Vcast (Asia) Limited



Unit 109-110, No. 5 Science Park West Avenue Hong Kong Science Park, Shatin, N.T., Hong Kong Tel: (852) 2121-8899 Fax: (852) 2121-8898

E-mail: enquiry@vcast.net
Homepage: http://www.vcast.net

Mandatory Requirements

VCAST Streaming Server 3000SR (VC-SR3000SR)

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
 - http://www.microsoft.com/windows/windowsmedia/service_provider/Hardware/default.aspx#capture
- 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, 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 (for Windows Media Player v10 or above only)
- Support Unicast streaming
- 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)
- 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:

www.vcast.net Page 1 of 3





Unit 109-110, No. 5 Science Park West Avenue Hong Kong Science Park, Shatin, N.T., Hong Kong Tel: (852) 2121-8899

Fax: (852) 2121-8898
E-mail: enquiry@vcast.net
Homepage: http://www.vcast.net

Mandatory Requirements		
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 Afgles a line will be to be good line and line an	
	 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	
Champal	by a simple click)	
Channel General features:	Support unlimited* of channels	
General leatures:	 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	าร	
<u> </u>	RTSP, HTTP	
	• Unicast	
Supported Streaming	Streaming Cache and Proxy	
Protocol &	Wireless adaptive streaming	
Broadcasting Method:	• Re-broadcast from Vcast Streaming Servers or Vcast Streaming	
J	Encoders Continued Add an Market	
	Optional Add-on Module:	
Max. Concurrent	 Vcast CDN (Content Delivery Network) 1,000 live concurrent streams for up to 300Mbps throughput 	
Streams:	300-500 on-demand streams for up to 100Mbps throughput	
Support Broadcasting	Unlimited*	
Channel:	- Offinition	
Support Streaming	 Windows Media 6, 7, 8, 9, SMPTE VC-1 and MP3 	
Format:		
Advanced Streaming	• Fast Start, Fast Cache, Fast Recovery, Fast Reconnect, Instant-	
Technology:	on/Always-on and Advanced Fast Start	
Security Authorization	Digest, Kerberos or NTLM, NTFS ACL, Anonymous access or IP Address	
Authentication	Address	
Failover and	Support multiple sources from Vcast Streaming Encoder and switch over sutemetically.	
Redundancy	switch over automatically	
Activity Logging and	Support Unicode or ANSI characters	
Activity Logging and Reporting	Support Unicode or ANSI characters Support specified logging cycle period	
reporting	Support specified logging cycle periodPlayer connections	
	 Player connections Outgoing distribution connections 	
	 Aggregate player bandwidth 	
Bandwidth and Traffic	 Aggregate player bandwidth Aggregate outgoing distribution bandwidth 	
Management	Bandwidth per stream per player	
wanagement	Bandwidth per stream per player Bandwidth per outgoing distribution stream	
	Connection rate	

www.vcast.net Page 2 of 3



Vcast (Asia) Limited

Unit 109-110, No. 5 Science Park West Avenue Hong Kong Science Park, Shatin, N.T., Hong Kong Tel: (852) 2121-8899 Fax: (852) 2121-8898

E-mail: enquiry@vcast.net
Homepage: http://www.vcast.net

Mandatory Requirements		
	Connection acknowledgement	
	Incoming bandwidth	
	 Fast Start bandwidth per player 	
	Fast Cache content delivery rate	
Hardware Specificati	ons	
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) 	
Storage Capacity:	Optical Drive	
	(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:

• 2 x 10/100/1000/inpps Etrieffiet (R345, Copper)

• 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 660 x 430 x 132 (D x W x H) mm

Microsoft® Windows Server 2008 Standard Edition (64 bits)

Preinstalled OS & Software:

Microsoft® Windows Media Services 9.5

Microsoft® Windows Media Player 11

Remote control tools for remote administration via TCP/IP

* Limited by the hardware capability

www.vcast.net Page 3 of 3