



General Mills employees enjoy powerful cellular coverage and capacity made possible with the Teko DAS solution from JMA Wireless.

SOLUTION BRIEF: CORPORATE CAMPUS

Improve Employee Productivity and Satisfaction with Wireless Connectivity Solutions

OVERVIEW

Mobile Communications Empower the Enterprise

Enterprises are undergoing dramatic changes in order to support today's technological advances. This includes addressing wireless communication as traditional cellular networks attempt to meet exponentially increasing data demands. Employees expect mobile connectivity to ensure work productivity and stay connected throughout the day especially as collaborative environments have become the norm. **Many companies are embracing BYOD (Bring Your Own Device) strategies to help ensure employee satisfaction.** Furthermore, best-in-class companies are building new structures with LEEDS (Leadership in Energy and Environmental Design) certification in mind. These new buildings

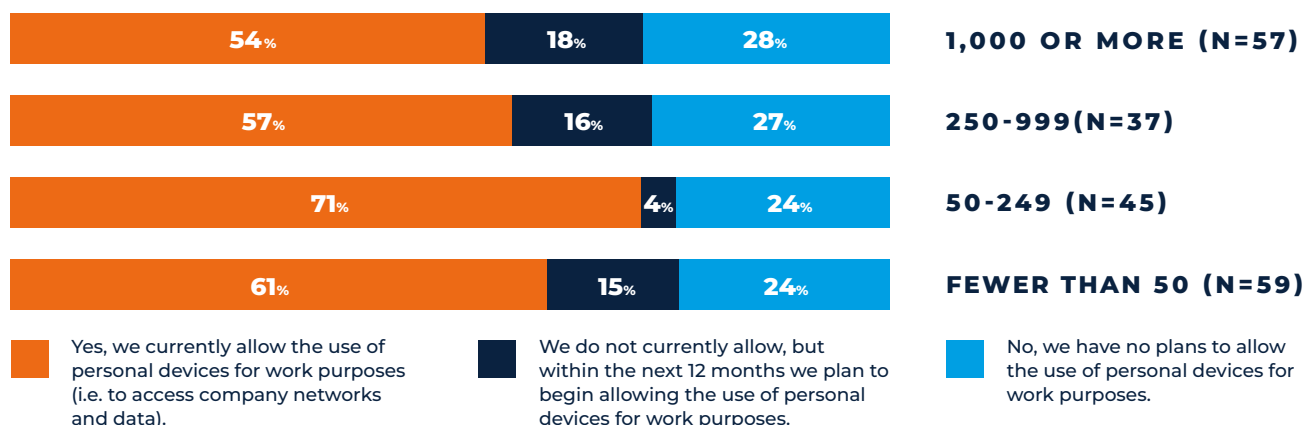
have significant environmental benefits, but can be detrimental to wireless signal and require careful planning to ensure cellular communications. All of these changes in the corporate world are placing great demands on wireless networks and their ability to deliver reliable, robust coverage and capacity.

SITUATION

Overcoming obstacles to wireless connectivity

Wireless coverage and capacity needs are growing in corporations due to changes in the work world. Usage of smartphones and other mobile devices has become prevalent across enterprises today. **By 2016 it is forecasted that the number of smart phone users will surpass the two billion mark.**¹ This usage is being fueled in part by the growing number of millennials.

Figure 1: BYOD usage by company size



According to the U.S. Bureau of Statistics millennials (those born after 1980) will comprise 40% of the workforce by 2020 and 75% by 2025.² Millennials have been raised with technology, and they expect robust cellular connectivity anywhere, anytime.

The collaborative environments that millennials desire and many corporations offer also place a further strain on today's cellular networks. Employees are no longer tied to their desks yet they still must be accessible and productive. Accessibility and productivity are only possible with robust cellular connectivity in-building as well as across an entire corporate campus.

Over the last few years many corporations have embraced BYOD (Bring Your Own Device) policies. Over 50 percent of businesses with 1,000 or more employees are allowing the use of personal devices for work purposes (see Figure 1).³ However, BYOD presents many challenges since employees can choose their own device and service provider; therefore, multiple bands and multiple operators must be supported anywhere on a corporate campus including critical environments such as a data center.

Not only is the traditional steel and concrete construction of corporate buildings difficult for cell signals to penetrate, but now these same enterprises are embracing "green" standards and building LEEDS certified facilities. The low-Emissive (low-E) glass of LEEDS certified buildings produce another barrier to the wireless signal emanating from the surrounding cellular towers.

SOLUTION

Wireless innovation to meet employee demands

Macro cell towers near a 1,000 plus employee corporate campus cannot always support the wireless communications needs of it and the surrounding community. Solutions such as the Teko DAS (Distributed Antenna System) from JMA Wireless can be easily

deployed on a corporate campus to ensure employees receive the cellular coverage and capacity they need to stay productive and be satisfied.

The versatile Teko DAS easily supports BYOD because it enables multiple operators and multiple bands. Plus with its future proofed modular design new technologies or services can be integrated effortlessly into an existing network, supporting employees who stay on the cutting edge of wireless communications.

The amount of optical fiber needed to support the Teko DAS is 50 percent to 75 percent less than competitive offerings in the market today, making it an extremely cost efficient solution. Only a single fiber is needed to distribute multiple frequency bands and multiple carriers from the rack mounted Master Unit to one or multiple Remote Units.

If onsite space is at a premium then a corporation may consider the C-DAS (Centralized Distributed Antenna System) solution from JMA Wireless. This off-premise option houses the mobile processing equipment in a central location while antennas are distributed throughout the corporate campus to ensure robust cellular capacity and coverage anywhere, anytime. With C-DAS the entire system is managed centrally and RF capacity is distributed on an as needed basis. It can be programmed to easily move capacity from the surrounding areas to the corporate campus during business hours.

RESULT

JMA wireless – trusted by corporations worldwide

Today's major corporations turn to JMA Wireless when they are looking for answers to mobility connectivity needs. JMA not only offers state-of-the-art wireless solutions, but relationships with service providers and leading system integrators to bring end-to-end offerings to its enterprise clients.

About JMA Wireless

JMA Wireless is the leading global innovator in mobile wireless connectivity solutions that ensure infrastructure reliability, streamline service operations, and maximize wireless performance. Employing powerful, patented innovations their solutions portfolio is proven to lower the cost of operations while ensuring lifetime quality levels in equipment and unrivaled performance for coverage and high-speed mobile data.

JMA Wireless solutions cover macro infrastructure, outdoor and indoor distributed antenna systems and small cell solutions. JMA Wireless corporate headquarters are located in Liverpool, NY, with manufacturing, R&D, and sales operations in over 20 locations worldwide.

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