Partnering with BEC Technologies, DOCOMO PACIFIC fulfilled the promise of delivering ultra-fast, secure, and reliable fixed wireless access to their business subscribers

"Our partnership with BEC Technologies has allowed us to deploy fixed wireless services, quickly and seamlessly. They have been a key contributor in the expansion of our product portfolio and higher quality of services for our clients."

– Edward Dela Cruz II, Enterprise Product Manager

CUSTOMER:

DOCOMO PACIFIC is the largest provider of personal, residential, enterprise connectivity and entertainment services in Guam and the Northern Mariana Islands

PRODUCT:

BEC GigaConnect® 6500AEL R15 4G LTE Enterprise Multi-Service Router

APPLICATION:

Fixed Wireless Access (FWA) and Business Connectivity (Failover)

DATA CONNECTIVITY:

4G LTE on DOCOMO PACIFIC Licensed Spectrum Bands

RESULTS:

By deploying the BEC 6500AEL R15, DOCOMO PACIFIC was able to deliver ultra-fast, secure, and reliable fixed wireless access for their business subscribers

Executive Summary

Due to the challenging nature of deployment locations, the cellular internet service quality DOCOMO PACIFIC offered is greatly impacted by the reduced signal quality, leading to significantly lower-than-expected data rates and overall poor subscriber experience. The robust and high-performance CPE solutions from BEC Technologies helped DOCOMO address the challenging issues and enabled them to offer new value-added services.

The Customer

DOCOMO PACIFIC is a wholly owned subsidiary of NTT DOCOMO, Japan's leading mobile operator. Founded in 1991 and Headquartered in Tamuning, Guam, DOCOMO PACIFIC is the largest provider of personal, residential, enterprise connectivity and entertainment services in Guam and the Northern Mariana Islands. DOCOMO PACIFIC was named Guam's most reliable network with the fastest speeds and best coverage by GWS in 2019, and was named 5-time winner of Best of The Pacific. DOCOMO PACIFIC is dedicated to bringing you and your family closer to the things that matter most.

In 2017, DOCOMO PACIFIC completed and made operational its 280-kilometer ATISA submarine fiber optic cable connecting Guam to the Commonwealth of Northern Mariana Islands (CNMI). This investment allowed for the further development and launch of enhanced mobile and new fixed wireless access (FWA) services.

Challenges

The primary challenges for DOCOMO PACIFIC included deployment locations with non-line of sight (NLOS) conditions and high-density tree foliage. The result in all cases is greatly reduced signal quality,

leading to significantly lower-than-expected data rates and overall poor subscriber experience. Aside from the primary challenges, DOCOMO PACIFIC also required a cost-effective solution with deployment flexibility and scalability to meet bandwidth demands and future network growth.

The company tested a variety of equipment, carefully evaluating several different manufacturers' solutions, applicable technologies, and how they worked. However, none of the solutions could adequately address the challenges.

How BEC's Solution Helped

To deliver on the promise of ultra-fast, secure, and reliable broadband for both residential and business subscribers, DOCOMO PACIFIC required a robust, high-performance CPE solution. DOCOMO PACIFIC selected BEC Technologies and its 6500AEL R15 Enterprise Multi-Service LTE Router, featuring dual-WAN interfaces, 4-port Gigabit Ethernet switch, high-power dual-band Wi-Fi (802.11ac), USB 2.0, dynamic routing, VPN, and robust firewall security features.

With the deployment of the BEC 6500AEL R15, coverage and signal reception issues were resolved. Additionally, it is fully compatible with DOCOMO PACIFIC's network, supporting all of their licensed spectrum LTE bands for increased data speeds through carrier aggregation. In addition to the exceptional performance, the 6500AEL provides an intuitive web interface enabling quick and easy subscriber self-installation. The Dual-WAN interface allows DOCOMO PACIFIC to support high availability "always-on" connectivity incorporating failover and load balancing for business-critical operations.

DOCOMO PACIFIC is also utilizing, BECentral®, BEC's cloud-based remote device management platform. As a result, they benefit from zero-touch provisioning, visual dashboards with real-time analytics intelligence, detailed reporting, performance monitoring, extensible API, and complete lifecycle management. BECentral® has become a critical component of network operations and support.

Results

In order to deliver on the promise of ultra-fast, secure, and reliable broadband for both residential and business subscribers, DOCOMO PACIFIC required a robust, high-performance CPE solution. The BEC 6500AEL R15 proved to be the right solution to meet their needs, providing exceptional coverage, signal reception, and robust connectivity. Furthermore, the versatile and feature-rich platform enables DOCOMO PACIFIC to offer new value-added services to their subscribers.

6500 Series Enterprise Multi-Service Router

Free Specialist Advice Available

For more information and advice, please call us at 972- 422- 0877 or email our sales team at sales@bectechnologies.net.