

Customer: Government-sponsored telecom R&D center
Area: Taiwan
Solution: 4Motion® OPEN™ WiMAX
Application: Mobile WiMAX™ services

The Challenge

To develop and evaluate various services and applications for Taiwan's Mobile WiMAX policy, known as M-Taiwan.

The Solution

Implement Alvarion's Mobile WiMAX solutions, which comply with WiMAX Forum® and stringent international standards for mobile broadband networks.

The Result

Proof of concept to achieve national goals:

- Barrier-less online environment
- One of the lowest access fees in the world
- Expansion of local communications and service industries
- Aggregating efforts of manufacturers, providers and telcos to develop broadband and wireless infrastructure
- Broadband coverage in both urban and rural areas
- Viability of a nationwide Mobile WiMAX solution

Industrial Technology Research Institute (ITRI), Taiwan

Research institute leverages Mobile WiMAX™ research to prove viability of a nationwide Mobile WiMAX solution

“ After working with the WiMAX™ expert Alvarion® for two years and learning their unique Mobile WiMAX™ technology, it is clear that their 4Motion® offering is the best solution for us. ”

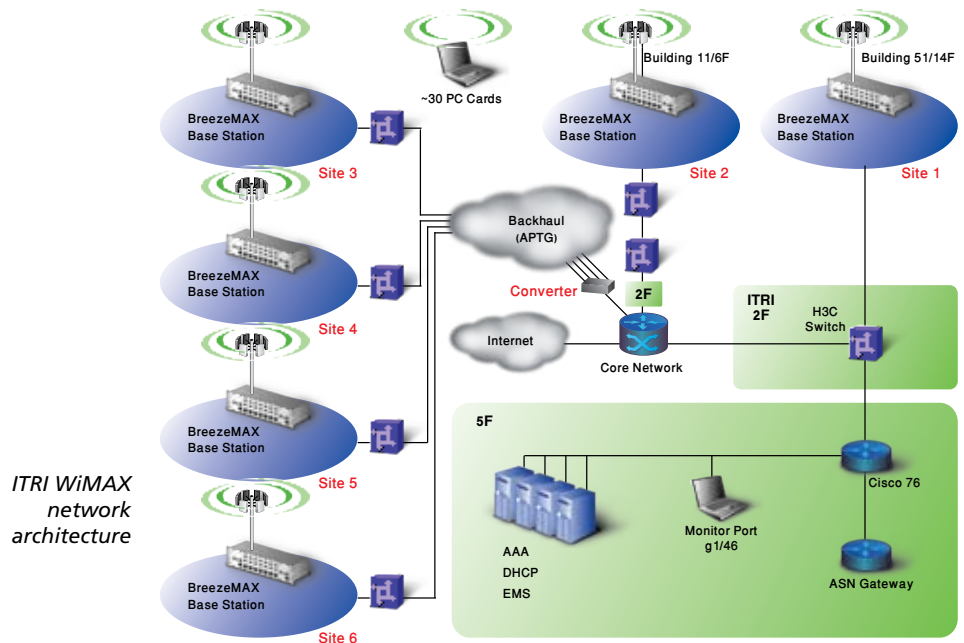
Dr. Gin-Kou Ma, Deputy General Director of SoC Technology Center, ITRI

About ITRI

The Industrial Technology Research Institute (ITRI) was founded by the Ministry of Economic Affairs in 1973 as a non-profit R&D organization for applied research and technical service. Employing more than 6,000 people and serving as the technical center for Taiwan's industry, the organization has played a vital role in the transformation of Taiwan from an agriculture-based economy to an international industrial economy. ITRI is a multidisciplinary research center with six core laboratories, five focus centers, five linkage centers, several business development units, and other supporting units. An increasingly active member in the global industrial R&D community, ITRI is headquartered in Taiwan and has branch offices in Silicon Valley, Tokyo, Berlin and Moscow.

The Challenge

The Taiwanese government sought a solution to create a barrier-less online environment that would improve the country's ranking of mobile Internet penetration and position it as one of the top countries worldwide with the most cost effective access fees. Targeted at expanding the communications and service industries in Taiwan, the government also sought to aggregate the efforts of cell phone manufacturers, content providers and telecom companies to develop a broadband and wireless infrastructure, which would reduce the digital divide by increasing coverage in urban and rural areas.



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“ *Alvarion's complete solution enables quick and easy deployment of mobile broadband services.* ”

Dr. Gin-Kou Ma, Deputy General Director of SoC Technology Center, ITRI

The Solution

Taiwan's government selected the WiMAX industry and technology for executing a national program targeted at realizing the country's broadband coverage vision and national goals. ITRI and the WiMAX Forum® established the M-Taiwan WiMAX Application Lab (MTWAL) - a proof-of-concept (PoC) lab at the ITRI campus in Hsinchu - for the purpose of testing and developing innovative Mobile WiMAX applications. Alvarion was selected as the sole supplier of WiMAX equipment for the lab, because it was the only vendor able to meet ITRI's timeline and stringent requirements for Mobile WiMAX equipment.

After successful completion of extensive indoor and lab tests, ITRI and Alvarion moved on to mobile usage test scenarios, which included the testing of various applications such as VoIP, video streaming, IPTV and document exchange while driving and walking. These test scenarios produced impressive results, including:

- Excellent service quality during connectivity
- Successful high speed service handover between sectors and base stations
- High quality video streaming, IPTV voice services, including handover, at speeds higher than 80 km/hour
- High speed broadband performance at more than 12 Mbps

Testing then continued with the expansion of network coverage throughout the Hsinchu Science Park, National Chiao Tung University, and National Tsing Hua University. In trials run over 18 sectors along 6 km of road, performance was excellent with clear handover at up to 80 km/hour and enhanced user experience.

The Result

The impressive results in this Mobile WiMAX customer benchmark are evidence of the capabilities of Alvarion's 4Motion OPEN™ WiMAX solution which is powered by Alvarion's innovative SentieM™ technologies. Setting new levels for the entire industry, these results are proof of the added value that Alvarion's products and technologies offer both providers and consumers, enabling Taiwan to benefit from a range of mobile and fixed service applications over a WiMAX service network, as well as reach remote, rural areas. Furthermore, they are paving the way for Taiwan to go mobile and realize the vision of a country with a nationwide Mobile WiMAX solution.



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About Alvarion

Alvarion is the largest WiMAX pure player, ensuring customer long-term success with fixed and mobile solutions for the full range of frequency bands. Based on its OPEN™ WiMAX strategy, the company offers superior wireless broadband infrastructure and an all-IP best-of-breed ecosystem in cooperation with its strategic partners. Alvarion boasts over 200 commercial WiMAX deployments worldwide.