies and innovative solutions you need to support effective mobile communications in your specialized environment.

### About TWD & Associates, Inc.

TWD is a technology solutions company that for more than 20 years has served as a trusted partner in delivering the highest quality systems and services to all types of customers, from large federal agencies in highly secure environments to commercial companies and non-profits. Our customers choose us to solve their communication and collaboration needs, taking a holistic view of their current technology investments and customizing solutions to deliver compelling value in the form of lower costs and higher productivity—whether on-premise or from the cloud—whether customer owned or by way of a TWD managed service.

To schedule a consultation, please email [sales@twd.com](mailto:sales@twd.com).