



Production Nodes

Scalable hardware platforms qualified to host and distribute FLOW roles and services

The family of FLOW Production Nodes come pre-configured and certified to power FLOW Media Asset Management systems. They allow the FLOW system to scale out and up, offering a wide range of processing power within each node, as well as the ability to add additional nodes for greater parallel processing capability. FLOW Production Nodes are powered by the latest generation of HPE hardware.

FLOW Admin

The FLOW Admin role handles user authentication and permissions, hosts the media asset database, and provides streaming of all proxy content within FLOW, enabling users to easily tag, browse, organize and edit proxy-based content. The server running the FLOW Admin role also typically runs several other associated roles including FLOW Scan which can index content located across all storage buckets, and FLOW Proxy worker for encoding of low-bitrate proxies of all video content.

FLOW Proxy Worker

The FLOW Proxy Worker role handles the creation of low-bitrate h.264 proxy files from original source content for streaming within FLOW applications. FLOW Proxy worker slots can be increased within one machine depending on the CPU resources of the machine for greater parallel proxy creation. In addition, multiple servers can run the FLOW Proxy role for even greater parallel proxy making capability, and the proxy job queue is distributed amongst all available slots.

AirFLOW

The AirFLOW role provides secure and remote HTML5 based browser and/or NLE integration access to proxy, high res, and Flow metadata. It

also provides upload and download services. It can be configured as a gateway to securely bridge the internal FLOW network communications with a port opened up to WAN or public internet.

FLOW Automation

FLOW Automation adds an additional layer of intelligence to your FLOW media management system. Automation can orchestrate workflows and remove human repetitive tasks like copying, moving, deleting, transcoding and organizing projects or media spaces. Simple or complex processes can be triggered at regular times of day or week or based on user actions.

FLOW Automation can leverage available FLOW Proxy or File-Based Ingest capabilities across all FLOW servers at your site.

FLOW Ingest - File Based

The FLOW Ingest role provides the core services necessary to carry out both File-Based and Baseband SDI Ingest (SDI ingest requires dedicated FLOW Ingest server).

FLOW File Ingest supports the input of a wide variety of file types and/or File-Based camera formats, allowing the user to transcode or rewrap files into different output formats depending on the workflow and editing requirements.

All popular industry standard codecs, resolutions and frame rates are supported for both input and output formats.

Depending on the available hardware resources as well as the resolution and input/output formats, FLOW Production Node hardware can perform multiple File-Ingest actions simultaneously.

Models

FLOW Production nodes are offered in three powerful configurations, each adding additional CPU power and core count for incremental FLOW process enhancement. Leverage meaningful performance gains in Proxy creation, File-Based Ingest & Automation tasks by starting from an appropriate base expansion unit comprising any one of the three models. From there, scale-out further by adding extra units according to your growing performance needs and budgetary limits.

Technical Specifications

Server Models	Hardware Specifications			Typical Applications
FLOW Production Node Starter FL-PROD-STARTER	<ul style="list-style-type: none"> › Customized HPE DL20 w/ EditShare OS › Intel 6 core CPU (12 hyperthread cores) › 64 GB RAM › 10 G & 25 G NIC Options Available › 2 x high performance mirrored (RAID 1) SSD OS drives › 1+1 hot-swappable power supplies 			<ul style="list-style-type: none"> › AirFLOW gateway › Lighter proxy/FBI applications
FLOW Production Node Pro FL-PROD-PRO	<ul style="list-style-type: none"> › Customized HPE DL360 w/ EditShare OS › Intel 8 core CPU (16 hyperthread cores) › 64 GB RAM › Multiple NIC Options Available › 2 x high performance mirrored (RAID 1) SSD OS drives › 1+1 hot-swappable power supplies 			<ul style="list-style-type: none"> › FLOW Admin › Mid-range proxy/FBI applications › FLOW Automation
FLOW Production Node Elite FL-PROD-ELITE	<ul style="list-style-type: none"> › Customized HPE DL380 w/ EditShare OS › Dual Intel 20 core CPU (80 hyperthread cores) › 128 GB RAM › Multiple NIC Options Available › 2 x high performance mirrored (RAID 1) SSD OS drives › 1+1 hot-swappable power supplies 			<ul style="list-style-type: none"> › FLOW Admin › Most demanding large parallel proxy/FBI/transcode needs, UHD workflows › FLOW Automation
	Starter (DL20)	Pro (DL360)	Elite (DL380)	
Operating Temperature Range	10°- 35°C (50° - 95°F)	10°- 35°C (50° - 95°F)	10°- 35°C (50° - 95°F)	
Non-Operating Temperature Range	-30°- 60°C (-22° - 140°F)	-30°- 60°C (-22° - 140°F)	-30°- 60°C (-22° - 140°F)	
Humidity Range	8-90% non-condensing	8-90% non-condensing	8-90% non-condensing	
Non-Operating Humidity Range	5-95% non-condensing	5-95% non-condensing	5-95% non-condensing	
Dimensions	4.32 x 43.46 x 38.22 cm 1.70 x 17.11 x 15.05 in	4.29 x 43.46 x 74.98 cm 1.69 x 17.11 x 29.5 in	8.73 x 44.54 x 73.02 x cm 3.44 x 17.54 x 28.75 in	
Shipping Dimensions	24.13 x 60.02 x 99.06 cm 9.50 x 23.63 x 39.00 in	24.13 x 60.02 x 99.06 cm 9.50 x 23.63 x 39.00 in	27.00 x 60.02 x 96.85 cm 10.62 x 23.63 x 38.12in	
Weight	7.9 kg (17.41 lbs)	13.77 kg (30.36 lbs)	24.5 kg (54 lbs)	