## **Supply Chain**

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Step	High-Level Activity	Product Category	Product Detail
Create	Acquisition	Cameras	Digital cinema cameras
Create	Acquisition	Cameras	Film cameras
Create	Acquisition	Cameras	Broadcast system cameras
Create	Acquisition	Cameras	Super slow-motion system cameras
Create	Acquisition	Cameras	Shoulder ENG/EFP cameras
Create	Acquisition	Cameras	SLR video cameras
Create	Acquisition	Cameras	Professional camcorders
Create	Acquisition	Cameras	PTZ cameras
Create	Acquisition	Cameras	Specialist, POV, action cameras
	•	Cameras	VR and 180/360 cameras
Create	Acquisition		·
Create	Acquisition	Camera Accessories	Camera lenses
Create	Acquisition	Camera Accessories	Camera lens accessories
Create	Acquisition	Camera Accessories	Camera support and grip
Create	Acquisition	Camera Accessories	Camera pedestals
Create	Acquisition	Camera Accessories	Camera power and batteries
Create	Acquisition	Camera Accessories	Bags, cases, protection
Create	Acquisition	Camera Accessories	Wireless camera systems
Create	Acquisition	Camera Accessories	Prompters
		Camera Accessories	Camera drones
Create	Acquisition		
Create	Acquisition	Audio Acquisition	Microphones and microphone systems
Create	Acquisition	Audio Acquisition	Wireless radio microphone systems
Create	Acquisition	Audio Acquisition	Portable recorders and location mixers
Create	Acquisition	Audio Acquisition	Audio acquisition accessories
Create	Acquisition	Lighting	On-camera lighting
Create	Acquisition	Lighting	Lighting systems
Create	Acquisition	Social/UGC	Content/data acquisition from public sources
Create	requisition		contently data dequisition from public sources
Produce	Real-Time Production	Real-Time Production Graphics	Production graphics and CG
Produce	Real-Time Production	Real-Time Production Graphics	Virtual sets and chromakey
Produce	Real-Time Production	Real-Time Production Graphics	
Produce	Real-Time Production	Video Production	Production switchers
Produce	Real-Time Production	Video Production	Real-time production video servers
Produce	Real-Time Production	Video Production	Real-time production replay and slow-motion servers
Produce	Real-Time Production	Video Production	Production automation systems
Produce	Real-Time Production	Video Production	Newsroom production management and automation systems
Produce	Real-Time Production	Audio Automation	Audio automation
Produce	Real-Time Production	Audio Production	Audio mixers and consoles - radio
Produce	Real-Time Production	Audio Production	Audio mixers and consoles - music
Produce	Real-Time Production	Audio Production	Audio mixers and consoles - television production
Produce	Real-Time Production	Production Services	Studio and stage facilities
Produce	Real-Time Production	Production Services	Outside broadcast and mobile facilities
Produce	Manage Production	Production Software	Project, resource and facilities management software
Produce	Manage Production	Production Software	Pre-Production development, scripting and screenwriting software
Produce	Manage Production	Production Software	Timecode, shot-logging, metadata capture, transcription and dailies software
Produce	Manage Production	Production Software	Newsroom computer systems (NRCS)
	J		
Produce	Manage Production	Post-Production Software	Production asset management (PAM)
Produce	Manage Production	Post-Production Software	Collaboration, review and approval
Produce	Manage Production	Post-Production Software	Playlist/package mastering software
Produce	Post-Production	Film Transfer	Telecine and film scanners
Produce	Post-Production	Ingest	Post-production ingest
Produce	Post-Production	Editing and Finishing	Non-linear editing
Produce	Post-Production	Editing and Finishing	Color correction and grading
Produce	Post-Production	Editing and Finishing	Video enhancement and restoration tools
Produce	Post-Production	Editing and Finishing	Processing incl. hardware acceleration and I/O cards
Produce	Post-Production	VFX & Graphics	Compositing, graphics/CGI and animation tools
Produce	Post-Production	VFX & Graphics	Special Effects and VFX plug-ins
Produce	Post-Production	VFX & Graphics	Facial animation tools
Produce	Post-Production	Audio Post-Production	Audio mixers and consoles - post production
Produce	Post-Production	Audio Post-Production	Digital audio workstations, editing, effects and processing
Produce	Post-Production	Post-Production Services	Post-production services
Produce	Post-Production	Post-Production Services	Creative services

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		Content & Workflow	
Manage	Manage & Orchestrate	Management	Media asset management (MAM)
D.4	Manager C. Ough actuate	Content & Workflow	Construction
Manage	Manage & Orchestrate	Management Content & Workflow	Supply chain management and orchestration
Manago	Managa & Orchastrata	Management	Contant data analysis
Manage	Manage & Orchestrate	Content & Workflow	Content data analysis
Manage	Manage & Orchestrate	Management	Operational data analysis
ivialiage	ivialiage & Orchestrate	Content & Workflow	Operational data analysis
Manage	Manage & Orchestrate	Management	Archive and preservation management
Wanage	Ivialiage & Orchestrate	Content & Workflow	Archive and preservation management
Manage	Manage & Orchestrate	Management	Storage management
Wanage	Withhale & Orenestrate	Content & Workflow	Storage management
Manage	Manage & Orchestrate	Management	End-to-end supply chain solutions
		Data & Metadata	
Manage	Manage & Orchestrate	Management	(Meta)data aggregation and management
_	_	Data & Metadata	
Manage	Manage & Orchestrate	Management	Consumer-facing data management
Manage	Prepare	Content Preparation	File-based technical QC
Manage	Prepare	Content Preparation	Compliance control
Manage	Prepare	Content Preparation	Automated metadata extraction
Manage	Prepare	Content Preparation	Transcode and normalization
Manage	Prepare	Content Preparation	Content and metadata packaging
Manage	Prepare	Content Preparation	Access services and localization tools
Manage	Prepare	Content Services	Content management and preparation services
Manage	Prepare	Content Services	Access services and localization service providers
Publish	Linear Playout	Linear Playout Systems	Playout automation
Publish	Linear Playout	Linear Playout Systems	Integrated playout (channel-in-a-box)
Publish	Linear Playout	Linear Playout Systems	Channel branding graphics and promotion systems
Publish	Linear Playout	Linear Playout Systems	Master control switchers
Publish	Linear Playout	Linear Playout Systems	Subtitling/closed captioning insertion
Publish	Linear Playout	Linear Playout Systems	Compliance recording
Publish	Linear Playout	Linear Playout Systems	Edge playout/insertion devices
Publish	Linear Playout	Linear Playout Services	Managed playout services
Publish	Nam Lineau Bulalialaina	Name Lineary Buddiships Contagns	C-L-L-/IDTV/VOD
Publish	Non-Linear Publishing	Non-Linear Publishing Systems	Cable/IPTV VOD servers and systems
Publish	Non-Linear Publishing	Non Linear Bublishing Systems	Internet/OTT servers and systems
PUDIISII	Non-Linear Publishing	Non-Linear Publishing Systems	internet/OTT servers and systems
Publish	Non-Linear Publishing	Non-Linear Publishing Services	OTT/OVP managed service platforms
1 4511311	TVOIT EINEUT T UDITSTITTE	Content Protection &	OTT/OVE managed service platforms
Publish	Content Protection	Encryption	Watermarking and fingerprinting systems
		Content Protection &	Tracerna and and angerpricing officerno
Publish	Content Protection	Encryption	CAS, encryption, DRM
Publish	Venue Exhibition	Real-Time Playback Servers	Digital cinema replay servers
Publish	Venue Exhibition	Projectors	DCI compliant projectors
Publish	Venue Exhibition	Projectors	Professional video projectors
Publish	Venue Exhibition	Large LED Screens	Professional screens/signage
	Linear Signal		
Publish	Distribution	Distribution & Re-distribution	Encoding and multiplexing for distribution and re-distribution
	Linear Signal		
Publish	Distribution	Distribution & Re-distribution	Professional IRDs
	Linear Signal		
Publish	Lilledi Sigilai		
Publish	Distribution	Distribution & Re-distribution	Edge devices
	Distribution Linear Signal	Distribution & Re-distribution Cable Distribution	Cable set-top boxes
Publish	Distribution Linear Signal Linear Signal		Cable set-top boxes Cable middleware
Publish Publish	Distribution Linear Signal Linear Signal Linear Signal	Cable Distribution Cable Distribution IPTV Distribution	Cable set-top boxes Cable middleware IPTV set-top boxes
Publish Publish Publish	Distribution Linear Signal Linear Signal Linear Signal Linear Signal	Cable Distribution Cable Distribution IPTV Distribution IPTV Distribution	Cable set-top boxes Cable middleware IPTV set-top boxes IPTV middleware
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Publish Publish Publish	Distribution Linear Signal	Cable Distribution Cable Distribution IPTV Distribution IPTV Distribution Satellite Distribution Satellite Distribution	Cable set-top boxes Cable middleware IPTV set-top boxes IPTV middleware
Publish Publish Publish Publish Publish	Distribution Linear Signal	Cable Distribution Cable Distribution IPTV Distribution IPTV Distribution Satellite Distribution Satellite Distribution Terrestrial Distribution	Cable set-top boxes Cable middleware IPTV set-top boxes IPTV middleware Satellite set-top boxes Satellite middleware
Publish Publish Publish Publish	Distribution Linear Signal Distribution	Cable Distribution Cable Distribution IPTV Distribution IPTV Distribution Satellite Distribution Satellite Distribution Terrestrial Distribution Equipment	Cable set-top boxes Cable middleware IPTV set-top boxes IPTV middleware Satellite set-top boxes
Publish Publish Publish Publish Publish Publish	Distribution Linear Signal Distribution Linear Signal	Cable Distribution Cable Distribution IPTV Distribution IPTV Distribution Satellite Distribution Satellite Distribution Terrestrial Distribution Equipment Terrestrial Distribution	Cable set-top boxes Cable middleware IPTV set-top boxes IPTV middleware Satellite set-top boxes Satellite middleware Analog TV transmitters
Publish Publish Publish Publish Publish	Distribution Linear Signal Distribution Linear Signal Distribution	Cable Distribution Cable Distribution IPTV Distribution IPTV Distribution Satellite Distribution Satellite Distribution Terrestrial Distribution Equipment Terrestrial Distribution Equipment	Cable set-top boxes Cable middleware IPTV set-top boxes IPTV middleware Satellite set-top boxes Satellite middleware
Publish Publish Publish Publish Publish Publish Publish	Distribution Linear Signal Distribution Linear Signal Distribution Linear Signal	Cable Distribution Cable Distribution IPTV Distribution IPTV Distribution Satellite Distribution Satellite Distribution Terrestrial Distribution Equipment Terrestrial Distribution Equipment Terrestrial Distribution	Cable set-top boxes Cable middleware IPTV set-top boxes IPTV middleware Satellite set-top boxes Satellite middleware Analog TV transmitters  Digital TV transmitters
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Publish Publish Publish Publish Publish Publish Publish	Distribution Linear Signal Distribution Linear Signal Distribution Linear Signal	Cable Distribution Cable Distribution IPTV Distribution IPTV Distribution Satellite Distribution Satellite Distribution Terrestrial Distribution Equipment Terrestrial Distribution Equipment Terrestrial Distribution	Cable set-top boxes Cable middleware IPTV set-top boxes IPTV middleware Satellite set-top boxes Satellite middleware Analog TV transmitters  Digital TV transmitters

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Dublish	Linear Signal	Terrestrial Distribution	Assista Assurana DE association
Publish	Distribution	Equipment Terrestrial Distribution	Aerials, towers, RF accessories
Duddiala	Linear Signal		Tannastrial transposicion comitan
Publish Publish	Distribution Internet Distribution	Services Internet Distribution	Terrestrial transmission services Content delivery networks (CDNs)
Publish	Internet Distribution		Internet distribution platforms (incl. social media)
Monetize		Internet Distribution	Content rights management systems
	Acquire Content	Rights Management	
Monetize	Acquire Content	Rights Management	Royalties and participations management
Monotizo	Schodula Contant	Broadcast Management	Linear and non-linear scheduling
Monetize	Schedule Content	Systems Broadcast Management	Linear and non-linear scrieduling
Monotizo	Schodula Contant	o o	Traffic
Monetize Monetize	Schedule Content Sell Content &	Systems Advertising Systems	Traffic Advertising sales systems
	Sell Content &	Advertising Systems	Advertising sales systems Standalone advertising analytics
Monetize Monetize	Sell Content &	Advertising Systems Advertising Systems	Programmatic and addressable advertising platforms
Monetize	Sell Content &	Advertising Systems	Frogrammatic and addressable advertising platforms
Monetize	Advertising	Subscription & CRM Systems	Subscriber CRM, billing, subscriptions and ecommerce
Monetize	Analyze Data	Content Planning	Content-needs planning
Monetize	,	Data Analytics	Consumer data analysis
	Analyze Data	•	,
Consume Consume	User Experience User Experience	Identity Management UI & UX	Consumer identity management Consumer UI and UX design
Consume	User Experience	Apps & Platforms	Consumer apps and platforms
Connect	Provide Connectivity	Connectivity & Bandwidth	Fiber and private IP connectivity
Connect	Provide Connectivity  Provide Connectivity	Connectivity & Bandwidth	Internet direct connect
Connect	Provide Connectivity	Connectivity & Bandwidth	Satellite connectivity
Connect	Provide Connectivity	Connectivity & Bandwidth	Mobile/cellular connectivity
		•	
Connect	Provide Connectivity	Access Connectivity Access Connectivity	Fixed satellite antenna and ground stations ENG, SNG and flyaways
Connect	Provide Connectivity	,	Bonded cellular devices
Connect Connect	Provide Connectivity Provide Connectivity	Access Connectivity Access Connectivity	Microwave links (fixed, portable)
Connect	•	•	SDI video routers
	Real-Time Signal	Intra-Facility Connectivity	Hybrid SDI-IP video routers
Connect Connect	Real-Time Signal	Intra-Facility Connectivity	Router control
Connect	Real-Time Signal Real-Time Signal	Intra-Facility Connectivity Intra-Facility Connectivity	Timecode/sync generation and master clock
Connect	Real-Time Signal	Intra-Facility Connectivity	IP networks and switches and SDVN
Connect	Real-Time Signal	Inter-Facility Connectivity	Video-over-internet
Connect	Real-Time Signal	Inter-Facility Connectivity	Remote production tools
Connect	Real-Time Signal	Inter-Facility Connectivity	Contributor feeds (voice and video calls)
Connect	Real-Time Signal	Inter-Facility Connectivity	Live and high-density transcoders
Connect	Real-Time Signal	Inter-Facility Connectivity	Contribution encoders
Connect	Real-Time Signal	inter-racinty connectivity	Contribution encoders
Connect	Transfer	Video Interfacing & Conversion	Modular interfacing and signal processing
Connect	Real-Time Signal	video interracing & conversion	Widdlian interracing and signal processing
Connect	Transfer	Video Interfacing & Conversion	Standalone interfacing, signal processing and conversion
Connect	Real-Time Signal	video interracing & conversion	Standarone interfacing, signar processing and conversion
Connect	Transfer	Video Interfacing & Conversion	Fiher interfaces
Connect	Real-Time Signal	Audio Interfacing &	Tibel interfaces
Connect	Transfer	Conversion	Audio signal processing, routing and infrastructure
Connect	File Transfer	File & Object Delivery	File transfer and delivery.
Store	Real-Time Storage	VTRs & DVRs	VTRs and disk/memory card-based player/recorders
Store	Real-Time Storage	VTRs & DVRs	Digital video recorders
Store	Real-Time Storage	Video Servers	Media servers
Store	File-based & Object	Portable Storage	Camera media
Store	File-based & Object	Portable Storage	Portable RAID hard drives
Store	File-based & Object	On-Premise Storage	High-performance shared storage
Store	File-based & Object	On-Premise Storage	Near-line object storage
	File-based & Object	On-Premise Storage	Near-line Object storage Near-line NAS/SAN storage
Store	-		
Store	File-based & Object	On-Premise Storage	Off-line/archive storage
Store	File-based & Object	On-Premise Storage	Removable storage media
Store	File-based & Object	Cloud Storage	Cloud object storage
Store	File-based & Object	Cloud Storage	Cloud archive storage
Cupport	Monitoring, Control &	Video Meniterine	Video monitors
Support	Communications  Manitoring Control 9	Video Monitoring	Video monitors
Cummart	Monitoring, Control &	Video Menitorio	B. A. Iki, i a consultanta a sana
Support	Communications	Video Monitoring	Multiviewer display processors
Command	Monitoring, Control &	Video Menitorio	M/M and DCalD avetores
Support	Communications	Video Monitoring	KVM and PCoIP systems

	Monitoring, Control &		
Support	Communications	Audio Monitoring	Loudspeakers
Зиррогс	Monitoring, Control &	Addio Worldonig	Loudspeakers
Support	Communications	Audio Monitoring	Headphones
Зиррогі	Monitoring, Control &	Addio Worldonig	rreadphones
Support	Communications	Audio Monitoring	Audio measurement and loudness control
Зиррогс	Monitoring, Control &	Addio Worldonig	Addio measurement and loudness control
Support	Communications	System Monitoring & Control	Broadcast system control SW and HW
Зиррогс	Monitoring, Control &	System Monitoring & Control	broadcast system control sw and riw
Support	Communications	System Monitoring & Control	Under-monitor displays, signage and tallies
Зиррогс	Monitoring, Control &	System Monitoring & Control	onder-monitor displays, signage and tailes
Support	Communications	System Monitoring & Control	Network management, monitoring and orchestratation
Зиррогі	Monitoring, Control &	System Monitoring & Control	Network management, monitoring and ordiestratation
Support	Communications	System Monitoring & Control	Resource monitoring systems
Зиррогі	Monitoring, Control &	System Monitoring & Control	nesource monitoring systems
Support	Communications	System Monitoring & Control	Data-driven analysis and self-healing
Зиррогс	Monitoring, Control &	System Monitoring & Control	Data universaliarysis and sen-nearing
Support	Communications	Test & Measurement	Test and measurement equipment and software
<b>Заррог</b> С	Monitoring, Control &	rest a measurement	rest and measurement equipment and software
Support	Communications	Communications	Wired, IP and wireless intercoms and talkback
Support	Secure	Access	Single-sign on and authentication
Support	Secure	Protect	Cybersecurity and intrusion detection
Support	Compute	On-Premise Compute	Servers and blades
Support	Compute	On-Premise Compute	Virtualization and private cloud
Support	Compute	Cloud Compute	Cloud compute
Support	Compute	Cloud Compute	Other JaaS or PaaS
Support	Design, Build, Run	Facility Hardware	Structured wiring, cables, connectors
Support	Design, Build, Run	Facility Hardware	Racks and power distribution
Support	Design, Build, Run	Facility Hardware	Network power management/intelligent PDUs
Support	Design, Build, Run	Facility Hardware	Technical furniture
Support	Design, Build, Run	Facility Hardware	OB and SNG vehicle coachbuilding
Support	Design, Build, Run	Implementation Services	Consulting services
Support	Design, Build, Run	Implementation Services	Design and build systems integration services
Support	Design, Build, Run	Implementation Services	Software development and integration services
Support	Design, Build, Run	Rental Services	Dry-hire / rental