

3G DATA OFFLOAD TO WI-FI IN URBAN CENTERS IS GOOD FOR BUSINESS IN JAPAN

Quick Facts

Customer

A leading cellular operator in Japan, which provides service to train stations, stadiums, festivals and more.

Challenge

Delivering high-performance Wi-Fi in a noisy city environment.

Solution

GoNet Systems MBW base stations with xRF Beamforming Wi-Fi and specialized noise filters.

Result

Significant data offload from the cellular to the Wi-Fi network.



Key Business Drivers

With GoNet Systems, the Japanese operator was able to create a large-scale Wi-Fi offload solution.

- x2-x8 performance increase in terms of coverage and capacity
- 50% reduction in capital expenses and operating expenses
- 90% effective noise mitigation in crowded urban centers
- Co-existence with cellular base stations

The Customer

Asia is leading the world in the adoption of cellular data services with Japan taking a leading role. As a result, all Japan's tier one cellular operators are facing severe problems of 3G data congestion in urban centers.

The shift in focus of the digital information revolution to mobile is bringing major changes to our lifestyles. Cellular operators face the challenge of creating a carrier-grade, high-capacity data network that will support the growing demand for cellular data.

The Challenge

3G data congestion adversely affect the user experience with low surfing rates, interrupted media streaming and even disconnected calls. As one of the most advanced global cellular markets, Japan is facing heavy data congestion.

The high costs of cellular network equipment coupled with the lack of available spectrum forced the Tier 1 cellular providers to seek an alternative solution to alleviate the data congestion.

Wi-Fi typically offers poor performance in noisy urban environments. The cellular operators searched for Wi-Fi solution based on smart antenna beamforming technology that can deliver the required performance in outdoor city deployments.

“We are proud to be awarded such a prestigious project. Being selected by a leading Japanese operator attests to the quality, performance and economics of GoNet System's outdoor Wi-Fi solution.”

Oz Liv
CEO, GoNet Systems.

About GoNet Systems

GoNet Systems provides carrier-class Mobile Broadband Wireless (MBW) Wi-Fi solutions to service providers, municipalities and utilities looking to deploy high-performance wireless infrastructure. GoNet combines breakthrough smart antenna technology with innovative self-assembling self-healing mesh Wi-Fi architecture and an MBW system that was designed to cost-effectively support bandwidth intensive mobile broadband services such as high-speed data, video streaming, W-VoIP, video surveillance and smart grid applications. GoNet Systems mesh Wi-Fi solution provides service providers with a cost-effective and reliable means to tap into the huge install base of Wi-Fi clients and it is designed to support the future emerging growth.

The Solution

GoNet Systems was selected following an extensive series of performance trials. In the trials, the system was able to deliver full speed FTP download to a smart phone located 1.5 Km from the MBW based station.

The initial project includes large scale deployment of MBW Wi-Fi base stations and provides coverage to stadiums, convention centers and central urban locations.

GoNet Systems xRF beamforming, enabled the cellular operator to deploy a lower number of base stations to provide the required coverage. In addition the special 3G filters in the MBW series, enables co-location with cellular base stations, which simplified the deployment and reduced the projects overall costs.

“We are proud to be selected for this prestigious project” Said Oz Liv, GoNet Systems, CEO “Being selected by a leading Japanese operator attests to the quality, performance and economics of GoNet System's outdoor Wi-Fi solution.”

The Installation



The Result

The cellular operator was able to overcome data congestion in the city centers and deliver high speed data services to its users. With the deployment of a high capacity data network, the operator is looking to deploy additional, advanced services.

Over the next 3 years, we expect similar deployments in city centers around the world. The smart antenna beamforming technology makes Wi-Fi a viable solution to combat the increasing 3G data congestion.