How to leverage 5G and Telecommunication

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Data is beginning to move faster in Europe. The 5G Infrastructure Public Private Partnership is working to exceed the 2010 status quo, aiming for 1,000 times more wireless area capacity and new services. Soon, dense communication of up to 7 trillion wireless devices will serve 7 billion people.

Benelux countries are well on their way to reaching their 5G network goals. On April 1, 2020, Belgian telecom group Proximus launched its 5G services. The 5G rollout will replace 4G LTE broadband connections, delivering faster download and upload speeds and reducing latency in communications between devices and the network.

In addition to telecom providers launching services on public networks, businesses and enterprises throughout Europe and Benelux, such as international airports and public transportation, have plans to create private 5G networks to meet their specific needs.

Considering the current rise of multi-access edge computing (MEC) adoption, the 5G rollout couldn't occur at a better time. With MEC architecture, you can design systems to dynamically allocate data processing, giving priority to mission-critical data from Internet of Things (IoT) devices, users' wireless devices, corporate applications, or third parties when they need them most.

By providing systems with MEC and 5G at their core, systems integrators (SIs) and value-added resellers (VARs) can give their clients high-performance systems that minimize latency — and maximize customer satisfaction.

Prepare to Meet Pent-Up Demand for Smart Systems

Smart systems promise substantial benefits, but due to the limitations of 4G LTE, users now see only limited advantages. They're poised and ready for next-gen broadband to make efficient, cost-effective, reliable, connected networks possible.

Once fast, reliable 5G service is available over a wider network, the number of smart systems utilizing technologies, such as Internet of Things (IoT), artificial intelligence (AI), augmented reality (AR) and virtual reality (VR), will skyrocket. Sis and VARs should anticipate that their clients will enterprises implement smart lighting systems that conserve energy while still facilitating work and secure buildings, and field

services equipping technicians with VR or AR for instructional or diagnostic video. Autonomous vehicles will become more mainstream, with Vehicle-to-Everything (V2X) systems protecting pedestrians, runners, and bicyclists by analyzing data through various mobile networks to alert vehicles of their locations.

Entire smart cities will also emerge, using advanced technologies to collect data, analyze it, and manage their resources and services most effectively.

What Do You Do With the Big Data?

With greatly expanded capabilities of these systems, however, will come greatly expanded volumes of data. Smart systems generate exponentially more data than most enterprises or organizations are now accustomed to collecting and processing. Moreover, for real-time use or tracking, the system must be able to transfer data smoothly, in a timely fashion, to a centralized or cloud environment where it can reach the systems, processes, and people that need it when they need it.

Edge computing gives you options. It allows you to process data at the source, saving time, and eliminating having to transmit it to the cloud or data center for processing. It's also a cost-saving solution. When it is not financially feasible to transmit all data to the cloud, you can design systems to process a portion of data at the edge — particularly critical data that must be collected and used, even if there is a disruption to the network connection.

ADLINK and Arcobel: Partnering to Deliver Security Solutions for 5G

ADLINK's SI and VAR partners are positioning themselves to meet the demand for next-gen solutions. Arcobel, a leading value-added reseller and systems integrator in Benelux, is one such partner, leveraging MEC and 5G to provide cybersecurity and surveillance solutions.

ADLINK MEC solutions, such as the MECS-7210 Edge Server, can provide the foundation for systems that respond to intrusions and alert administrators, transmitting extensive amounts of data in reduced time. AI is increasingly used to automate cybersecurity systems, so Arcobel provides its clients with solutions with the specific processors, high-performance video cards, and adequate storage capacity that AI requires —and that ADLINK accommodates.

With the increasingly active and evolving threat landscape, Arcobel can meet its clients' needs for strong cybersecurity and surveillance. And, as the number of devices increases with the availability of 5G communications, Arcobel's solutions will become even more vital to protecting enterprises' and organizations' systems and their data.

What's Your Specialty?

Whether your SI or VAR business provides security solutions or vertical-specific solutions such as those for local governments, manufacturing, military, transportation and logistics, aeronautics and aviation, or retail, 5G can open doors to new reliability, speed, and innovation for your clients. Your expertise in MEC when 5G launches can also translate to opportunities for you. Are you ready to help your clients advance

progress toward their business goals while you grow your business?

To learn more about opportunities that 5G and MEC create and for information on partnering with ADLINK, register for our webinar featuring Arcobel and ADLINK at 10 a.m. CET on 28/05/2020.