# 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: <a href="mailto:enquiry@vcast.net">enquiry@vcast.net</a>
Homepage: <a href="http://www.vcast.net">http://www.vcast.net</a>

## **Mandatory Requirements**

## VCAST Streaming Server 6800R-RN (VC-SR6800R-RN)

#### **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, RealAudio, RealVideo, Quick Time, AAC and AAC+ 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 3<sup>rd</sup> 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:**

Video search and browsing			
General features:	Each video clip should contains at least the following information in their profile:     Title     Description     Keywords     Author     Copyright     Bandwidth     Duration     File size		

www.vcast.net Page 1 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
	Video duration can be auto-detected by the VCM
	<ul> <li>Local Database (Size up to 4GB limit)</li> </ul>
Upload video:	<ul> <li>Support at least 100 MB file size or above using web-based</li> </ul>
	interface by HTTP protocol (TCP port 80 or 8080)
	<ul> <li>Progress status bar shows during file upload for the uploading status</li> </ul>
	<ul> <li>Video clips will not be published to public until the approval of</li> </ul>
	authorized users
Search video:	<ul> <li>Support multiple criteria searching of video clips by the fields of</li> </ul>
	video profile including title, description, keywords, author, copyright,
	bandwidth, duration and file size
	<ul> <li>Support video preview by unicast on-demand streaming model</li> </ul>
	<ul> <li>Support sorting in order for searching results (e.g. by title, duration,</li> </ul>
	etc.)
Delete video:	<ul> <li>Video clips can be selected and deleted by authorized users</li> </ul>
	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-
Edit abanyatı	demand video streams
Edit channel:	Information and the scheduled content of the channel can be edited     Information and the scheduled content of the channel can be edited
Delete channel:	by authorized users
Delete channel:	Channels can be deleted by authorized users
Streaming Specificatio	ns
	RTSP, HTTP
	<ul> <li>Unicast, Multicast (Support Rollover to Unicast)</li> </ul>
Commonted Ctroopsing	Streaming Cache and Proxy
Supported Streaming Protocol &	Wireless adaptive streaming
	<ul> <li>Re-broadcast from Vcast Streaming Servers or Vcast Streaming</li> </ul>
<b>Broadcasting Method:</b>	Encoders
	Optional Add-on Module:
	<ul> <li>Vcast CDN (Content Delivery Network)</li> </ul>
Max. Concurrent	2,000 live concurrent streams for up to 600Mbps throughput
Streams:	<ul> <li>500-1000 on-demand streams for up to 200Mbps throughput</li> </ul>
Support Broadcasting	Unlimited*
Channel:	
Support Streaming	<ul> <li>Windows Media 6, 7, 8, 9, SMPTE VC-1, MP3, RealAudio,</li> </ul>
Format:	RealVideo, Quick Time, AAC and AAC+ formats
A diverse and Comments	Fast Start, Fast Cache, Fast Recovery, Fast Reconnect, Instant-
Advanced Streaming	- I dot date, I dot date, I dot tooty, I dot toothing, I dot to

Technology:

Security

Address Authentication Vcast authentication plug-in(s) for integration with 3<sup>rd</sup> parties Support multiple sources from Vcast Streaming Encoder and Failover and switch over automatically Redundancy Support resilience and failover **Activity Logging and** Support Unicode or ANSI characters Reporting Support specified logging cycle period Player connections **Bandwidth and Traffic** Outgoing distribution connections Management Aggregate player bandwidth • Aggregate outgoing distribution bandwidth www.vcast.net

While Archiving

on/Always-on, Advanced Fast Start, Advanced FF/RW and Play

Digest, Kerberos or NTLM, NTFS ACL, Anonymous access or IP



# **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			
•	Bandwidth per stream per player		
•	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	s
Processor:	Quad Core Intel® XEON E5405A or above
Memory:	<ul> <li>2 x 1GB ECC Fully Buffered DDR2 RAM</li> </ul>
Storage Capacity:	<ul> <li>Main Storage:</li> <li>5 x 146GB SAS hot-plug HDD in RAID 5 Configurable to support H/W RAID 0, 1,1E, 5, 5EE, 6, 10, 50, 60, JBOD</li> <li>Optical Drive (DVD+/-DL, DVD+/-RW, DVD+/-R, DVD-RAM, CD-ROM, CD-RW)</li> </ul>
	Optional Upgrades:  External USB Floppy Disk Drive
Network Interface:	<ul> <li>2 x 10/100/1000Mbps Ethernet (RJ45, Copper)</li> </ul>
Power Input Voltage:	<ul> <li>115 VAC (90 to 132 VAC related input) or 230 VAC (180 to 264 VAC related input)</li> </ul>
Output Power:	<ul> <li>2+1 650W hot-swap redundant power supply</li> </ul>
Keyboard & Mouse:	Wired keyboard and mouse
Chassis Enclosure and Dimension:	3U 19' inch rack-mountable chassis 660 x 430 x 132 (D x W x H) mm
Preinstalled OS & Software:	<ul> <li>Microsoft® Windows Server 2008 Enterprise Edition (64 bits)</li> <li>Microsoft® Windows Media Services 9.5</li> <li>Helix Server Unlimited</li> <li>Microsoft® Windows Media Player 11</li> <li>Remote control tools for remote administration via TCP/IP</li> </ul>

\* Limited by the hardware capability

www.vcast.net Page 3 of 3