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 to stay connected throughout the day as collaborative environments have become more popular.

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 LEED (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.

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 the end of the year, it is forecasted that the number of smartphone users will surpass the two billion mark. This usage is being fueled in part by the growing number of millennials. According to the U.S. Bureau of Statistics, millennials (those born after 1980) will comprise 40 percent of the workforce by 2020 and 75 percent by 2025. Millennials have been raised with technology and they expect robust cellular connectivity everywhere, all of the time.

The collaborative environments that millennials desire - and many corporations offer 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 policies. Over 50 percent of businesses with 1,000 or more employees are allowing the use of personal devices for work purposes. 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 data centers.

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 LEED-certified facilities. The low-Emissive (low-E) glass of LEED-certified buildings produce another barrier to the wireless signal emanating from the surrounding cellular towers.

Macro cell towers near large employment facilities 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 corporate campuses to ensure employees receive the cellular coverage and capacity they need to stay productive.

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 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 everywhere.
The C-DAS 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. For information on how you can bring BYOD to your facility, contact Primus at (800) 435-1636 or support@primuselectronics.com.