Success Story : TVCable (Ecuador)

Building a Manageable, Robust Fiber Transport Network

Customer: TvCable

TvCable is one of the very important telecommunications companies in Ecuador. Founded in 1986, they provide fixed line telephony services, broadband Internet service to meet the constant demands and triple play services such as paid subscription television.

The Challenge	Equipment Purchase	Benefits
• Centralized Network Management System • Optical Redundancy Path Demand • High Capacity Network Access	• FRM220 Multi-Service Platform • FRM220-NMC • FRM220-4G-3S • FRM220-10/100i • Software SmartView	• The EMS software provides TvCable the ability to manage all chassis, transponders and converters in real time. • Fulfills the target to incorporate fiber transportation network with redundancy.

About CTC Union

CTC Union, founded in 1993, is committed to developing and manufacturing and selling network communication products. In particular, the focus on fiber optical technologies, Ethernet technologies and the integration of broadband access technologies. With leading-edge technology and high quality service as the driving force, CTC Union continued steady growth, and become a top global equipment supplier of innovative last-mile access in the telecommunications market.

System Requirements and Challenges

TvCable contracts transport capacity through another carrier, Telconet, to reach all Ecuadorian territory. TvCable has aerial fiber optical installation, which is vulnerable to many failures. In addition there was no optical redundancy provided in this last mile.

- Need a solution to the continuous transmission loss in optical link between TvCable's node and Telconet's node.
- Requirements for a Centralized Network Management System.

CTC Union Solutions

In order to solve these problems, TvCable has deployed the FRM220-CH20 multi-service platform with transponder cards (FRM220-4G-3S) to provide the optical 1+1 redundancy path. Main and backup paths take different physical paths.

Units of FRM220-CH20 platform are installed in TvCable's nodes in some Ecuadorian cities and the other FRM220-CH20 platforms are installed in Telconet's premises. In order to provide local and remote management through CTC Union's SmartView EMS, TvCable utilizes the FRM220-10/100i fiber converters to reach remote management cards installed in Telconet's FRM220 chassis. With this solution, TvCable wants to reduce to zero the traffic lost from last mile optical breaks.
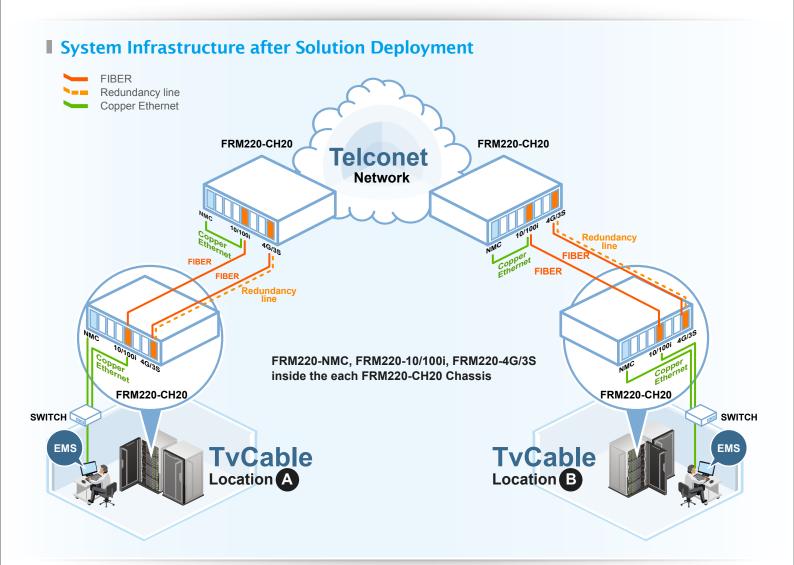
FRM220-CH20 FRM220-NMC FRM220-10/100i FRM220-4G-3S EMS

Benefits

- By leveraging existed Telconet fiber network infrastructure and deploying CTC Union FRM220 series multi-service chassis solution, TVcable has fulfilled its target to create redundant fiber transportation network nodes.
- By deploying the CTC Union FRM220 series and SmartView EMS, TVcable can completely manage and monitor the deployed FRM220 chassis both at local and Telconet network nodes in real time.

System Infrastructure after Solution Deployment

FIBER
Redundancy line
Copper Ethernet

FRM220-CH20   FRM220-CH20

Telconet
Network

NMC 10/100i 4G/3S   NMC 10/100i 4G/3S
Copper   Copper
Ethernet   Ethernet
FIBER   Redundancy line
FIBER   Redundancy line   FIBER
                              FIBER

NMC 10/100i 4G/3S   NMC 10/100i 4G/3S
Copper   Copper
Ethernet   Ethernet

FRM220-NMC, FRM220-10/100i, FRM220-4G/3S inside the each FRM220-CH20 Chassis

FRM220-CH20   FRM220-CH20

SWITCH   SWITCH

EMS   EMS

TvCable   TvCable
Location Ⓐ   Location Ⓑ

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