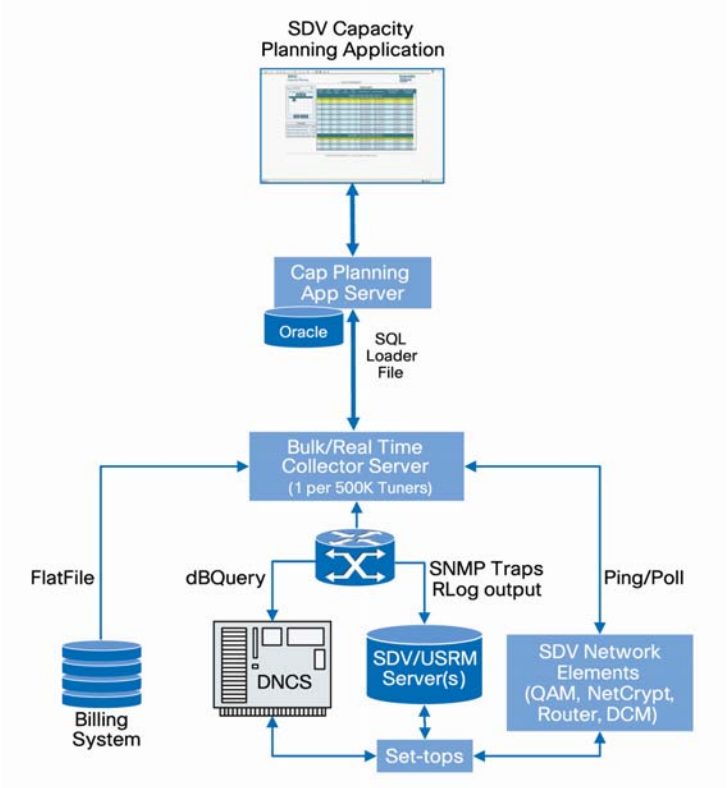
Switched Digital Video Capacity Planning

The Switched Digital Video (SDV) Capacity Planning application allows systems to monitor their switched digital video system capacity utilization in order to define changes needed before customers are affected. The application enables sites to easily identify service groups approaching bandwidth limits. Service group level analysis and modeling can be done to proactively address potential capacity issues. Modeling options include adding quadrature amplitude modulation (QAM) 256 RF frequencies and service group sizing (100, 50, and 33 percent). The tool also includes multiple reports that provide information from highest peak utilization by service group to the amount of time that a service group spent over defined system thresholds.

Switched Digital Video Capacity Planning application requires a Bulk/Real-Time Collector Server.

Figure 1. Architecture Diagram



Features

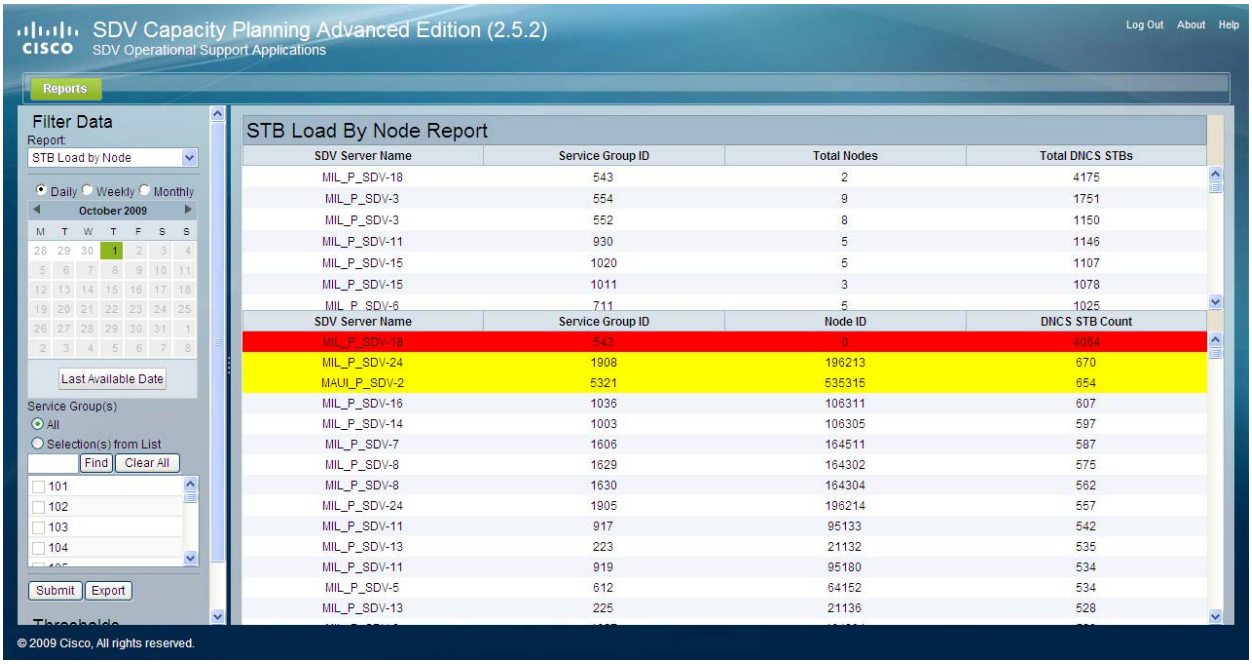
- Able to support multivendor SDV platforms
- Next-day capacity analysis by service group
- Thresholds can be configured for quick view issue alerts
- Drill down to specific service groups for additional analysis and comparison

- Reports include:
  - Quick view operations dashboard
  - Service group trending
  - Service group utilization
  - Digital Home Communication Terminal (DHCT) tuner activity by service group
  - Top SDV channels at peak
  - Set-top box (STB) loading by service group
  - Top SDV channels by service group
  - STB loading by node
  - Tuner loading by SDV server
  - STB loading by SDV server
- Daily, weekly, or monthly reports available
- Reports easily exportable to Excel

Operational Benefits and Usage

- Quantifies peak bandwidth utilization based on actual SDV channel request
- Identifies network segmentation priorities and strategies
- Offers proactive blocking avoidance due to exceeding bandwidth
- Measures percent and type (HD/SD) of channels driving peaks in bandwidth utilization across all service groups, which is used in determining switched channel modifications to optimize bandwidth pool
- Defines number of active set-top boxes or tuners associated with nodes/service groups/SDV servers to clearly define network segmentation strategies allowing for optimization of bandwidth and investment

Figure 2. Application Screen Shots



Ordering Information

Table 1. Ordering Information

Part Number	All SDV Operational Support Applications
4023082	SDV Collector (software only)
4023086	SDV Real-Time Collector (software only)
4023164	SDV Capacity Planning (software only)
4017654	Hardware Server for SDV Capacity Planning
752643	On-site Installation of SDV Support Applications (covers Collector and one application)
755099	Annual Maintenance for each Standard Edition Application

Cisco Services

Using the Cisco Lifecycle Services approach, Cisco and our partners offer a broad portfolio of end-to-end services to support Cisco Operations Support Systems Applications. These services are based on proven methodologies for deploying, operating, and optimizing Switched Digital Video applications. Initial planning and design services, for example, can help you meet aggressive deployment schedules and minimize network disruption during implementation. Operate services reduce the risk of communications downtime with expert technical support, and optimize services enhance solution performance for operational excellence. Cisco and our partners offer a system-level service and support approach that can help you create and maintain a resilient, converged network that meets your business needs.

For More Information

For more information about Switched Digital Video applications and services, contact your local Cisco account representative or visit http://www.cisco.com/en/US/products/ps9119/Products_Sub_Category_Home.html.

Americas Headquarters
Cisco Systems, Inc.
San Jose, CA

Asia Pacific Headquarters
Cisco Systems (USA) Pte. Ltd.
Singapore

Europe Headquarters
Cisco Systems International BV
Amsterdam, The Netherlands

Cisco has more than 200 offices worldwide. Addresses, phone numbers, and fax numbers are listed on the Cisco Website at **www.cisco.com/go/offices.**

Printed in USA C78-564700-01 11/09