

Multiservice over Ethernet

Case Study



Multiservice over Ethernet CityLink Melbourne Limited, Australia



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Andrew Gary Butler, Support Engineer,
CityLink Melbourne Limited

Challenge

To deliver emergency voice services over an Ethernet-enabled ATM backbone while preparing for migration to a Gigabit Ethernet backbone

Solution

RAD's IPmux-1 TDMoIP gateway converts the E1 voice traffic from CityLink's key system into IP packets. An ATM switch enables transmission of Ethernet over the ATM network, thus ensuring QoS.

Benefits of RAD's IPmux

- Provides clear channel for the voice traffic
- Compact device
- Provides built-in migration path to packet-switched network

Major Highway Developer Deploys RAD's TDMoIP Products to Achieve Reliable and Ethernet-Ready Emergency Telephone Network

CityLink Melbourne Limited has set new standards in the management of major urban expressways. The CityLink 22-kilometer (14-mile) urban motorway in Melbourne is the first fully electronic tollway in Australia and is one of only three in the world. On CityLink, there are no traffic lights, no toll plazas or gates and no traffic bottlenecks. Drivers never have to slow down to pay tolls. Instead, a sophisticated tracking system collects all tolls electronically, at speed, as drivers pass underneath an overhead gantry. The result is fast, safe and stress-free travel. “The successful completion of CityLink changed the face of the transport system in Melbourne and transformed toll road travel into an ‘open-road’ experience,” says Andrew Gary Butler, Support Engineer at CityLink.

Smooth Migration to Ethernet Backbone

The CityLink tollway features several systems to ensure traveler safety, including closed-circuit TV cameras that constantly monitor tunnels, automatic incident and fire detection systems, emergency telephones, communications systems and fire-fighting equipment.

CityLink recently deployed RAD's IPmux-1™ TDMoIP® gateway to replace the obsolete IBM ATM equipment in its emergency telephone network that provided the private voice circuit over ATM. “The IPmux units have provided trouble-free connectivity over the ATM ELANs,” states Butler. “But the main reason we selected the IPmux is that it will enable us to easily migrate from our current IBM ATM backbone to a Gigabit Ethernet backbone when we decide to do so.” The solution was supplied to CityLink by Paclink, a RAD distributor in Australia and a leader in advanced telecommunications access solutions in Australia and across the Pacific.

TDMoIP®
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RAD
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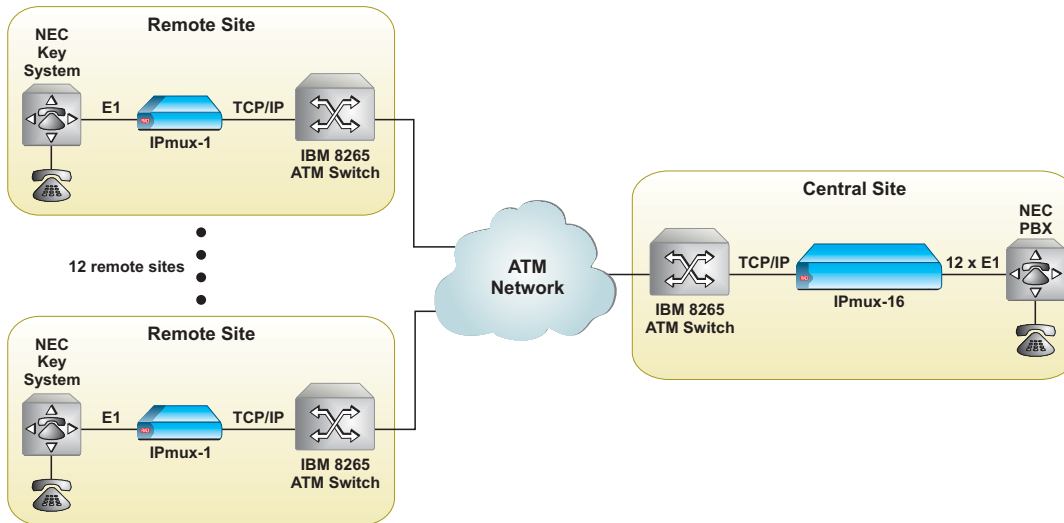
“The IPmux units have provided trouble-free connectivity over the ATM ELANs.”



Andrew Gary Butler, Support Engineer,
CityLink Melbourne Limited

Innovative Technology

TDMoIP is a transport technology that transparently and economically extends voice, video or data circuits across packet-switched networks. A simple alternative to VoIP, TDMoIP protects the investment in legacy telephony systems while enabling a smooth migration to IP, Ethernet and MPLS networks. RAD's IPmux™ TDMoIP gateways emulate E1/T1 and E3/T3 circuits over IP networks with complete transparency.



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.com

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