



Building Reliable Private Networks for School Districts

“DIBSYS Inc. has developed a network solution for K-12 school districts struggling to provide internet connectivity to their remote student body”

Overcoming the challenges of connectivity is critical for providing equity of access to all students. Our program makes it possible for educational organizations to quickly setup a Cellular LTE network on free spectrum to get affordable internet to low-income students.



The Problem

COVID-19 forced school districts all over the country to move to remote learning. This presented many challenges for both students and teachers, not the least of which was access. The physical school provided a certain level of equity for students, giving them access to the same tools and materials. At home, access to Wi-Fi or internet can prove difficult for students who don't have reliable internet connectivity. The divides between rural and urban, poor and middle-class become pronounced, and can substantially affect learning.

Even as the COVID threat dissipates, another spike or future pandemic could force school districts to resume remote learning. In these scenarios, students without reliable home internet will simply lose access to school resources. Districts need to proactively plan for any future disruptions while ensuring that every student has access regardless of their household internet connection. Any plan will have to account for students participating from home.

Some school districts tried to alleviate the burden of home internet connectivity by providing students and teachers with mobile hotspots, but this can quickly become costly and just isn't feasible for every school district. Others offered parking lots and buses with Wi-Fi to those who could travel, but still, cost and access is far from sustainable. There is, however, a new technology available that could be the answer for students and teachers.

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The Solution

Private LTE (pLTE) technology is a cellular-based network that relies on Citizens Broadband Radio Service (CBRS) frequencies to reach a wider area. Essentially, this solution provides a cellular network that students can access with school resources, while providing much better network security as on-site Wi-Fi. That means the better level of security, access and connectivity that is available at the school itself.

CBRS does not require spectrum licenses, which reduces the overall cost of data transmissions. This makes private LTE networks not just a reliable source school connectivity, but an affordable, cost-effective option.

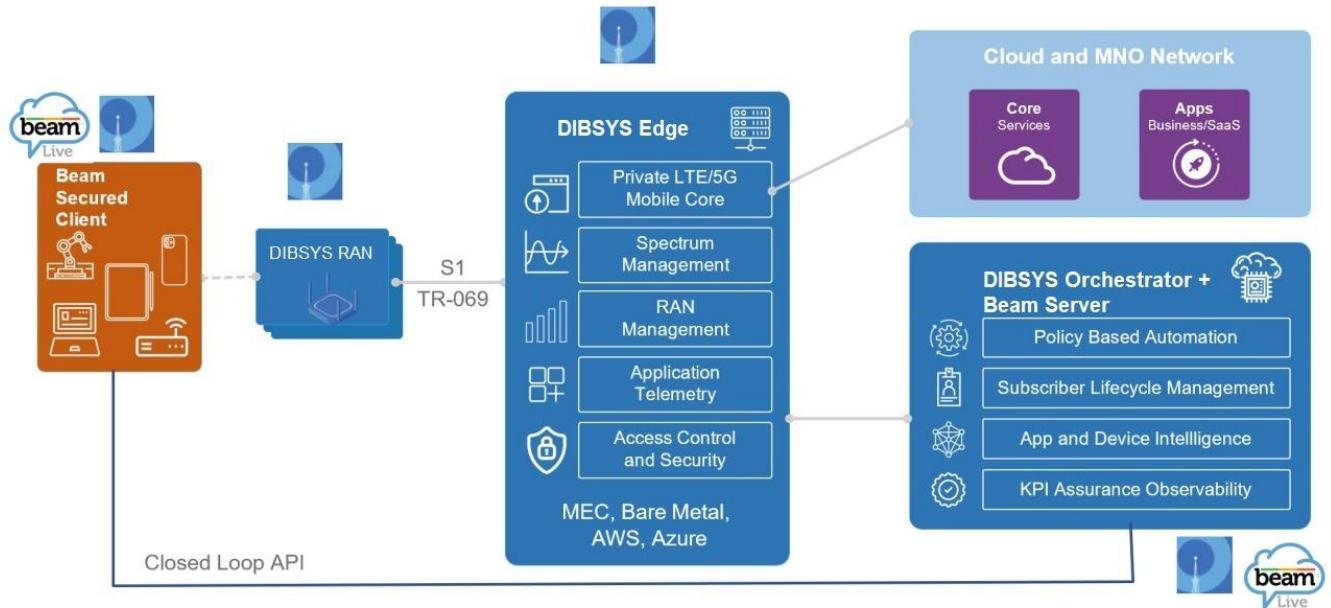
DIBSYS Inc. has developed a turnkey solution to provide end-to-end private LTE network to provide wireless broadband service for a desired area and to struggling districts. The solution is built using small cell form factor Base Stations for easy installations,

The DIBSYS solution can be quickly deployed in rural school districts and costs less than purchasing or leasing multiple hot spots for students. The need for connectivity was clear long before a global pandemic shifting learning – maybe forever. COVID-19 and any future pandemics makes it necessary to immediately and systematically address a fundamental right of each student: reliable access to the internet. Granting all students, the benefit of a high-speed internet connection is essential for their educations and future. By building these networks we hope to combat the growing and worrisome digital divide.

DIBSYS Inc.'s pLTE networks can bring connectivity to your school districts and you communities – now. pLTE networks go beyond connecting students and teachers, they provide safe and secure access to the school's internal resources while maintaining a filtered internet. School administrators don't have to worry about whether their students are accessing inappropriate resources when they provide immediate LTE connectivity. And rather than having to purchase additional equipment for every student, the private network can be accessed via a smartphone, tablet, or computer. Schools can also customize their pLTE network so it adheres to the Children's Internet Protection Act (CIPA) standards. Requirements like FERPA, HIPAA, and COPA can also be supported with a Private LTE by extending the security parameters.



DIBSYS Inc's pLTE Products:



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