

Cable AML News

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TRIPLE PLAY WIRELESS SYSTEM TRIAL A SUCCESS

An 18-month trial of a “triple play” wireless system capable of providing simultaneously digital TV, high speed data and voice has been successfully concluded in Izuka City, Fukuoka Prefecture, Japan.

The state-of-the-art system has been operated by V-Networks to provide triple play services to remote stations at distances of up to 5 km from the Main Base station.

Based on the trial data report submitted by V-Networks, the Japanese government gave an extremely high evaluation to the 18 GHz trial system for local government service.

This frequency was allocated for data transmission until now, but as a result of the triple play service trial results, the Japanese government decided to revise the law. On December 2008, the government solicited public comments and a revised law was issued in February 2009.

Continued on page 4

MICROWAVES DELIVER CABLE TV IN HIDALGO, MEXICO

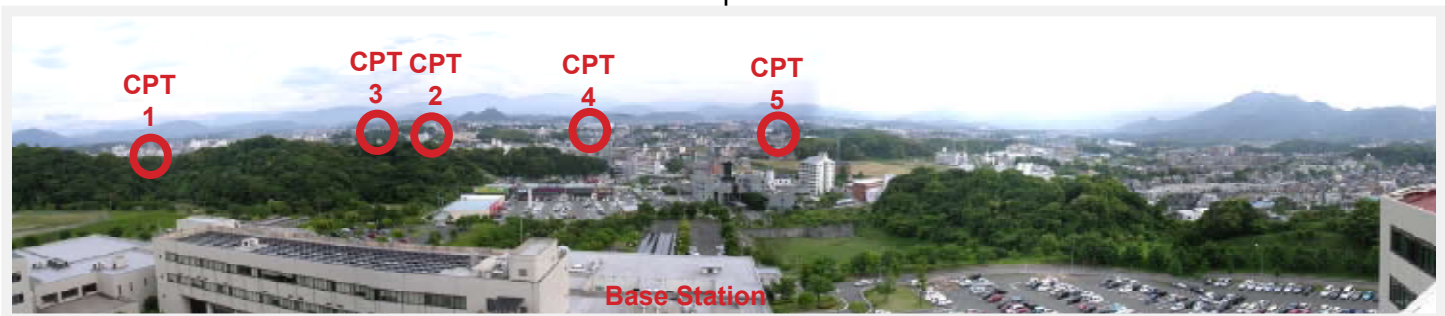
Servicio de Telecable de Huejutla, a Cable Operator in Huejutla (Mexico), needed to get Cable TV signals to the towns of Tehuetlan, Atapexco and Huautla, at distances from the headend in Huejutla ranging from 14 Km to 30 Km.



San Francisco Mountain (repeater site) from receiver antenna at Tehuetlan

The company chose a Cable AML microwave sys-

Continued on page 3



View of five remote CPT (customer premises transceiver) locations from the base station site in Izuka City, Japan

Inside....

MMDS Digital System Upgraded In Lithuania's Capital City Page 2

Cable Onda Upgrades MMDS Transmitter in Record Time Page 2

CMM Launches In-Band Wireless System Page 3

MMDS DIGITAL SYSTEM UPGRADED IN LITHUANIA'S CAPITAL CITY

It isn't always possible to jump into the latest technology. Sometimes the journey must occur in steps.

Viginta JSC Ltd. of Vilnius, capital of Lithuania, wanted to make a leap into digital broadband TV and wireless data distribution to thousands of subscribers in a service area with a radius of approximately 32 Km. The Company already provided this service under the brand name VNet and wanted the upgrade without interrupting service. So it was most important to plot a detailed transition strategy.

Cable AML engineers worked with IT Manager Vytautas Mikelaitytis to devise a step-by-step transition from their analog system to a new broadband system powered by a 500 watt transmitter; capable of transmitting both digital video and wireless internet simultaneously.

"This was an upgrade and the customer needed assurance that the transmitter was going to interface flaw-



The new MMDS system transmits from the tall building in the center of this photograph of Vilnius, Lithuania

lessly with other equipment in place," said Cable AML President Francisco Bernues. "We made the conversion from an existing channelized MMDS system, which included relocating the transmitter site, converting it from analog to digital and from channelized to broadband," Dr. Bernues said.

Consumers in Lithuania's capital now enjoy better

Continued on page 4

CABLE ONDA UPGRADES MMDS TRANSMITTER IN RECORD TIME



Cable Onda Unload 1000 Watt Transmitter

Cable Onda, the leading Cable and MMDS operator in Panama, recently upgraded a high power MMDS transmitter in the city of Colon with a 1000 watt broadband transmitter from Cable AML.

The old channelized transmitter was involved

in a fire emergency and ceased to operate without warning. Cable AML supplied an off-the shelf 1000-Watt broadband transmitter which arrived to the site the following day. The Cable Onda technicians, led by Luis

Valle, had it installed and operating in less than 2 hours after arrival, thus minimizing service disruption to Cable Onda's MMDS customers.

According to Karlos Brown, Cable Onda Engineering Manager, "Cable AML responded to our request for assistance quickly and efficiently, providing a replacement transmitter in record time. This allowed Cable Onda to restore service much faster than it would have been possible with any other alternative. The broadband transmitter is performing perfectly and as a bonus it operates with much reduced electricity and air conditioning costs."



Iran Tejada (left) with the technical crew from Cable Onda following commissioning of the 1000 Watt transmitter

CMM LAUNCHES IN-BAND WIRELESS INTERNET SYSTEM

When local provider CMM needed Base Stations for their new in-band Wireless Internet system, the choice to contact Cable AML for a solution was like placing a call to an old friend.



Carlos Esteche following installation of Base Station equipment (the CMTS is 25 Kms away, connected by fiber)

Cable AML has earned CMM's loyalty by providing the highest quality products and first rate service for many years. CMM executives and engineers were pioneers in the installation and operation of Wireless DOCSIS systems,

also supplied by Cable AML.

The new system operates completely within the 2.5-2.7 GHz band for both downstream and upstream traffic. The Base Station equipment is designed for seamless interface to a fiber backhaul connection to the Data Center more than 25 Km away.

The Base Station can provide wireless Internet service to thousands of customers. Wireless Internet provides broadband "always on" Internet connectivity.



Carlos Esteche and Miguel Orsua testing the fiber optic and base station transceiver equipment.

Hildago continued from front cover...

tem consisting of a transmitter at the Headend in Huejutla, a repeater at San Francisco and receivers at each of the 3 towns.

Rugged terrain between the towns posed an enormous challenge. The trip up the mountain at San Francisco was so treacherous that vehicles and pack animals were not an option. All the equipment was carried by people on foot, then assembled on site by company engineers.

Fiber was an unlikely option due to the terrain, but if it had been possible to run cables between the various sites, it would have cost as much as five times more. Instead, the company was able to deliver Cable TV service to the three towns efficiently and at a much lower cost.

While Servicio Telecable Huejutla has no immediate plans to provide Internet service, the Cable AML system can be upgraded in the future to two-way service.



Diagram showing the microwave links from Huejutla to three new towns

Triple Play continued from front cover...

As a result of the Government action, the system has received nationwide attention and V-Networks is planning nationwide deployments in time for the mandated conversion of analog to digital TV signals planned nationwide for July 2011.

The broadband system can provide service not only for Terrestrial digital TV broadcast and Internet service, but also for Local government LAN service, emergency broadcasting and other critical Local Government functions.



View of the base station from one of the CPT sites

Lithuania continued from page 2

coverage and simultaneous transmission of TV and data signals over a wider area with the same "legacy" wireless system that was previously in operation. "We provided a solution, not a transmitter," Dr. Bernues said.

"We have launched five DVB-T carriers with an initial carriage of 33 programs. In the next month we are planning to add more SD channels and perhaps two HD channels," said Mr. Mikelaitis. Paul Shmotolokha, Chairman of VNet added, "Our customers have seen a marked improvement in video quality and at the same time we are realizing substantial opex savings from reduced electricity costs from the more efficient Cable AML transmitters. We are very pleased with the service and support we received from Cable AML who was able to support us effectively and provide us with a quality solution at a fair price."

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