



Cisco IT Case Study: Enabling Medianet Technologies

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Overview

- Challenge
 - Manage 32,000 video endpoints by 2012
- Solution
 - Enable Cisco medianet technologies in phases
- Results
 - Continuing to meet SLAs without huge staffing increases
- Next Steps
 - Enable more medianet features in more places in the network

Challenge

Manage 35,000 video endpoints by 2012

- Automate management, troubleshooting, and provisioning to support growing number of video endpoints
- Trace an individual call in progress to find the source of congestion or jitter
- Efficiently provision tens of thousands of new video endpoints
Including Cisco Video Surveillance IP Cameras and Cisco Digital Media Players



Solution

Enable Cisco medianet technologies in phases

- Upgraded Cisco IOS software and turned on Cisco medianet technologies
- Began with the places in the network where medianet features will have the biggest impact
- Phase 1: Enabled Performance Monitor in ~9000 Cisco Virtual Office routers

Limited bandwidth in homes and inability to physically touch devices make good monitoring and troubleshooting capabilities essential

- Phase 2: Adding Mediatrace

Monitors a flow from point to point across all hops

First implementation will be in San Jose and Bangalore

“Eventually the whole Cisco network will support mediatrace, but it’s not necessary to wait to upgrade the entire network before experiencing the benefits. Every hop that’s mediatrace-capable will report its status, helping engineers to identify the source of issues affecting the user experience.”

Plamen Nedeltchev

Distinguished IT Engineer and Principal Architect for Borderless Networks

Results

Continuing to meet SLAs without huge staffing increases

- Can troubleshoot quality issues during video calls, using Performance Monitor
- Simplified monitoring and troubleshooting of home office routers
- Can identify problems before they affect more people

Alert sent when congestion or jitter exceeds a defined threshold

- Will save 2000+ hours on endpoint provisioning over 1.5 years

Auto Smartports feature accelerates provisioning of IP cameras and digital media players from 25-45 minutes to 5 minutes

Installers need less training



Next Steps

Enable more medianet features, in more places in the network

- Monitoring the user experience end-to-end and gaining better control of endpoints, with media services interface (MSI)
- Collecting session detail records about the user experience from MSI-capable endpoints
- Video usage modeling and more accurate capacity planning using IPSLA Video Operations (VO)
- Usage-based billing
- Unified management with Cisco Prime tools

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