Superb performance with the Enhanced Mobility Reference kit

Improve and extend network connectivity to help meet the demands of large businesses

With a rapidly expanding workforce, keeping the network running efficiently while supporting voice, video, instant messaging (IM) and other applications can be a challenge. While each network is different in requirements and deployments, implementing a base architecture with both wired and wireless LAN network helps organizations improve efficiency.

Dell Mobility Reference Architectures

Dell provides Mobility Reference configuration kits, designed for organizations of various sizes. The Mobility kits are established, deployed architectures supporting real-time traffic and applications. From Gigabit Ethernet to 802.11n and intelligent management, the architectures can deliver comprehensive and efficient end user networks that are simple to deploy and straightforward to manage.

Enabling superior user experiences

The Enhanced Mobility Reference Configuration Kit is designed for large Office, Branch and campus wiring closets, targeted to deliver a consistent user experience over a wired and WLAN network. Key benefits include:

- High performing wired and wireless connectivity for demanding applications and multiple device types
- Open standards-based architectures that can be deployed with little or no disruption to existing facilities
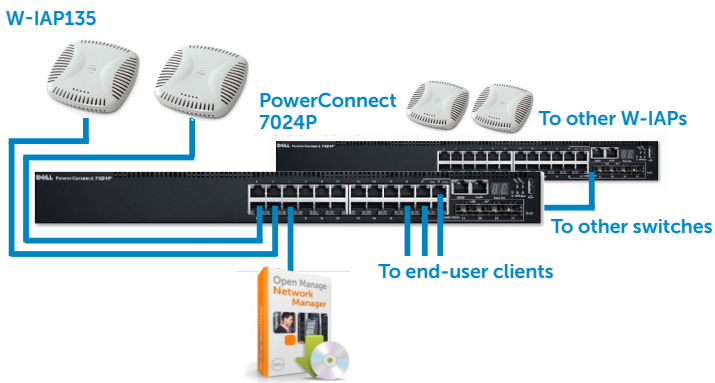- Easy-to-use management capabilities to help reduce operational expense

The Enhanced Mobility kit was recently demonstrated at the Austin City Limits® (ACL) music festival, delivering excellent user experience with simplified deployment and operation. Read more below.

Dell Mobility Reference Kits

Designed for organizations of various sizes requiring enterprise grade wired and wireless networking without requiring extensive IT expertise.

- **Enhanced Mobility Kit** reference configuration, designed for larger Offices, Branches and small campus IDF/wiring closets
- **Mobility Starter Kit** reference configuration, designed for Small or Medium Sized Offices or Branches, available at (www.dell.com/business/wireless)

Flawless connectivity, delivered simply

Dell Networking infrastructure at Austin City Limits Music Festival delivers 100 percent wired and wireless uptime, powering live video streaming and interactive computing, using the Enhanced Mobility Reference Architecture.

"We were able to provide a high-end product showcase at a music festival, where normally we'd have a controlled environment like a shopping mall," says Michael Fox, Partner Management Advisor, Dell

Read more at **Dell.com/CaseStudies** and watch the video at **http://youtu.be/hUX8sFsYtNM**

PowerConnect 7024P

To other W-IAPs

To other switches

To end-user clients

The Enhanced Mobility configuration includes:

PowerConnect W-IAP135 Instant Access Points

- A high density high performance solution for WIFI access up to 900Mb per second.
- Built-in virtual controller technology with self-configuration and self-healing capabilities

PowerConnect 7024P or 7048P Gigabit Ethernet switches

- Layer 3 line-rate models provide 24 to 48 ports with built-in Power over Ethernet (PoE+), 10 Gigabit uplinks and high-speed stacking

Dell OpenManage Network Manager (OMNM)

- Easy-to-automate labor-intensive management and monitoring tasks

Customize and scale with ease

Organizations can readily integrate and tailor the **Enhanced Mobility** configuration setup for their needs:

Expanding wireless LANs can help improve coverage for multiple device types as well as improve the quality of real-time applications like voice and video. Other benefits of the Enhanced Mobility WLAN are:

- W-Series IAPs scale easily with quick set up. With one IAP up and running, additional IAPs are automatically connected running a single network SSID
- IAPs continually optimize Wi-Fi client behavior and can steer clients to other Wi-Fi frequencies to avoid congestion, and high traffic utilization. Thus, they dynamically help ensure your workforce remains productive in challenging locations
- IAPs can also be powered directly from PowerConnect PoE switches, reducing the need for separate power and cables installation

Wired communications deliver performance quickly for high-traffic areas and across organizations. Benefits include:

- PowerConnect 7024P/7048P switches enable multi-office/multi-building traffic delivery for wireless access points / IAPs and other devices.
- For more Gigabit bandwidth and high-density user offices, PowerConnect 7000 Series switches can enable up to 576 GbE ports via dedicated stacking modules.
- More demanding and larger scale deployments can benefit from 10 Gigabit Ethernet uplinks linked up to faster aggregation or small core network switching, such as with the PowerConnect 8100 series of 10 Gigabit switches.

OMNM monitors network health and traffic loading across the network, while automating setup and deployment tasks. OMNM includes a variety of scripts to automate tasks and simplify configuration, managing all Dell Networking products.

Dell Service and Support

Select Dell Mobility Reference Kit components are covered by a robust limited lifetime hardware warranty* and a portolio of Services, including Dell ProSupport™. Minimize disruptions and maintain a high level of productivity through Dell ProSupport — a suite of support services you can configure and align with your organization's entire IT landscape. From remote installation to rapid response and consulting, Dell ProSupport offers you the peace of mind to focus on the things that matter the most to your business.

Conclusion

The Dell Mobility Reference Configurations are established, deployed architectures for organizations of multiple sizes. The **Enhanced Mobility Reference Kit** delivers superb performance and a reliable infrastructure for end-to-end communications. Organizations can realize the benefits of reference architectures and customize to their needs to improve the efficiency and performance of their network.

For more information on Dell Mobility Start Kit Reference Configurations, PowerConnect fixed port switches and PowerConnect W-Series solutions, contact your Dell Account Executive or visit: www.Dell.com/Business/Wireless