ICAREUS PLAYOUT PC100 COMPACT

DATA SHEET

A COMPACT PLAYOUT SYSTEM FOR DELIVERY OF MHP SERVICES OVER DVB NETWORKS

Icareus Playout PC100 Compact is the perfect solution for broadcasters, system integrators, academic institutions and practically anybody who needs a complete broadcasting solution for MHP/DVB dataservice testing and development.

PC100 provides all the basic functionality needed for managing and broadcasting MHP-based content. It consists of an object carousel generator, a PSI/SI generator, a scheduler and a transport stream multiplexer. Pre-recorded TS/PS audio/video streams are used as a standard option. Additionally, an optional real-time video encoder can be used for broadcasting live content.

PC100 is a software solution using open standards. The system runs on any standard PC, and the only additional hardware requirements are an ASI output card, which is included in the package, and a modulator. (DVB-T, DVB-S, DVB-C)

OBJECT CAROUSEL GENERATION

PC100 features an MPEG-2 DSM-CC (ISO13818-6) Object Carousel generator. Its main features are:
- Real-time generation of object carousels
- Support for dynamic updates of carousel data.
- Support for both pre-scheduled and immediate (do-it-now) stream events
- Advanced algorithm for maximum throughput
- Definable application and file weighting and prioritisation

PSI/SI GENERATION

PC100 generates all the SI data necessary for generating complete DVB services:
- PMT and PAT
- NIT, SDT and EIT (Current programme, next programme and schedule information)
- Automatic generation of all mandatory SI descriptors

SCHEDULER

- Scheduler play lists reside on integrated SQL server
- 3rd Party reporting tools available
- Scheduled tasks can be executed directly with commands Start and Stop

BUILT-IN TRANSPORT STREAM MULTIPLEXER

- Multiplexes any number of Transport Streams, PES streams, private data and sections
- Multiplexes up to 90 Mbps on standard Intel-based PC hardware
- Selectable Transport Stream packet size: 188 or 204 bytes

INPUT AND OUTPUT

- Carousel data updated through FTP or Java API
- Stream input from ASI-interface, file system or optional video encoder PC card
- Outputs to DVB ASI-interface (CENELEC EN50083-9) or IP-Multicast (RFC2250)

MANAGEMENT

PC100 is managed through Playout Management Console (PMC). Playout Management Console is a java application that provides a GUI application for controlling the server. Additionally Playout Management Console offers an extensive Java API that can be used to control the server from third-party applications.
- Java-based GUI. Runs on all common operating systems
- Service and carousel management through easy Drag and Drop commands
- Real-time monitoring of services running

SNMP MIBs are provided for MIB-II (RFC 1213), host resources (RFC 2790) and LM sensors.

OPERATING SYSTEM

Icareus Playout PC100 Compact comes pre-installed on a rack-mount server and runs out of the box. A bootable CD-ROM automatically installs Head-End Linux, necessary drivers and Playout software.
- Head-End Linux 2.0
- Kernel version 2.6 (both UP and SMP)
- Installation from CD-ROM

HARDWARE

The 2U casing is provided with 360 W redundant power supply and seven quick-swap fans. Weight 12 Kg.
The 4U casing is provided with 600 W triple redundant power supply and a hot-swappable internal fan wall. Operating System hard disk is mirrored (RAID 0). Weight 18 Kg.

ICAREUS ITV SUITE INTEROPERABILITY

Icareus Playout PC100 Compact can be seamlessly integrated with the Icareus iTV Suite MHP authoring tool. iTV Suite applications can be directly deployed to the set-top box for rapid iTV application development.

SUPPORTED STANDARDS AND SPECIFICATIONS

- ETSI EN 300 468 v1.7.1

Specification for Service Information (SI) in DVB systems
- ETSI TR 101 211 v1.7.1
Guidelines on implementation and usage of Service Information (SI)
- ETSI EN 301 192 v1.4.1
Specification for data broadcasting
- ETSI TR 101 202 v1.2.1
Specification for data broadcasting; Guidelines for the use of EN 301 192
- ETSI TS 102 154 v1.2.1
Implementation Guidelines for the use of MPEG-2 Systems, Video and Audio in Contribution Applications
- ETSI ES 201 812 v1.1.2
Multimedia Home Platform (MHP)
- ETSI TS 102 819 v1.3.1
Globally Executable MHP (GEM), including a packaged media target
- EN 50083-9 v3 (CENELEC)
Interfaces for CATV/SMATV Headends and similar Professional Equipment

ORDERING OPTIONS

Hardware options:
- 2U 19" rack mount casing
- 4U 19" rack mount casing
- Rack-mount slides
- Number of hard disks for media storage

AVAILABILITY

All sale enquiries should be directed to Icareus Sales Team:
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CONTACT INFORMATION

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