

C2250 SDDS SERVER

Data Sheet



OVERVIEW

Scilla C2250 SDDS Server is a DSM-CC carousel server that generates and broadcast ATSC Software Download Data Service (SDDS) carousels and proprietary transport streams in real-time.

MAIN FEATURES

- ◆ Generation of SDDS carousels with DII, DDB and DSI messages
- ◆ Scheduled playout of carousels
- ◆ Automatic generation of announcement info in DSI message
- ◆ PID grouping with independent bandwidth management
- ◆ Bandwidth scheduling

Data carousel generator

DSM-CC data carousels are generated from the files and configuration data in the built-in carousel repository. The generated two-layer data carousel stream is forwarded to the software based multiplexing engine.

SDDS carousel repository

SDDS carousels are retrieved from uploaded Transport Streams and stored in an SDDS carousel repository. The SDDS carousels are two layer DSM-CC data carousels that are used for delivering system software updates. Each carousel consists of groups that each contain one or more files. The carousel groups contain additional target information that provides the receivers with information to identify which specific manufacturer and hardware model each group of

files is targeted for.

PSIP Generator

The PSIP generator generates the required ATSC tables (PAT, PMT, VCT) as well as schedule descriptors and private information descriptors. DSI schedule descriptors are generated based on scheduling information and metadata in the SDDS carousel repository.

SUPPORTED FILE FORMATS

Transport Streams containing:

- ◆ SDDS carousels and signalling conformant with ATSC standard A/97

Firmware files:

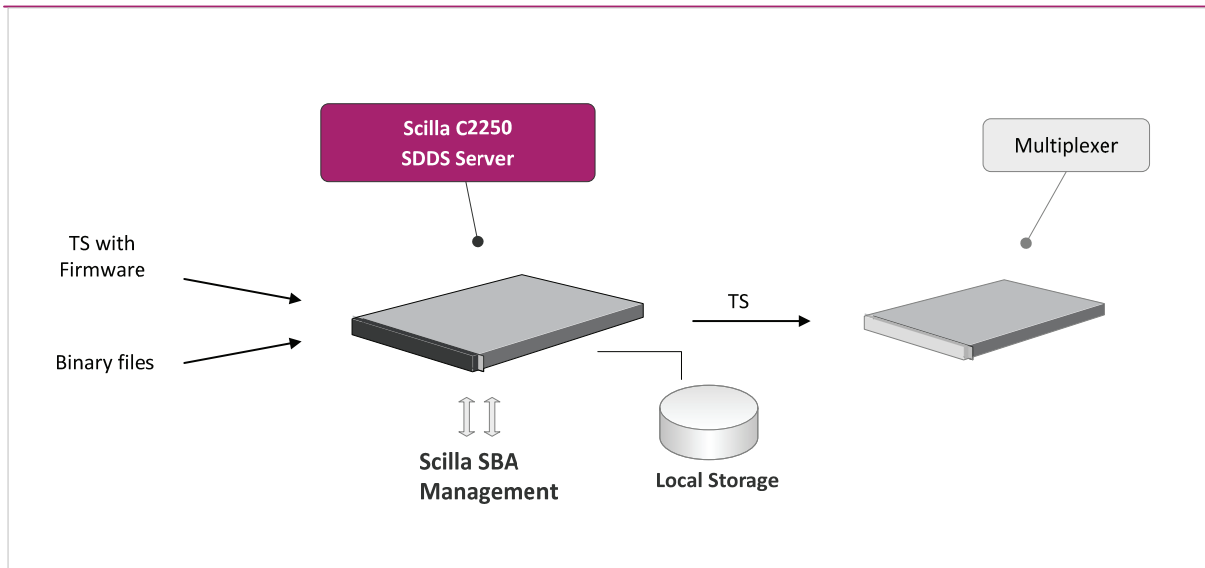
- ◆ Single firmware files
- ◆ Multipart firmware files with manifest data

STREAM OUTPUT

- ◆ Multiprogram Transport Stream (MPTS)
- ◆ ASI interface
- ◆ TS over IP (RTP or raw UDP)
- ◆ Unicast and multicast

MANAGEMENT

C2250 SDDS Server provides an SNMP Agent and secure Web-interface for managing and monitoring the stream processor. A Network Management System (NMS) can be used to manage and control the complete playout chain.



MIB files provide configuration information for controlling the stream processor.

Additionally user selected log information can be sent to as SNMP traps, to a Syslog service or as emails using SMTP.

OPERATING SYSTEM

Scilla carousel servers and stream processors can be installed on the following Linux distributions:

- ◆ Red Hat Enterprise Linux 5.x or 6.x
- ◆ CentOS 5.x or 6.x

HARDWARE REQUIREMENTS

Single unit server recommendations:

- ◆ HP ProLiant DL360 G6-G8
- ◆ IBM System x3550 M4

High-availability servers (NEBS certified):

- ◆ HP Carrier Grade Platform ProLiant DL360 G6

Please consult your local supplier for suitable support service and maintenance agreements ServicePack (IBM) and Care Packs (HP).

CONFORMANCE TO STANDARDS

ATSC Standards

- ◆ A/53E: "ATSC Digital Television Standard"
- ◆ A/65C: "Program and System Information Protocol for Terrestrial Broadcast and Cable"
- ◆ A/90: "Data Broadcast Standard"
- ◆ A/97: "Software Data Download Service"