

Mandatory Requirements

VCAST Streaming Server 3000ER (VC-SR3000ER)

General Features:

- Support high-quality video/audio broadcast at various bit-rates for multiple devices (PC, TV via VBOX or Windows Mobile)
- Support live and on-demand video / audio broadcasting via any TCP/IP networks
- Highly scalable and expandable from small to large scale of streaming
- Ease of support and maintenance with remote management
- Support latest streaming technologies for best user experience over Internet, Intranet or Wireless
- Reliable for 7/24 operation with high availability and backup options
- Support publishing, re-broadcasting and content delivery via Vcast Network for global broadcasting (optional at charge-basis)
- Fully compatible and managed by Vcast Content Management System
- Provided by Certified Windows Media Hardware Product Vendor (Integrated Capture/Encoding Solutions and Appliances) listed in
- <u>http://www.microsoft.com/windows/windowsmedia/service_provider/Hardware/default.aspx#capture</u>
 Provided by Certified Windows Media Software Product Vendor (Software/Content Management) listed in

http://www.microsoft.com/windows/windowsmedia/service_provider/Software/default.aspx#content

Streaming Features:

- Support and compatible with Windows Media 6, 7, 8, 9, SMPTE VC-1 and MP3 formats
- Support unlimited* no. of broadcasting channels
- Support "Fast Streaming" capabilities which can effectively eliminate buffering time, and reduce the playback interruptions due to network conditions. Features like Fast Start, Fast Cache, Fast Recovery, and Fast Reconnect provide an always-on viewing experience by streaming content with minimal buffering and down-time, even over high latency network connections such as wireless and satellite.
- Support instant-on/always-on playback which can dramatically improves streaming reliability, responsiveness user experience and virtually eliminating annoying buffering delays and interruptions when playing digital media content
- Support Advanced Fast Start, Advanced FF/RW, and Play While Archiving (for Windows Media Player v10 or above only)
- Support Unicast / Multicast streaming and rollover from multicast to unicast automatically
- Provides simplified, flexible administration with increased reliability, security and scalability
- Support multiple streams failover and redundancy
- Support Internet authentication method (Digest, Kerberos or NTLM, NTFS ACL, Anonymous access or IP Address) and Vcast authentication plug-in(s) for integration with 3rd parties
- Support traffic management and logging
- Support wireless adaptive streaming with enabled forward error correction (FEC)
- Support redistribution via Vcast Streaming Server, Vcast Network or Content Delivery Network (CDN) model using Vcast CDN add-on module (optional)

VCAST Content Management (VCM) Lite Features:

General features: • Each video clip should contains at least the following informat their profile: - Title • Description - Keywords • Author
 Copyright Bandwidth Duration File size

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	Mandatory Requirements
	Local Database (Size up to 4GB limit)
Upload video:	 Support at least 100 MB file size or above using web-based interface by HTTP protocol (TCP port 80 or 8080)
	 Progress status bar shows during file upload for the uploading status Video clips will not be published to public until the approval of
	authorized users
Search video:	Support multiple criteria searching of video clips by the fields of video profile including title, description, keywords, author, copyright,
	 bandwidth, duration and file size Support video preview by unicast on-demand streaming model
	• Support sorting in order for searching results (e.g. by title, duration, etc.)
Delete video:	 Video clips can be selected and deleted by authorized users
	 Video clips can be deleted in batch mode (i.e. delete multiple video by a simple click)
Channel	
General features:	Support unlimited* of channels
	Support Unicast streaming*
Create channel:	 Administrator can create channel(s) which contains live or on- demand video streams
Edit channel:	 Information and the scheduled content of the channel can be edited by authorized users
Delete channel:	Channels can be deleted by authorized users
Streaming Specification	ns
	RTSP, HTTP
	 Unicast, Multicast (Support Rollover to Unicast)
Supported Streaming Protocol & Broadcasting Method:	Streaming Cache and Proxy
	 Wireless adaptive streaming
	Re-broadcast from Vcast Streaming Servers or Vcast Streaming
	Encoders
	Optional Add-on Module:
	Vcast CDN (Content Delivery Network)
Max. Concurrent	 1,000 live concurrent streams for up to 300Mbps throughput
Streams:	300-500 on-demand streams for up to 100Mbps throughput
Support Broadcasting Channel:	Unlimited*
Support Streaming Format:	 Windows Media 6, 7, 8, 9, SMPTE VC-1 and MP3
Advanced Streaming	• Fast Start, Fast Cache, Fast Recovery, Fast Reconnect, Instant-
Technology:	on/Always-on, Advanced Fast Start, Advanced FF/RW and Play
	While Archiving
Security Authentication	 Digest, Kerberos or NTLM, NTFS ACL, Anonymous access or IP Address
	 Vcast authentication plug-in(s) for integration with 3rd parties
Failover and Redundancy	Support multiple sources from Vcast Streaming Encoder and
	switch over automatically
	Support resilience and failover
Activity Logging and Reporting Bandwidth and Traffic	Support Unicode or ANSI characters
	Support specified logging cycle period
	Player connections
	Outgoing distribution connections
	Aggregate player bandwidth
Managamart	
Management	 Aggregate outgoing distribution bandwidth

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	Bandwidth per outgoing distribution stream
	Connection rate
	Player timeout inactivity
	Connection acknowledgement
	Incoming bandwidth
	Fast Start bandwidth per player
	Fast Cache content delivery rate
Hardware Specification	e
Processor:	Dual Core Intel® Core2Duo E8500 or above
Memory:	1 x 2GB Unbuffered DDR2 ECC RAM
	Main Storage:
	• 2 x 500GB SATA2 HDD (RAID 1)
Storego Consoltu	Optical Drive
Storage Capacity:	(DVD+/-DL, DVD+/-RW, DVD+/-R, DVD-RAM, CD-ROM, CD-RW)
	Optional Upgrades:
	 External USB Floppy Disk Drive
Network Interface:	 2 x 10/100/1000Mbps Ethernet (RJ45, Copper)
Power Input Voltage:	 115 VAC (90 to 132 VAC related input) or 230 VAC (180 to 264
	VAC related input)
Output Power:	• 510W
Keyboard & Mouse:	Wired keyboard and mouse
Chassis Enclosure and	 3U 19' inch rack-mountable chassis
Dimension:	660 x 430 x 132 (D x W x H) mm
Preinstalled OS & Software:	Microsoft® Windows Server 2008 Enterprise Edition (64 bits)
	Microsoft® Windows Media Services 9.5
	 Microsoft® Windows Media Player 11
	Remote control tools for remote administration via TCP/IP

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