

Compressed Voice System

Case Study



Compressed Voice System

AirTel, India



“CVS enables AirTel to provide value-added services over limited bandwidth.”

Naveen Rao, General Manager of Marketing, MRO-TEK

Challenge

- Reduce bandwidth costs
- Accommodate bandwidth surges
- Increase capacity of PDH backbone

Solution

RAD's Compressed Voice System (CVS) deployed at the MSCs squeezes more traffic onto one line, reducing the number of required leased lines and increasing the capacity of the backbone network.

Benefits

- Saves on leased line costs
- Improves competitive edge
- Protects investment in existing network

GSM Operator Lowers Costs and Speeds Deployment with RAD's Compressed Voice System

India's AirTel Reduces the Number of Leased Lines between MSCs

AirTel, India's largest mobile operator and a member of the Bharti Tele-Ventures group, provides cellular services across 16 telecom circles, or regions, to 1.5 million users. Since customers in each telecom circle can choose from among four mobile service providers, AirTel must remain competitive to win subscribers. Therefore, it is essential for AirTel to lower the cost of its service and to deploy services quickly.

Low Cost MSC Connectivity

Due to the large geographic area they comprise, telecom circles often require deployment of more than one mobile switching center (MSC). AirTel connects between MSCs using leased lines. With the help of the local RAD distributor MRO-TEK, AirTel deployed RAD's CVS™ compressed voice system based on the Kilomux-2100™ multiplexer platform to maximize bandwidth utilization of each leased line. At each MSC, the Kilomux-2100 multiplexer compresses traffic from six E1 lines onto one E1 line, significantly reducing the number of lines AirTel leases from the incumbent carrier, thereby achieving the lowest possible connectivity costs between MSCs.

Flexible Bandwidth Provisioning

In anticipation of traffic surges in particular regions due to political demonstrations or festivals and other cultural events, AirTel has configured CVS between base station controllers (BSCs) and MSCs that are connected by a single E1 line. This enables AirTel to accommodate spurts of increased cellular traffic in those regions.



Compressed Voice System

Case Study

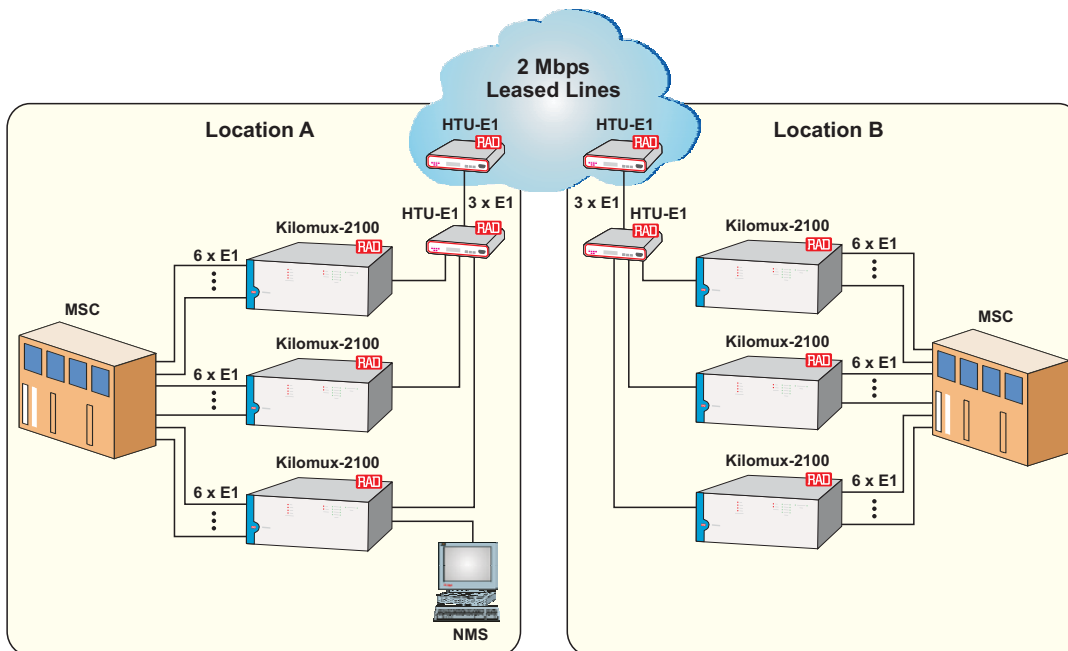
Compressed Voice System AirTel, India

Using RAD's CVS, AirTel achieves the lowest possible connectivity costs between MSCs.



Preserves Legacy Network

As one of the first cellular operators in India, in some locations the AirTel backbone is based on a microwave PDH network with 16 E1 line capacity, insufficient for today's demand for cellular bandwidth. Since CVS increases the transport capacity of the PDH network, AirTel can deliver all services over this network, without the need to upgrade to an SDH network (63 E1 capacity), which it was considering before installing the CVS system. "CVS enables AirTel to provide value-added services over limited bandwidth," says Mr. Naveen Rao, General Manager of Marketing at MRO-TEK.



data communications

www.rad.com

Corporate Headquarters
RAD Data Communications Ltd.
24 Raoul Wallenberg Street
Tel Aviv 69719, Israel
Tel: 972-3-6458181
Fax: 972-3-6498250
Email: market@rad.co.il

US Headquarters
RAD Data Communications Inc.
900 Corporate Drive
Mahwah, NJ 07430, USA
Tel: (201) 529-1100
Toll free: (800) 444-7234
Fax: (201) 529-5777
Email: market@radusa.com