

Metanoia, Inc.
Critical Systems Thinking™

Smart Management for Robust Carrier Network Health and Reduced TCO!

Panel – NANOG 54

Vishal Sharma
Metanoia, Inc.
Email: experts@metanoia-inc.com
Web: <http://www.metanoia-inc.com>
Phone: 1-888-641-0082
Fax: 1-888-641-0086

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Why Look at Network Management?

What are the network evolution, data, consumer behavior, and technology trends driving a look at better management?

- **Networks converging to all-IP-based**
- **Carrier Ethernet becoming popular**
- **MPLS-TP to extend packet-like mgt. to access**
- **Data vols. exploding – driven by video & multimedia content**
 - **Consumer content consumption rising – 44% time by consumers is spent on content – video, movies, music, news! (BT finding)**
- **Need for a “service layer” and *managed* network services**

Why is Network Management More Important *Today* Than Ever?

What is the cost of not having proper management capabilities, tools, processes, practices, and systems?

- **Convergence → less equipment, more functionality per system**
- **Management is *key* → single malfunction impacts multiple layers, many services**
- **Cost of not having proper network management → v. high**

- **Impacts Opex and Revenue → Affects profitability!**

Hundreds of thousands of \$\$ (true *irrespective* of operator size!)

- **Configuration loopholes**
- **Configuration errors, improper auditing**
- **Lack of consolidated view of network infrastructure**

Purpose of the Panel

- Explore, discuss, and debate a set of issues that focus on *better management* of the network to both operate a *healthy network* and reduce the operator's *total cost of ownership*
- Have three perspectives represented on the panel:
 - **Operators** of different types – Tier 1, content-centric, emerging
 - **System vendors**
 - **Software providers**
- Focus on *configuration management/audit*: verifying that the equipment and services are configured right & identify **misconfigurations**

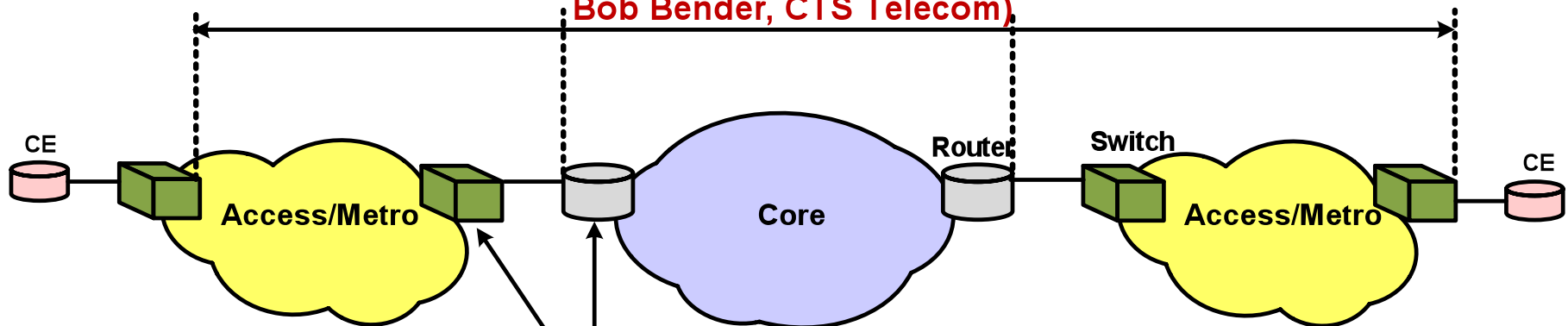
Organization of the Panel – A Top-Down Look!

1.

Service Configuration & Management (Bruce Katzel, Amartus)

2.

End-to-End Network Management
(Jay Moran, AOL
Shawn Moriss, NTT America
Bob Bender, CTS Telecom)



3. On-Box Management
(Colby Barth, Juniper)