Dimetis Case Study



Video-Aware OSS for Nationwide Network

for TM Forum, Multi-Technology Network Management NGOSS



Implementing a Video-Aware OSS Across a Nationwide Broadcast/Media Network

Company submitting case study:

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Applicable TM Forum Technical Areas:

Multi-technology Network Management, NGOSS

Viewpoint:

Software vendor and System Integrator perspective

Services:

Video, Voice, Data, IPTV, VPN, Content

Network Technologies:

Sonet/SDH, MPLS, Converged Network, Broadband

Business Challenge: Current/legacy OSS and Network Management systems cannot quickly provision and realtime manage video services per growing market demands.

Business Opportunity: Provision & Manage Video Services "on-the-fly" to:

- Increase market share in lucrative, high-growth, media-rich communications market
- Gain competitive advantages over other carriers/service providers
- Increase revenues and profit margins

With increasing bandwidth demand at both metro and long haul levels due to "media-rich" transport applications, a major US-based provider of triple-play services desired a more expedient way to provision and manage video communication over its nationwide, intercity fiber optic network. The challenge was to maximize revenue contribution from high profile video content providers who desire "immediate" video circuit provisioning with real-time video management/control, features their current OSS and network management systems cannot provide.

The desired system needed to provide for customer network configuration, connection and bandwidth management, scheduling, path finding, redundancy switching, permanent monitoring of all nodes, ports and connections, and export of billing data. Furthermore the system needed to provide a portable and scaleable architecture to readily couple and be compatible with next generation OSS platforms, still being internally evaluated and researched.

Solution Implementation:

Built from a standards-based, modular software architecture, the design was easily fine-tuned to the specifics of the service provider and their end-user customers using a Client-Server model running Linux with an Oracle database, implemented in Java on a fault-tolerant server. End-User customer access is through a web client with additional "hooks" into the customer's management system. Communication/ control with both the transport network and videospecific equipment is through SNMP.



Deployment and Results:

Installed and operational, the video-aware management system provides a unique modular solution for media companies and video broadcasters, allowing them to transport rich media content (including HDTV -High Definition TV, and compressed/uncompressed Standard Definition TV) as well as large video files. Point-to-point and point-to-multipoint connections for video and Ethernet as well as point-to-point T1 connections are also supported across the nationwide network.

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Network Planning & Control Systems for Telekom Austria AG



Please select all categories that apply to your case study. These categories will be used for placement on the TM Forum website and to make your case study retrievable by the TM Forum website search engine:

VIEWPOINT:		
	Service provider perspective	
X	Software vendor perspective	
	Hardware vendor perspective	
X	System integrator perspective	
SERV	TICES:	
X	Voice	
X	Video	
X	Data	
X	VoIP	
X	IPTV	
X	VPN	
X	Content	

NET	NETWORK TECHNOLOGIES:	
	Mobile GSM/GPRS	
	Mobile CDMA/EVDO	
	Mobile Edge/UMTS	
	ATM	
X	SONET/SDH	
X	MPLS	
X	Ethernet	
	Frame Relay	
X	Converged network	
	Cable	
	Satellite	
X	Broadband	
	Fixed Line	
	DSL	
X	IP	
	WiFi/WiMax	

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Network Planning & Control Systems for Telekom Austria AG

Applicable Telecom Application Map Categories: (check all that apply)

Marke	t/Sales
1.1aine	Campaign Management
	Channel Sales Management
	Product/Service Catalogue
	Product Life Cycle Management
	Troduct Ene Cycle Management
Produc	et
	Product/Service Catalogue
	Product Life Cycle Management
Custor	ner Management
	Customer Contact, Retention &
	Loyalty
X	Customer Self Management
X	Order Management
X	Customer QoS/SLA Management
	Customer Service/Account
	Problem Resolution
X	Customer Billing Management
	Collection and Receivables
	Management
	Fraud Management
~ .	
Servic	e Management
	Service Design/Assign
	Service Configuration
	Management
X	Service Performance Management
X	Service Quality Monitoring &
	Impact Analysis
	Service Problem Management
X	Revenue Assurance Management
	Service Rating/Discounting
	Management

Res	ource Management
X	Resource Inventory Management
11	Workforce Management
X	Resource Planning/Optimization
X X X	Resource Design/Assign
X	Resource Activation
X	Resource Provisioning/ Configuration
	Resource Logistics
X	Correlation & Root Cause Analysis
	Resource Performance
X	Monitoring/Management
	Resource Data Mediation
X	Resource Status Monitoring
	Pasauraa Tasting Managament
X	Resource Testing Management Resource Problem Management
Λ	
	Billing Data Mediation Arbitrage Management
	Arourage Management
X	Real-time Billing Management
Ente	erprise Management
	HR Management
	Financial Management
	Asset Management
	Security Management
	Knowledge Management
Sup	plier/Partner Manager
•	Partner Management
	Supply Chain Management
X	Wholesale/Interconnect Billing