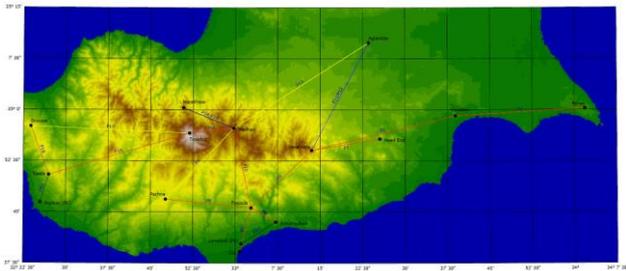


Velister

DTT Transmission Network



System Components

- NEC iPasolink Microwave Radios
- Spectracom GPS Clocks
- Enensys MIP Insertion
- Net Insight Multiplex (I+C only)
- AB Power Supplies

Introduction

In 2010 Velister was awarded the second DTT Multiplex licence for the Republic of Cyprus. Velister is a consortium owned by six Cypriot broadcasters and two TV distributors:

- ALPHA TV
- ANTENNA TV
- CNC PLUS TV
- LUMIERE TV
- SIGMA
- TELETYPOS (Mega channel)
- PRIMETEL
- CABLENET

Each member of the consortium owns 12.5% of Velister Ltd.

Velister Ltd offers Electronic Communication Services through its cutting edge Digital Video Broadcasting Terrestrial Network.

DTT Network

In April 2011, EMR was awarded a €500,000 contract from J&D Dynamic to design, supply, install and commission a new national microwave network to provide Velister with the capability to roll out Digital Terrestrial Television (DTT). The project entailed not only the design and installation of the microwave elements, but also incorporated the video multiplexers, audio codes, stand-by power systems and the integration of the Network Management Systems (NMS). One of the main challenges posed was the very tight deadlines as the system had to go live on the 1st of July 2011 in order to comply with the terms of the licence award. The project required a high level of remote network design, project management and careful logistics planning by EMR.

In May 2011, EMR delivered all the necessary hardware required for the installation. EMR engineers were deployed to oversee the installation and ensure that the equipment was installed to the highest standards. The exercise was completed in mid-June when EMR engineers commissioned the network. EMR facilitated Velister Ltd with the transition of the Republic of Cyprus to the Digital TV age by the 1st July 2011 and the subsequent termination of all analogue broadcasting.

Velister

DTT Transmission Network



In September 2011 EMR optimised the network and with a new remote Network Management System (NMS) EMR can monitor and diagnose any network problems from its offices in Dunboyne, Co Meath. NMS uses SNMP Manager/Agent Technology and provides easy-to-use remote web-based performance monitoring, control, configuration and management of the clients' network.

The network solution consists of 20 IP microwave links, power supplies, GPS clocking and MIP insertion equipment. This was one of the first all IP networks built for the DTT industry, utilising the new IP iPasolink range of digital microwave radio products from NEC.

The Velister network has already expanded and will require additional links. The next phase of the network is to integrate all the management system into a top level manager. EMR brings its extensive experience of its SCADA business to the next phase which will be in early March 2012.

About EMR

Established in the early 1980s EMR has grown to become a leading integrator of microwave and control systems for the broadcast, telecoms and utility sectors in Ireland and overseas. With a team of RF network planners, automation engineers, installation and support personnel, we work with world class manufacturers to deliver robust, turn-key solutions that meet current requirements and are flexible to meet future demands.



"EMR has worked with J&D Dynamics in the past when we rolled out the CYBC DTT network in Cyprus. When J&D was appointed main contractor for the Velister project, we had no hesitation in approaching EMR to design, supply and commission the microwave network. EMR has proven yet again that they can deliver complicated international projects on time and can also remotely manage and address any service issues that may arise.

EMR is highly recommended for their attention to detail and professional delivery through their dedicated engineering team."

Demetres Onouphriou, JD Dynamic Cyprus