Conversant
Connecting Digital World

High Performance Content Storage and Management

Swift File Appliance (SwiftFA) provides a distributed content storage and management facility to Conversant's CDN offering. SwiftFA works in conjunction with our Swift Delivery Appliance (SwiftDA), providing distributed content storage and management for convenient and performant service of assets in high volumes.

SwiftFA offering consists of the FA Core and the FA Extension module, which provides extra storage while maintaining the high-performance and integration benefits of the Core.

SwiftFA are designed to store valuable digital content such as files and videos securely and efficiently; with drive-level redundancy and the option of node-level redundancy, the SwiftFA solution offers peace of mind and high uptime.

The SwiftFA is equipped with a configuration which allows any two storage drives to fail, without experiencing an outage, and with hot spares, to extend resilience until drives can be physically replaced. This resilience is included in the FA Extensions as well, allowing huge arrays with high uptime, without a large management overhead.

Features

SwiftFA features include:

> **Multiple Content Ingest mechanisms:** With support for FTP, FTPS, SFTP and web portal upload, network providers can quickly integrate the File appliance's capabilities into their (and their customer's) publishing systems.

> **Service of Content over multiple mechanisms:** With support for HTTP and the latest in HTTPS delivery, the FA gives flexibility in how your content is served to your customers.

> **Highly resilient storage:** Conversant has built a highly resilient pair of appliances, each with a highly resilient RAID configuration, with hot spares, meaning even multiple disk failures will be handled seamlessly.

> **Low resource footprint:** With a small hardware footprint of just 2U for each, while providing up to 36TB of storage, these appliances provide a high storage density at an affordable price. The Extension modules offer 40TB of redundant storage in a space and cost efficient 2U form factor.

> **High performance:** With years of experience in CDN storage systems, our solution is optimised to deliver a CDN-typical traffic profile with leading performance, unlike many managed-storage solutions.

BENEFITS

REVENUE INCREASE

SwiftFA enables Network Service Providers to create new revenue streams by providing content storage services for their customers. (In pipeline)

OPEX SAVINGS

SwiftFA provides a very efficient way to deliver multimedia content, reducing the amount of data that needs to be carried across networks, resulting in savings such as on international transit.

CAPEX SAVINGS

Compared to other solutions in the market, Conversant's licensed CDN offering (comprising of SwiftDA and SwiftFA) is a very cost effective way of building a CDN capability.

> **Scalable deployments:** While the minimum deployment requires a pair of appliances, we can scale easily for added performance and storage. From a single Extension module, to multiple Cores, optionally across several physical locations, each with up to 8 Extensions[1], the FA Core 30100 system is built to massively scale.

> **Seamless integration with the global SwiftFederation network:** With integration with our web portal and our responsive operations team, the SwiftFA will give a great, integrated experience.

Technical Specifications

Model	SwiftFA – 3 Series		SwiftFA – 5 Series	
	Professional		Business	
	FA Core 30100	FA Extension 310[1]	FA Core 50100	FA Extension 510[2]
Processor	Dual Socket Intel® Xeon® 12 Core	NA	Dual Socket Intel® Xeon® 12 Core	Dual Socket Intel® Xeon® 8 Core
Processor Cores	24	NA	24	16
Memory	128 GB	NA	128 GB	128 GB
Redundant System Drives	2x 600GB SAS	NA	2x 600GB SAS	2x Operating System
Dedicated Cache Storage Drives (Hot Plug)	24x 1.8TB SAS HDD	24x 2TB NL-SAS HDD	NA	35x 3TB SATA HDD 1x 1.6TB SSD
Embedded NIC Options	2 x 1000BASE-T, 2 x 10GBASE-SR/LR SFP+[3]	NA	2 x 1000BASE-T, 2 x 10GBASE-SR/LR SFP+[3]	2 x 1000BASE-T, 2 x 10GBASE-SR/LR SFP+[3]
Enclosure Form Factor	2U	2U	2U	4U
Dimensions (L x W x H)	684.0mm x 444.0mm x 87.3mm	541.0mm x 444.0mm x 87.3mm	684.0mm x 444.0mm x 87.3mm	724.0mm x 480.0mm x 177.0mm
Weight	35.6 kg (78.48 lbs)	24.2 kg (53.35 lbs)	35.6 kg (78.48 lbs)	54.5 kg (120 lbs)
Power Supply	AC: Dual Hot-Plug, Redundant 750W DC: Dual Hot-Plug, Redundant 1100W	AC: Dual Hot-Plug, Redundant	AC: Dual Hot-Plug, Redundant 750W DC: Dual Hot-Plug, Redundant 1100W	AC: Dual Hot-Plug, Redundant 1100W
Input Voltage and Frequency Ranges	AC: 100 – 240VAC, 50/60Hz DC: -(48-60) VDC	AC: 100-220VAC, 50/60Hz DC: 48 VDC	AC: 100 – 240VAC, 50/60Hz DC: -(48-60) VDC	AC: 100-220VAC, 50/60Hz
Power Consumption	455W (Typical)	1080W (Max)	455W (Typical)	630W (Typical)
Operating Temperature	10°C-35°C (50°F to 95°F)	10°C-35°C (50°F to 95°F)	10°C-35°C (50°F to 95°F)	10°C-35°C (50°F to 95°F)
Relative Humidity	Operating: 20% to 80% Relative Humidity, Non-Condensing			Operating: 5% to 95% Relative Humidity, Non-Condensing

[1] Performance is dependent on the number of Extensions per Core.

[2] FA Extension 510 requires separate InfiniBand Switch that is sold separately. FA Extension 510 has to be scaled in 3s.

[3] SFP+ transceivers are sold separately.

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Conversant Solutions (www.conversant.tv) helps content publishers and network service providers profit from delivering a better Internet multimedia experience to their customers.