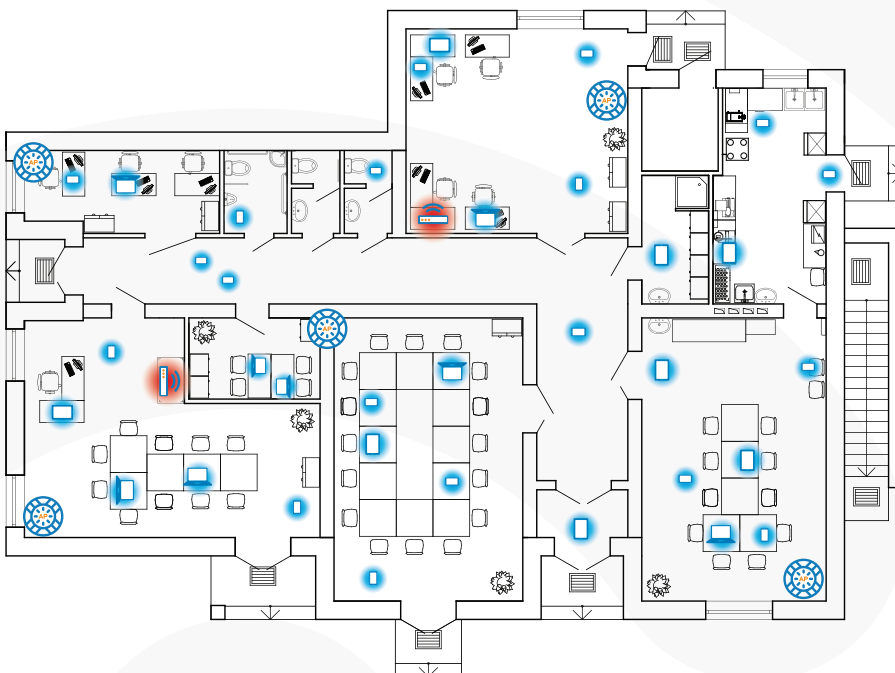# XIRRUS POSITIONING SYSTEM (XPS)

DELIVER NEW USER EXPERIENCES

Today businesses seek to deliver highly differentiated experiences to their customers and guests to gain competitive advantage. Using the Wi-Fi network, location and other contextual data about users can be leveraged to deliver unique user experiences in retail shops, public malls, convention centers, sports arenas, and more. The Xirrus Positioning System, a scalable, flexible platform, provides instantaneous location data for tens of thousands of Wi-Fi devices simultaneously.

AT A GLANCE

- Locate both associated and unassociated Wi-Fi devices in seconds

- Track up to 100,000 devices simultaneously

- Identify devices on the map with Xirrus Management System

- Standards-based RESTful JSON API

- Virtual server requires no dedicated hardware

Product Details

Product Details	
Model	XPS-9000-VM
Virtual Environment	VMware
Processor Cores	Minimum of 4
Main Memory	Minimum of 4GB
Scalability	100,000 clients per server instance

XPS determines location for Wi-Fi clients (blue) and rogue APs (red) directly on floor plans of your deployment.

XIRRUS POSITIONING SYSTEM (XPS)

KEY BENEFITS

CUSTOMIZED USER EXPERIENCES

Xirrus Wi-Fi APs integrate with analytics platforms to provide granular insights into users and deliver customized experiences. Location-based triggers enable business-specific applications, for example:

- Museum delivers audio narratives for nearby exhibits
- Conference organizers guide attendees to their next session
- Fans at a sporting event directed to the nearest concession stand with the shortest line
- Malls engage shoppers with compelling brand content and offers
- Hotels offer customized services when a guest arrives on-premise

SIMPLE DEPLOYMENT

Integrated with XMS-Enterprise for Wi-Fi network management, XPS takes only minutes to configure. From a single management dashboard, clients can be located in real-time on floor plans imported into the system. All types of Wi-Fi enabled devices, including BYOD devices, IoT sensors, rogue access points, and more, can be tracked with the XPS.

WELL-SECURED Wi-Fi ENVIRONMENT

The Xirrus Positioning System increases network uptime by enhancing Wi-Fi security. The platform identifies rogue APs in order to reduce system vulnerabilities. Administrators can quickly locate clients consuming high bandwidth and impacting other users on the network.

HIGHLIGHTS

DISTRIBUTED LOCATION PLATFORM

The XPS is the only solution in the marketplace that distributes the highly-intensive calculation of client location among all the access points in the network. Unlike traditional solutions which require expensive centralized location engines, XPS leverages the computing power of the entire network, for faster and more precise identification. With location pre-calculated among all APs and maintained by the XPS, the system can achieve massive scale up to 100,000 clients and provides nearly instantaneous location information when queried.

EXTENSIBLE AND SECURE PLATFORM

XPS easily integrates with other applications, including 3rd party industry-specific applications, via a standards-based push/pull RESTful JSON API. This enables unique opportunities for businesses to interact with their customers and deliver value-add services. TLS security through the https protocol ensures secure transmission of the location data.

ULTRA-FAST LOCATION PERFORMANCE

With 2 to 6 core processors in every Xirrus AP, the distributed XPS location system leverages significant compute resources throughout the Wi-Fi network to deliver location information up to orders of magnitude more quickly than centralized systems. Pre-computation of X/Y coordinates within APs enables real-time monitoring of clients as they move around within the physical area. The XPS utilizes very low bandwidth for data transmission between APs.

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