INTERNATIONAL DATACASTING

Digital Cinema Software Client

Built for high-speed Digital Cinema Package (DCP) distribution via satellite and terrestrial IP networks, the Digital Cinema Software Client can be installed on COTS hardware platforms designed to meet the specific needs of a cinema network.

Applications

- Digital cinema
- DCP storage and distribution
- Private networks

Features

- Customer supplied server platform and hard disk storage
- Support for Digital Cinema Content Distribution System
- Datacast XD included (Broadcast)
- Datacloud XD optional (DCP delivery over terrestrial IP networks)
- Net Manager addressable
- Web browser interface
- Support for TBS 6982/6983 series satellite cards
- Support for up to 4 NIC ports
- Widest LMS vendor compatibility

Designed to meet the demands of digital cinema, the Digital Cinema Software Client maintains the highest possible throughput for DCP movie reception and transfer to the theatre management system.

With support for a wide variety of Commercial Off-The-Shelf (COTS) server platforms, the client will support large RAID hard disk arrays for maximum DCP storage. The ideal store-and-forward client for DCP distribution, it also features support for live alternative content distribution in the theatre via an IP network.

With 100% feature compatibility (where applicable) to the widely deployed SuperFlex Pro Video and SuperFlex Pro Cinema Cache Server receivers, COTS servers running the client can co-exist on a network including legacy IDC cinema receivers. The client provides multiple integration options for automated delivery of DCP content to any theatre library management system (LMS) or digital cinema server.

A Complete Digital Cinema Content Distribution System

The Digital Cinema Software Client is part of IDC's Digital Cinema Content Distribution System which provides an end-to-end solution for DCP ingest, transmission and publishing.

Datacast XD Content Delivery

The Digital Cinema Software Client includes IDC's Datacast XD for high-speed guaranteed file delivery including application FEC and file reconstruction features built-in.

DCP Delivery over Terrestrial IP Networks

The client solution includes optional high-speed terrestrial DCP delivery over IP networks. Datacloud XD, a proprietary high-speed IP protocol is used to deliver one or more DCP packages simultaneously to multiple cinemas.

Flexible Storage

By installing on COTS servers, customers can choose the amount of DCP storage that's right for their application.

Wide Variety of Inputs

The dual-tuner TBS 6982/6983 satellite cards supported by the client are capable of up to 45 Msym/s operation for the maximum DCP transmission speed.

Flexible Configurations

The Digital Cinema Software Client can be deployed in either a one-way, two-way or hybrid satellite/terrestrial network.

TECHNICAL SPECIFICATIONS—Digital Cinema Software Client

Supported Satellite Card—TBS6982/6983 DVB-S2 Dual Tuner PCIe Card

Number of Inputs	2
Frequency Range	950 to 2150 MHz
Maximum Input Level	-69 to 23 dBm
Connector	Type-F, female
Impedance	75 ohms, unbalanced
DVB-S MODE	
Symbol Rate	1 to 45 Ms/s
Modulation	QPSK
FEC	1/2, 2/3, 3/4, 5/6, 7/8
Alpha Factor	0.35
DVB-S2 MODE	
Symbol Rate	1 to 45 Ms/s
Modulation	QPSK/8PSK Normal blocks 64,800 bits only
Alpha Factor	0.20,0.25, 0.35

Server Recommended Configuration

CPU	Intel Xeon E3 2.2GHz (with at least 2 cores) or higher
RAM	4GB of DDR3 RAM or higher
Disk	High performance hard-drive SATA 3 GB/s or higher performance
Satellite Input	Supported TBS Cards

STATUS AND CONTROL INTERFACES

- Web browser based status and control utilizes Ethernet NET connector, plus SNMP
- Password protected, allows for local setting of configuration parameters

NETWORK AND TRANSPORT

- Fully addressable and controllable via Net Manager
- MPEG-2 Transport (ISO/IEC 13818) per ETSI EN 301 192
- MPE and ULE decapsulation

OPERATING SYSTEM SUPPORT

- Debian 7.8 (64-bit) - native and/or LXC Container

DCP RECEIVE PERFORMANCE

Receives from Distribution Manager via satellite up to 60 Mb/s*
Receives DCP over terrestrial IP networks at 10 Mb/s or greater, dependent on IP network bandwidth, congestion and latency*

Under IDC Lab Conditions

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www.datacast.com

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