



Load Balancing System 4Balancer

Load Balancer for On Demand Applications

The one constant for operators delivering content is the need to provide more. Consumers want more choices, accessed via more networks and viewed on a steadily increasing variety of screens.

Envivio 4Balancer, an essential component of Envivio On Demand Solutions, helps keep control over this complexity, automatically, by optimizing the allocation of transcoding and processing resources in 4Caster™ C4 for file to file transcoding. 4Balancer is the key to transforming the maximum amount of content in the minimal time and achieving the highest quality of experience for subscribers.

Optimize Speed and Workflow

A single 4Balancer can distribute processing jobs across a pool of up to 50 4Caster C4 encoders dedicated to On Demand file transcoding. As video is being ingested, jobs are created using either a watch folder function or through the use of an external content management system (CMS). 4Balancer assigns priorities to schedule the jobs based on predetermined strategies and awareness of current workflow conditions.

Designed for Three Screen Service

Envivio 4Balancer works with the Envivio 4Caster C4 encoder system to manage concurrent encoding for all multiple screens: TV, PC, tablets and mobile phones. Content can be encoded for the different screens with different encoding settings per screen. 4Balancer stores preset configurations which are used to dynamically configure the encoder for each encoding task.

High Availability

Quality of Experience is the key to subscriber satisfaction and 4Balancer features a number of mechanisms to ensure high availability. 4Balancer automatically re-assigns jobs in the event of interruption on the encoder. Built-in 1+1 redundancy maintains the current job list even in the event of significant disruption to the 4Balancer server. 4Balancer itself features redundant network interfaces and power supplies. An integrated comprehensive reporting interface supports job management and simplifies troubleshooting. 4Balancer interfaces with Envivio 4Manager™ for integrated control and management within the video headend as a whole.



Product Highlights

- Load Balancer for Envivio On Demand Solutions
- Designed to interface with 4Caster C4 On Demand and third parties Content Management Systems (CMS)
- Automatically distribute encoding jobs to a pool of 4Caster C4
- Watch folder capabilities for automated job generation
- High-availability equipment with 1+1 redundancy and fail-over management

Features

- Manage up to 50 4Caster C4 with file to file encoding option
- Telco-grade equipment with built-in 1+1 redundancy
- Automated job list population using watch folder
- Continuous reporting of jobs status by SNMP, Syslog and emails

Applications

- Catch-up TV
- Network PVR transcoding
- Video On Demand



External interfaces

10/100/1000 Base-T application ports (4 configurable ports)

Interface to 4Caster C4

Interface with 4Caster C4 on demand: SOAP/XML and HTTP

Up to 50 managed devices

Interface to content management system (CMS)

SOAP/XML API to job provisioning system

Encoding Preset Management

Encoding preset format: XML

Load, remove preset

Encoding Job Management

Encoding Job distribution

FIFO encoding jobs distribution to encoder pool

Job history

Watch Folder

Encoding job associated per watch folder

Watch folder access: CIFS

Reporting

Encoding job status display on web based interface

Encoding job status notifications by SNMP, syslog or email (SMTP) to multiple destinations

Encoding job history report with configurable history period in XML format

Monitor and Control

Local

Front-panel LCD control interface

Remote

10/100/1000 Base-T Monitor and Control ports: 2 (primary and spare)

Control and System protocols: SOAP, HTTP, NTP

Web-based interface for monitoring and control

Soap interface to network management system

Alarm protocols: SNMP v2

Firmware remotely upgradeable

Application Data Protection

External encoding job list and status storage: CIFS

Save/Restore configuration

Physical and Power

Dimensions

Width: 431 mm (16.9")

Height: 44mm (1.7")

Depth: 654 mm (25.8")

Weight: 12 kg (26 lb)

Power

Input: 100-240 VAC auto-ranging

Consumption: 200 W maximum

Supplies: dual load-balancing hot-swappable power supplies

Environmental

Operating temperature range: 0 to 35° C (32 to 95° F)

Non-operating temperature range: -40 to 70° C (-40 to 158° F)

Non-operating relative humidity: 95% at 30° C (86° F) non-condensing

Agency Certifications

- FCC Class A, CE, cTUVus, CB, VCCI
- RoHS 5-compliant, WEEE-compliant

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