

VelocisWifi Services

Overview

Wireless and mobility have become the benchmark of communication in today's business world. With remote wireless Internet connections and wireless computer networks becoming more and more prevalent, it will dramatically impact the way business is done in the future. The world has truly become a wireless world.

In the past five years, Wi-Fi, also known as 802.11 suite of standards, has emerged as the dominant standard for wireless LANs (WLANs) worldwide. It has become the "TCP/IP of wireless", a single networking standard for all developers, equipment manufacturers, service providers and users. As with TCP/IP, any innovation in Wi-Fi benefits everyone else in the business world.

The wide-spread acceptance of Wi-Fi networks has fuelled this dramatic adoption, from deployments in offices and distribution centers to homes and ever-multiplying wireless metropolitan areas, not only as a productivity improvement tool but also as a lifestyle requirement. The rapid increase in the adoption rate of Wi-Fi coupled with the availability of high quality infrastructure at reasonable cost are key factors behind the flurry of activity regarding Wi-Fi location-based services.

Wi-Fi location based services, and research and development in Wi-Fi location prediction techniques have facilitated the emergence of indoor RF location tracking systems based fundamentally on the IEEE 802.11 infrastructure. In combination with trends to implement RFID systems in the consumer and distribution supply chains, these technologies have become a "perfect storm" of sorts, transforming the location-based services into a potential must-have application for Wi-Fi wireless deployment.

With integrated location tracking, enterprise wireless LANs become much more valuable as a corporate business asset. This is especially true in today's fast-paced and highly competitive marketplace, where an otherwise well-positioned enterprise may falter against its peers, not because of lack of necessary assets, but rather due to its inability to quickly locate and re-deploy those assets to address today's rapidly changing business climate.

Benefits of Wi-Fi

There are several benefits of Wi-Fi over a more traditional wired network, combined with its power of the benefits for an embedded system application. The addition of wireless provides more choices for monitoring, control and the dissemination of information. Practically, the remote locations become more accessible and costs drop. The following list summarizes some of the benefits of a Wi-Fi network.

Wireless Ethernet:

Wi-Fi is an Ethernet replacement. Wi-Fi and Ethernet, both IEEE 802 networks, share some core elements.

Extended Access:

The absence of wires and cables extends access to places where wires and cables cannot go or where it is too expensive for them to go.

Cost Reduction:

As mentioned above, the absence of wires and cables brings down cost. This is accomplished by a combination of factors, the relatively low cost of wireless routers and no need for trenching, drilling and other methods that may be necessary to make physical connections.

Mobility:

Wires tie you down to one location. Going wireless means you have the freedom to change your location without losing your connection.

Flexibility:

Extended access, cost reductions, and mobility create opportunities for new applications as well as the possibility of creative new solutions for legacy applications.

Wi-Fi Embedded System Applications

The reach of wireless communication in embedded systems continues to grow. In a few years, up to 95% of devices used to access the Internet will be non-PC devices that use an embedded system.

There are many applications for embedded devices with a Wi-Fi interface:

- ▶ Industrial process and control applications where wired connections are too costly or inconvenient.
- ▶ Emergency applications that require immediate and transitory setup, such as battlefield or disasters.
- ▶ Mobile applications, such as asset tracking.
- ▶ Surveillance cameras (maybe you don't want them easily noticed, cables are difficult to hide).
- ▶ Vertical markets like healthcare, education, and manufacturing.
- ▶ Communication with other Wi-Fi devices, like a laptop or a PDA.

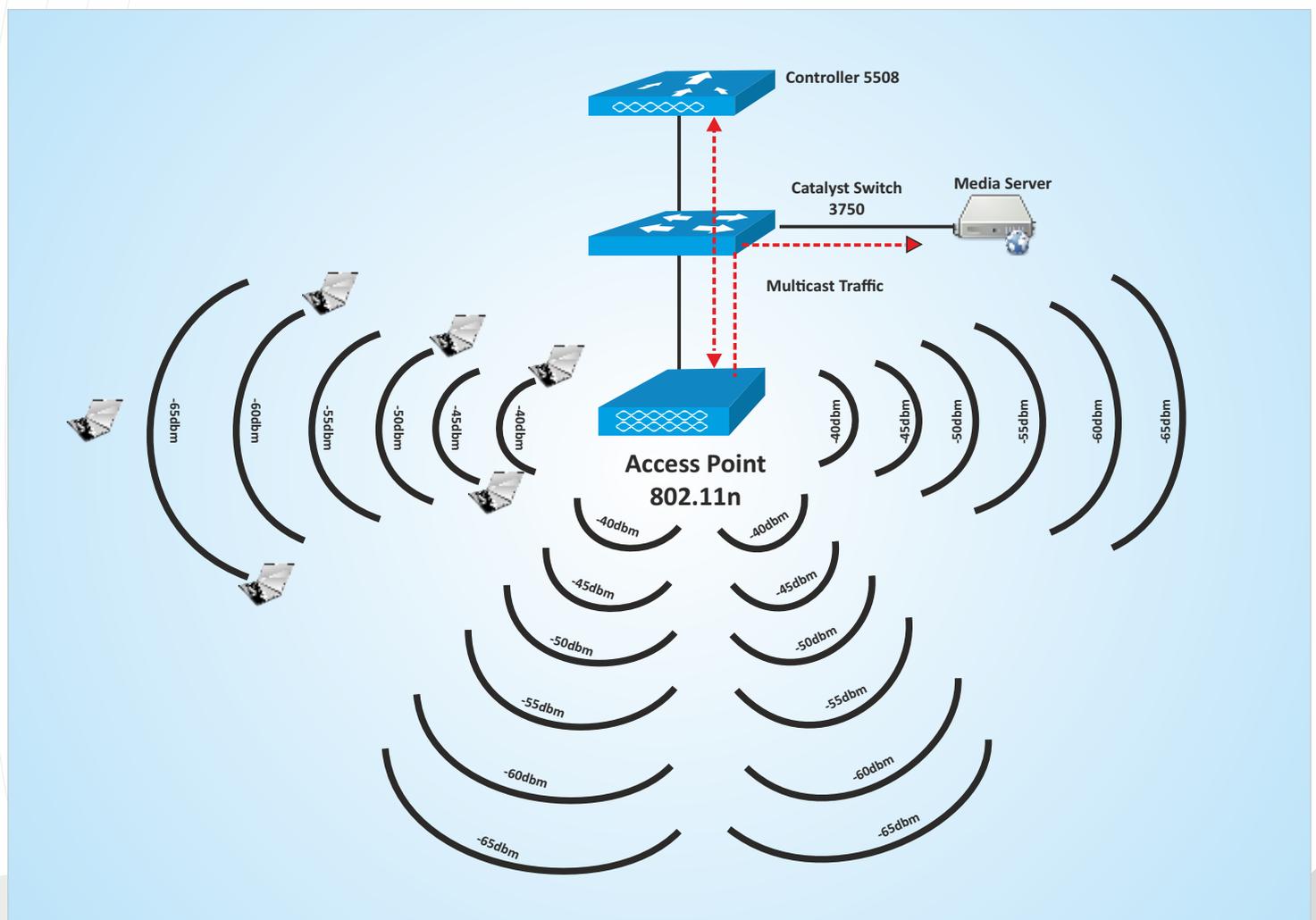
Location-based services

Location based services allow customers to address key issues in their environments, such as:

- ▶ The need to quickly and efficiently locate valuable assets and key personnel
- ▶ Improving productivity via effective asset and personnel allocation
- ▶ Reducing loss because of the unauthorized removal of assets from company premises
- ▶ Improving customer satisfaction by rapid location of critical service-impacting assets
- ▶ Improving WLAN planning and tuning capabilities
- ▶ Coordinating Wi-Fi device location, security policy enforcement and identify unauthorized devices
- ▶ Monitoring the health & status of key assets in their environment and prompt notification of changes
- ▶ Receiving prompt notification when unauthorized addition or removal of assets occurs

Wireless Solutions by Velocis Systems

Velocis Systems is a system integration company that offers comprehensive end to end IT solutions and services to its customers. The wireless offering includes Wi-Fi and Wireless technology products and services built around them. The company has tied up with several technology partners to provide solutions based on world class products. The end to end solutions and services include planning, consultancy, design, implementation, support and management services.



Wireless Integration Services

Enterprises have aggressive plans for the expansion of both international and domestic infrastructure. They need project management companies having rich expertise in wireless technologies such as Wi-Fi to handle the entire design, supply, installation and management on a turnkey basis. This is where Velocis Systems can be your integration partner of choice for handling these turnkey opportunities.

Wireless Out-Tasking Services

The carriers and service providers generally out source certain tasks within their business such as Project Management, Business Solutions, Network Audit, Work Systems Development, Network Optimization, etc. Velocis Systems will, with its expertise on Wi-Fi technologies, be able to add value to the customer networks in the form of cost savings, new set of revenues, and improved customer experience.

Wireless Managed Services

Enterprises would like to completely out source their network operations or field operations to an expert service provider in order to focus on some of their activities like customer acquisition and customer maintenance. Service providers may not have adequate bandwidth to handle their back end operations. Velocis Solutions will step in by providing customized solutions to the carrier by completely handling their network operations or field operations.

Mission-Critical Wireless

Strengthens business-focused applications for employees, customers, and communities on the move. Improves the end-user experience on legacy and cutting edge wireless devices with industry-leading performance and advanced technology. Wireless networking combines the mobility of wireless with the performance of wired networks, offering a dramatic performance increase compared to legacy 802.11a/g networks. We can deliver 802.11n and 802.11ac excellence designed to effectively support a vast range of business-focused wireless networks, from the most basic to today's most demanding high-density environments.

Mobile Workspace

Go beyond Bring-Your-Own-Device (BYOD) access. Establish a network, security, and management framework when creating a true mobile workspace for your always-on employees.

- ▶ Integrated multi-level security policy and enforcement to protect your network and data
- ▶ Consistent policy management and enforcement
- ▶ Single integrated solution to simplify delivery of applications, data, and collaboration services
- ▶ Application visibility and control for improved user experience and security
- ▶ Mobility Services designed by Velocis provide the expertise you need

Connected Mobile Experiences

Wi-Fi location-based services offering helps businesses to engage and better understand their customers using mobility and location intelligence from WiFi network. Capabilities of Mobility Services Engine offer:

- ▶ Location-based analytics for visibility into number of visitors, their dwell time, their movements etc.
- ▶ Simple guest access and a customized landing experience
- ▶ Online and social analytics to better understand customer demographics and their mobile behavior
- ▶ An API and SDK to make it easy to create location-based applications and services
- ▶ Mobility Services designed by Velocis provide the expertise you need

We help you build a stronger relationship with clients through a personalized mobile user experience.

Application Visibility and Control (AVC)

Application Visibility and Control (AVC) solution for wireless networks identifies more than 1000 business or consumer-class applications using deep packet inspection (DPI). With this extraordinary visibility into application traffic, administrators can mark applications for further prioritization, or block them for security reasons or to conserve limited network bandwidth. AVC offers these benefits:

Improved Quality of Experience

Proactive monitoring and end-to-end application visibility accelerate troubleshooting and reduce network downtime.

Better Network Management

Network capacity management and planning improve through greater visibility of application usage and performance.

More Intelligent Prioritization

Business-critical applications and sub-flows are prioritized, including unified communications and collaboration applications like Cisco Jabber, Cisco WebEx, Microsoft Lync, Microsoft Skype, Apple Face Time, and Google Voice.

High Density Experience

High Density Experience (HDX) improves the performance of legacy and cutting edge wireless and mobile devices with advanced technologies. HDX consists of Turbo Performance, CleanAir with 80MHz support, ClientLink 3.0, and Optimized Roaming.

▶ High Density Experience (HDX) for 802.11ac

HDX helps optimize performance, mitigation, scalability, and roaming for high-density wireless networks.

▶ Turbo Performance

This technology allows the access point to support a large number of clients without performance degradation.

▶ CleanAir

It offers 80 MHz support and uses silicon-level intelligence to create a self-healing, self-optimizing wireless network that mitigates the effects of wireless interference.

▶ ClientLink 3.0

It helps access points bridge gaps in coverage caused by mixed client devices (802.11a/g/n and ac). It increases access performance and range while providing a better wireless experience.

▶ Optimized Roam

Clients can roam more intelligently and cleanly between access points. It prevents negative experiences for Wi-Fi users by monitoring the device connection quality and pro actively prompting poorly-performing client devices to seek better connections sooner.

Process & Quality

At Velocis Systems, we simply do not compromise on process and service quality. Our strong and experienced leadership team ensures that every project is backed by clear understanding of customer's needs and service quality.

Driven by the spirit, we use a phased approach for all our services **viz: plan, design, implement, support, manage and optimize** framework. Every project on hand will begin with a clear blueprint of what the customer's requirements are. After capturing both specific and implied requirements of the customer, we identify the parameters critical to the success of the project. Not only is transparency guaranteed during the course of operations, every milestone is coupled with tangible outcomes from continual performance improvement efforts. Using a strategic, methodical, and logical approach, we guide the project to a successful completion.

Velocis Systems (P) Limited is a leading player in Networking, Computing, Messaging & Collaboration, Portals, and Business Process Automation. Velocis is uniquely positioned to deliver end-to-end IT solutions involving Data, Voice & Video. It brings a broader, deeper and state-of-the-art range of products, solutions & services to its customers. Velocis' offerings help its customers derive more value out of IT. Velocis' has expertise in IT Infrastructure wired and wireless deployment, Application Development and Deployment, Managed Services, Infrastructure Assessment, and Facility Management Services. Velocis' state-of-the-art NOC provides 24x7 support services to its valued customers to run their mission critical infrastructure.

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