

Headend Systems

Model D9500 Switched Digital Video (SDV) Server

Description

The Model D9500 Switched Digital Video (SDV) Server is an integral component of the Scientific Atlanta SDV system.

Based on a standard Linux platform, the SDV Server functions as a distributed Session and Resource Manager (SRM) for Switched Digital Video. This high-performance server processes SDV channel change requests, manages resource allocations in the edge modulators, binds multicast content to available resources, and maintains up-to-date

information on all switched digital content being viewed. This visibility gives the operator the flexibility to optimize the SDV system for bandwidth efficiency and to improve targeted services. This information is also used to generate a Mini-Carousel file which provides tuning information to the set-tops over the in-band video channel.



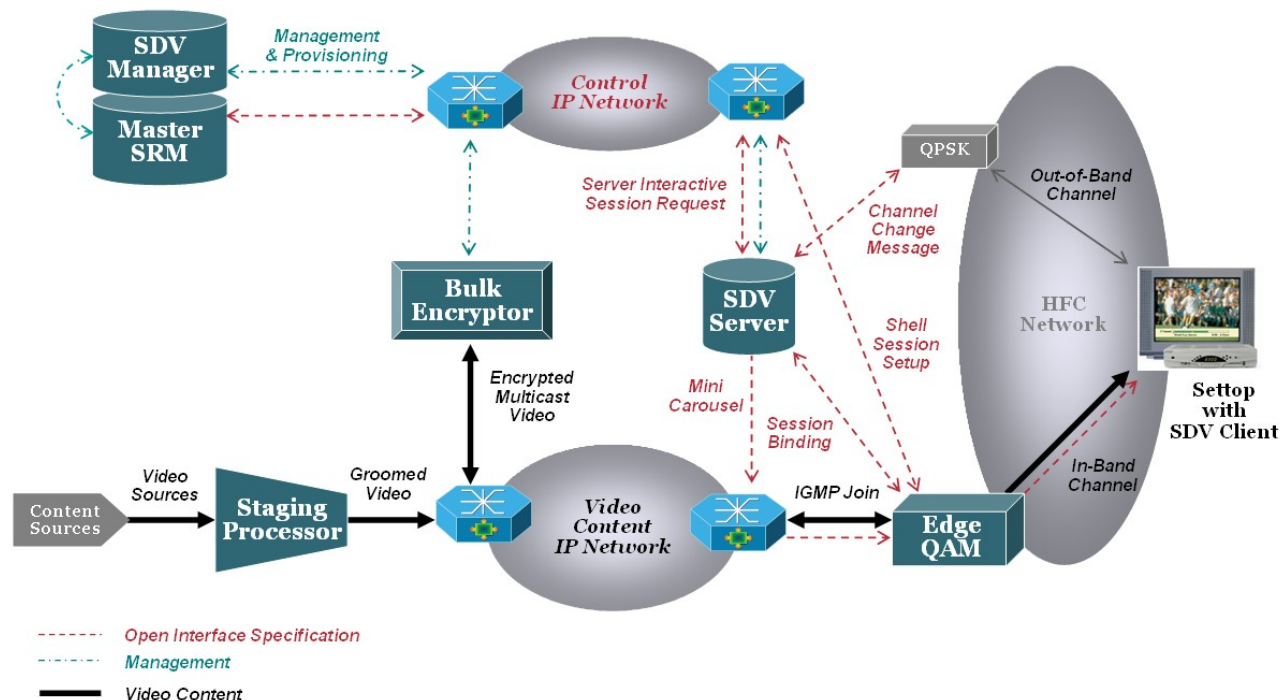
The SDV software has been designed for increased availability, providing N:1 redundancy with automated failover in the case of a failure or maintenance event. These servers may be centralized for operational efficiency or distributed for greater scalability. Each server is managed by the SDV Manager in the Scientific Atlanta Digital Network Control System (DNCS) which also acts as an application independent Master SRM for resource sharing among multiple applications. Single-step provisioning in the DNCS allows the operator to easily manage the entire SDV system.

Features

- SDV Server designed per open Phase II SDV specification
- Transparent Channel Change Performance
- Support for up to 15k set-tops
- Integration to DNCS
- Dynamic Stream Rerouting in case of QAM failure
- IGMP v3 support
- SSM-based content network redundancy
- 1:N Server Redundancy
- Mini Carousel support
- Dynamic Bandwidth Control for supporting VOD and SDV channel changes
- Intra-carrier QAM Sharing
- Integrated SDV client in Scientific Atlanta resident application (SARA)
- Intelligent program fill by priority

Model D9500 Switched Digital Video Server

SDV Architecture



Specifications

Description	Specification
Ports	• 2 x 10/100/1000bT Network Interfaces • 1 x PS2 Keyboard Port • 1 x VGA Video Port • 2 x USB 2.0
Powering	115 V AC
Weight	15 lbs. 6.8 kg
Dimensions	1 RU 19" W x 1.75" H x 19" D
Temperature Range	0°C - 50°C
Power Consumption	345 W

Ordering Information

Description	Part Number
D9500 SDV Server	4012574

Note: Interoperability with the S-A DNCS requires DNCS software release 4.2 or greater.