



With Trapeze, you just add the wireless equipment, link into your existing wired network using standard interoperable technology, and the system takes care of automatically providing roaming users with access to all their existing network resources – and only those appropriate resources. The Trapeze system provides your users with full mobility without forcing you to distribute VLANs throughout your network, to add a new VLAN, or to change your client infrastructure.

The system applies the stringent security needed to ensure that only authorized people can access your network's resources. Using standard, strong authentication and encryption techniques, the Trapeze Mobility System protects against misuse and eavesdroppers and isolates traffic between multiple private groups.

Once the system authenticates a user, it tracks that user's identity as they roam throughout the WLAN, enabling fast secure handoffs and eliminating the need for users to re-authenticate. As a result, users enjoy passport-free mobility, with no need to reconfirm their identity, and they gain access to a consistent set of services.

### **#2 – The Broadest Range of Wireless Services**

The Trapeze Mobility System supports the broadest range of wireless services of any WLAN system. It integrates with authentication, authorization, and accounting (AAA) servers to provide user services based on identity – a feature Trapeze calls Identity-Based Networking.

With Identity-Based Networking, you can centralize policies for network access, traffic prioritization, and mobility services in the AAA server, which provides consistent controls wherever users roam. The Trapeze Mobility System also provides you with crucial security and network administration services such as intrusion detection and resiliency capabilities.

Identity-Based Networking lets you define for a user or users their virtual private group, time of day access, encryption type, quality of service (QoS) level, traffic filtering, roaming profiles, and location-specific policies. The system also excels in its delivery of voice-over-wireless-IP (VoWIP) services, with traffic classification and per-user queuing. Only the Trapeze Mobility System relies on standard mechanisms to provide such fine-grained control to network resources and enforces those policies consistently as users roam.

In addition to user-based services, the Trapeze Mobility System provides important IT-oriented services. These services include intrusion detection and location, user monitoring and location, and high-availability and network-resiliency mechanisms. Many of these capabilities are derived from the award-winning Trapeze RingMaster™ tool suite, which enables you to plan, deploy, configure, and manage your WLAN.

The Trapeze Mobility System also offers industry-leading resiliency capabilities. The system relies on standard, interoperable techniques such as spanning tree and per VLAN spanning tree (PVST+) to support redundant connections to the backbone and within the WLAN system. Trapeze is unique in supporting two Ethernet ports on each Mobility Point™ (MP™) access point, enabling data path and power-over-Ethernet (PoE) redundancy from the wired infrastructure.

### **#3 – The Lowest Total Cost of Ownership**

The Trapeze Mobility System offers unparalleled operational advantages. It remains the easiest WLAN to plan and run and therefore offers the lowest total cost of ownership in the industry. To a large extent, the powerful RingMaster tool suite is responsible for these operational gains, which have provided Trapeze customers with a return on investment of less than one year.

RingMaster is a full WLAN lifecycle tool. It includes all the features you need to plan, deploy, configure, and manage the WLAN. RingMaster yields an accurate plan for the WLAN through its use of measured attenuation factors for building obstacles. The tool automatically calculates how many MPs you need and places them in your building for optimal radio-frequency (RF) coverage and capacity.

No other WLAN system tool includes building attenuation, so no other tool can pinpoint the optimal location for access points (APs). As you're building the plan, behind the scenes RingMaster is building the configuration files that support that plan. When you verify that the plan is complete, RingMaster provides a

work order to simplify deployment, and then in a single step, RingMaster automatically configures the WLAN equipment. International support ensures that RingMaster will use the appropriate channel settings and power levels allowed by each country's regulations.

You'll enjoy the greatest operational savings during the actual running of the Trapeze Mobility System. The system automates such time-consuming tasks as rogue detection, user monitoring, user location, roaming history, RF monitoring, security enforcement, and troubleshooting. Using RingMaster, Trapeze's customers have achieved operational savings of 50-70% over other WLAN architectures.

## **The Key Distinguishing Feature that Makes Trapeze Stand Out**

The Trapeze Mobility System is the first integrated WLAN system based on Identity-Based Networking, which lets users login once, roam anywhere securely, and retain their access rights and authorizations. Private group membership, authentication, ACLs, roaming policies and history, location tracking, bandwidth usage, and other personal statistics stay with users anywhere in the network, wired or wireless. No other WLAN system provides this degree of secure mobility, range of services, and operational savings.

## **How Trapeze Advances the State of the Art of Networking**

The Trapeze Mobility System advances the state of the art of networking in four ways:

1. The Trapeze Mobility System enables big enterprise WLAN deployments for the first time – without changing backbones, client devices, or network protocols. It integrates seamlessly with wired LANs, ensures secure mobility, and automates pre- and post-deployment planning, management and optimization systemwide.
2. RingMaster offers systemwide pre- and post-deployment planning, management and optimization. Import AutoCAD, JPEG or GIF floor plans to design the WLAN offline. Wizard-based virtual site-survey and automated capacity-planning tools ease configurations and calculations. Next, print a work order that shows where to install Trapeze equipment. Then deploy scores of Mobility Exchange configurations and hundreds of Mobility Point configurations in one step. Afterward, stay air-aware with RF topology mapping and coverage-verification tools for ongoing optimization.
3. Wired ports were once the basis for network engineering. But WLAN users can be anywhere, plugged into ports or linked by mobile devices. With Trapeze Identity-Based Networking, all the appropriate services and authorizations stay with users, no matter where they roam. The system reports on who's connected, where they are, where they've been, what services they're using, and what services they've used – all while offering enterprise-class security. It's the precept upon which future network engineering and policy decisions will be made.
4. The Trapeze Mobility System leverages Identity-Based Networking to offload AAA servers by performing EAP processing. This design reduces the number of 802.1X authenticators by as much as 100-to-1, giving AAA servers greater scalability.

## **How Trapeze Enables Customers to Save Money and Make Money**

The Trapeze Mobility System eliminates the cost and complexity of integration, security and management of multiple WLAN point products and appliances from different vendors. It also eliminates expensive manual site-surveys and time-consuming capacity-planning calculations – before, during, and after deployment. And by seamlessly integrating wired with wireless, businesses no longer need to treat the WLAN as an independent, add-on infrastructure with its own unique set of problems and costs.

The Trapeze Mobility System overcomes the challenges of implementing a scalable enterprise-wide WLAN infrastructure. It enhances productivity, introduces efficiencies, and accelerates business response time by delivering best-in-class secure mobility, the broadest range of services, and the lowest total cost of ownership. The bottom line: The Trapeze Mobility System ensures that WLANs contribute to corporate success rather than add to its stress.

# Why Trapeze Networks?



5753 W. Las Positas Blvd., Pleasanton, CA 94588 Phone 925.474.2200 Fax 925.251.0642

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