



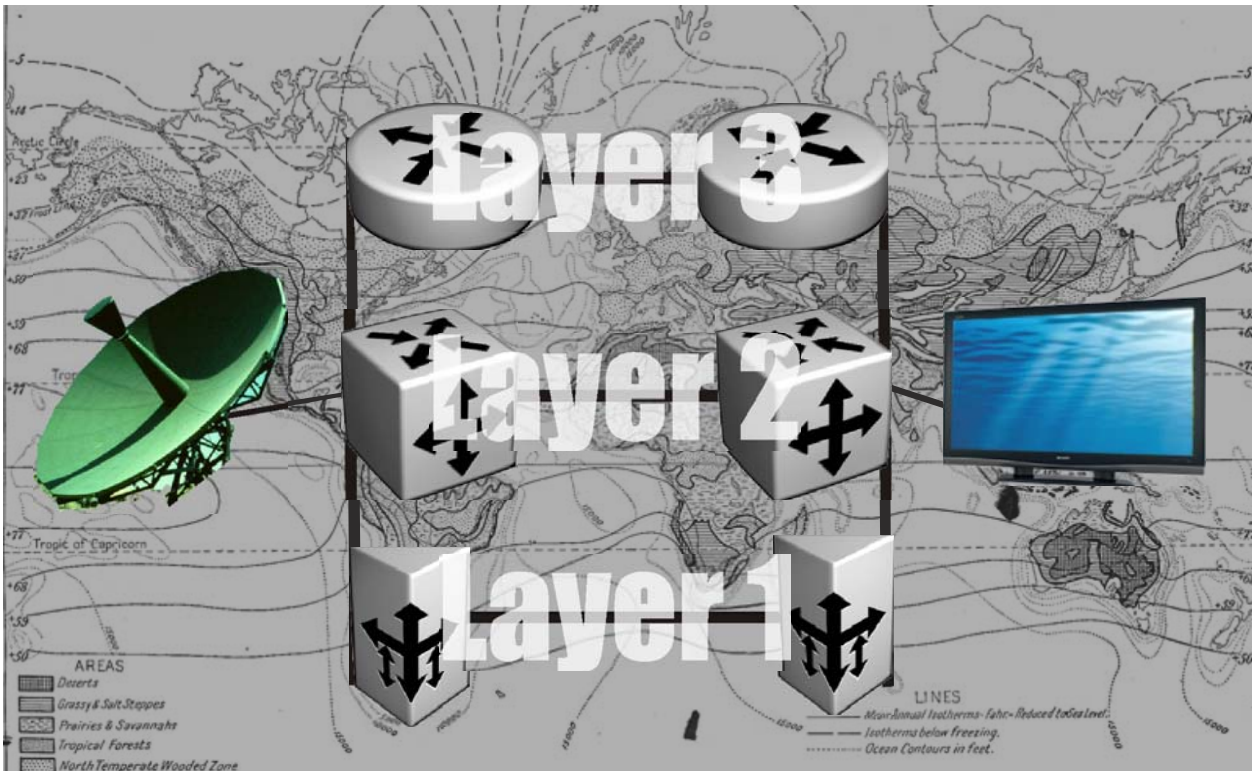
**TelecomView**  
*information, opinion, analysis*

**TelcoTV Networking**

## Networking Strategies for TelcoTV Services

Understanding how metro aggregation networks should be structured to carry TelcoTV traffic.

TelcoTV services will put an increasingly large traffic load on the metro aggregation networks that connect the video headend with the access systems. This report describes the technologies that are available along with strategies for applying them.



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# Networking Strategies for TelcoTV Services

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## 8 Appendix I: Companies in this Report

The following companies were consulted or profiled for this report.

**Table 8-1: Companies Consulted for this Report**

Company	Description	Layer 1 Systems	Layer 2 Systems	Layer 3 Systems
Alcatel-Lucent	Telecom systems company	Yes	Yes	No
Ciena	Optical systems company	Yes	No	No
Cisco	IP networking company	Yes	Yes	Yes
ECI Telecom	Telecom systems company	Yes	Yes	No
Juniper Networks	IP routing company	No	No	Yes
Net Insight	Optical systems company	Yes	No	No
Nokia Siemens Networks	Telecom systems company	Yes	Yes	No
Nortel	Telecom systems company	Yes	Yes	No
Sun Microsystems	Computer systems company	Yes	No	No

Source: TelecomView 2007

## 9 Appendix II: Glossary

The following terms and organizations have been referred to in the text.

<b>Acronym</b>	<b>Definition</b>
AAA	Authentication, Authorization and Accounting
ABC	American Broadcasting Company
API	Application Program Interface
ARPU	Average Revenue per User (Usually monthly)
ATCA	Advanced Telecom Computing Architecture
ATIS	Alliance for Telecommunications Industry Solutions
ATV	Asia Television Limited
Billion	1,000,000,000 ( 1,000 Million)
BRAS	Broadband Remote Access Server
BT	British Telecom
CAPEX	Capital Expenditure
CNBC	Consumer News and Business Channel
CNN	Cable News Network
CNO	Cable Network Operator (See also MSO)
CPE	Customer Premise Equipment
CPGA	Cost per gross add
CSCF	Call Session Control Function
DS3	NA transmission standard for wideband communications
DSL	Digital Subscriber Line
EBU	European Broadcasting Union
ESPN	Entertainment and Sports Programming Network
ETSI	European Telecommunications Standards Institute
EU	European Union
FA	Football Association
FCC	Federal Communications Commission
FNO	Fixed Network Operator
GHz	Giga Hertz
HBO	Home Box Office
HD	High Definition
Hz	Hertz
IDP	Intrusion Detection and Protection
IETF	Internet Engineering Task Force
IMS	IP Multimedia Subsystem
INO	Integrated Network Operator
IP	Internet Protocol
IP v 6	IP version 6
IP/MPLS	IP/ Multi Protocol Label Switching
IPDC	Internet Protocol Data Casting
IPTV	Internet Protocol TeleVision





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<b>Acronym</b>	<b>Definition</b>
ISP	Internet Service Provider
ITN	Independent Television News
ITU	International Telecommunications Union
kbps	Kilo bits per second
KDDI	Japanese Mobile Operator
kHz	Kilo Hertz
km	Kilometer
kW	Kilowatt
L2CP	Layer 2 Control Protocol
LG	Lucky Goldstar
LLU	Local Loop Unbundling
MAC	Media Access Control
Mbps	Mega bits per second
MHz	Mega Hertz
Million	1,000,000
MPEG	Moving Picture Experts Group
MPLS	MultiProtocol Label Switching
MSNBC	Microsoft NBC network
MSO	Multimedia Services Operator (See also CNO)
MTV	Music Television
NGN	Next Generation Networks
NPV	Net Present Value
NPVR	Network Personal Video Recorder
NRA	National Regulatory Authority
NTT	Nippon Telegraph and Telephone Corporation
OPEX	Operating Expenditure
OSA	Open System Architecture
OSS/BSS	Operational Support System/Billing Support System
PATS	Publicly Available Telephone Service
PBX	Private Branch Exchange
PCCW	Pacific Century CyberWorks Limited
PDA	Personal Digital Assistant
PRD	Product Requirements Definition
PSTN	Public Switched Telephone Network
PTT	See PoC
PVR	Personal Video Recorder
QoE	Quality of Experience
QoS	Quality of Service
QVGA	Quarter Video Graphics Array
RAI	Radiotelevisione Italiani
RTE	Radio Telefís Éireann
SCCAN	Seamless Converged Communication Across Networks
SDH	Synchronous Digital Hierarchy
SHE	Super HeadEnd
SIP	Session Initiation Protocol
SK Telecom	Korean mobile operator



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<b>Acronym</b>	<b>Definition</b>
SMS	Short Message Service
SONET	Synchronous Optical NETWORKing
SS7	Signaling System 7
TE	Traffic Engineering
TIM	Telecom Italia Mobile
TISPAN	See ETSI
TV	Television
UK	United Kingdom
US	United States
VCR	Video Cassette Recorder
VHO	Video Hub Office
VLAN	Virtual Local Area Network
VoD	Video on Demand
VoIP	Voice over Internet Protocol
VPLS	Virtual Private LAN System
VPN	Virtual Private Network
VSO	Video Serving Office
WACC	Weighted Average Cost of Capital
WAN	Wide Area Network
ZDF	Zweites Deutsches Fernsehen