

SeaChange® Flash Media Streamer 2500i

High Performance Solid State Cache / CDN Edge Internet Video Streamer

SeaChange® International continues to deliver industry-leading flash memory-based streamers designed to drastically reduce the operational costs for service providers deploying CDN environments.

SeaChange's FMS2500i server offers high performance Apple HTTP Live Streaming, Adobe HTTP Dynamic Streaming, and Microsoft Smoothing Streaming video delivery to personal and mobile devices such as iPhones and iPads. Its reactive solid state edge cache is optimized for scaling video distribution to thousands of end users. In addition, SeaChange's EDN architecture allows FMS 2500i edge servers to load balance and scale the distribution of internet video by cooperating in a loosely coupled distributed system that minimizes disruptions from faults and increase edge caching efficiency.

As part of the SeaChange Edge Distribution Network (EDN) product line, the SeaChange FMS 2500i is designed to eliminate spinning hard disk drives from the edge of an operator's CDN infrastructure. The Flash Media Streamer is the first in the industry that completely decouples streaming from disk storage, enabling a new level of configuration flexibility, reliability, and scalability for operators moving to a centralized CDN architecture.

BENEFITS

Reduced operational costs. For operators, SeaChange reduces the OPEX and CAPEX associated with traditional disk failures. Disk replacement and rebuilds, together with the high power consumption, thermal dissipation, space requirement, and noise of traditional disks, make flash technology an easy choice. Flash memory has no moving parts; is 100 times more reliable than spinning disks; and requires only a 10th of the power it takes to operate regular drives.



Key Features

- Apple HTTP Live Streaming
- Integration with Adrenalin™ backoffice
- Reactive fragment caching from origin server
- 8000 @ 2Mbps HTTP sessions
- IPV4 and IPV6 network support

Independent streaming and storage. Because of its high cost, limited capacity, and volatility, DRAM (Dynamic Random Access Memory) does not eliminate hard disks from video servers. With 100 times the capacity and using flash memory, the FMS 2500i completely decouples streaming from disk storage. Operators have the freedom to co-locate flash streaming servers and disk storage or distribute them at geographically dispersed locations.

High density. The FMS 2500i comes in a compact 2RU package with a fragment cache capacity of 3.84TB. It is capable of 16.25 Gb/s and 3.25 Gb/s HTTP fragment for streaming and cache fill ingest respectively.

Integrated solution. The FMS 2500i is fully compatible with SeaChange's fourth generation web-centric video backoffice for multiscreen support - Adrenalin™.

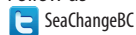
Internet Streaming Support

- Apple HTTP Live Streaming (HLS)
- Adobe HTTP Dynamic Streaming (HDS)
- Progressive Download
- Microsoft Smooth Streaming

Product Specification

- 2RU rack-mountable chassis
- 2 x 10GigE streaming port
- 24 x 160GB flash drives per server
- Power:
 - Dual 1+1 redundant PSUs
 - 100/240 VAC @ 60/50 Hz
 - Startup power draw 480W
 - Operating power draw 560W
- Operating temperature: 10°C to 35°C (50°F to 95°F)
- Dimensions: 3.5"H x 17.2"W x 24.8"D
- Regulatory Approvals
 - FCC CFR 47 Part 15 A
 - This device complies with Part 15 of the FCC rules. Operation is subject to the following conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.
 - EN55022
 - Conducted emissions. European Union EMC Low Voltage Directive.
 - AS/NZ3548
 - In accordance with Australia/New Zealand Conducted emissions requirements for Class A, Information Technology Equipment (I.T.E.).
 - VCCI
 - In accordance with Japanese limits and margins of compliance to VCCI requirements.
 - CE European Low Voltage Directives
 - EN55024:1998 EN61000-4-2:1995 Immunity, ESD
 - EN55024:1998 EN61000-4-3:1995 Immunity, Radiated
 - EN55024:1998 EN61000-4-4:1995 Immunity, EFT
 - EN55024:1998 EN61000-4-5:1995 Immunity, Surge, ±2KV Common Mode, ±1KV Diff.
 - EN55024:1998 EN61000-4-6:1995 Immunity, Conducted RF
 - EN55024:1998 EN61000-4-8:1995 Immunity, Power Frequency Magnetic Field
 - EN55024:1998 EN61000-4-11:1995 Immunity, Voltage Variations
 - EN61000-3-2:2000 Harmonic Current Emissions
 - EN61000-3-3:2000 Voltage Fluctuations and Flicker
 - CB Scheme
 - IEC 60950-1, Information Technology Equipment – Safety. Part 1, General Requirements Editions 1 & 2.
 - Safety
 - ETL Intertek in accordance with safety standard OSHA 60950-1 Information Technology Equipment.
 - 60950-1, Information Technology Equipment – Safety. Part 1, General Requirements Edition 1.
 - CSA C22.2 No. 60950-1, Information Technology Equipment – Safety. Part 1, General Requirements Edition 1.
 - IEC 60950-1, Information Technology Equipment – Safety. Part 1, General Requirements Editions 1 & 2.

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