

Reach Video Conference Recorder (VCR)

Recording and Streaming Server User Manual

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Chapter I Introduction

1.1 Product Overview

VCR series network recording and streaming server is the latest generation of the multi-media recording and streaming system. It is developed independently by Reach Ltd., Co. to meet the requirements of the video conferencing industry. This recording and streaming system can work together with all standard H.323 MCUs and terminals to record and stream multiple conferences at various rates and in different modes. In addition, this system supports various functions including live streaming, VOD playback, remote management, and file management. With the characteristics of simple operation, stable performance, and easy management, VCR series network recording and streaming server allows users to record and disseminate visual information in the conference, training, and teaching scenarios.



1.2 Networking Diagram

The recording and streaming server, MCU, and video conferencing terminals are in the same network and use H.323 protocol for mutual communication. Upon adding to a conference, the recording and streaming server enables the recording port to start and stop recording.

The recording and streaming server records the code streams from the MCU and terminals.

Users can log onto the recording and streaming server to view conferences in live or VOD mode using a web browser. In addition, users can download recorded conference files.

1.3 IP Address Configuration

- Place the VCR network recording and streaming server in a cabinet of the conference or control room.
- Insert each power cable connector into the power jack of the recording and streaming server.
- > Connect a network cable to the WAN port at the back of the server.
- > Turn on the power switch.



Network port description:

WAN port: used by the administrator for system setting. The default IP address is 10.10.10.10 (which cannot be changed) and the default port number is 800.

LAN port: used by the administrator and users for login. The administrator can obtain the IP address of the LAN port after logging onto the system through the WAN port. The default port number is 80.

- Add an IP address to the client PC, such as 10.10.10.x (where x is any integer between 1 and 254, except 10), with the subnet mask of 255.255.255.0.
- Open the IE browser and enter the URL in the address bar, such as http://10.10.10.10.800 (the WAN port has been enabled and the port number needs to be entered). Enter the username and password (the default values are admin and 1234 respectively) in the login page of the recording and streaming server.

Username	
admin	
Password	
••••	
LOGIN	

Click the **IP** menu to change the IP address, subnet mask, and default gateway of the LAN port (LAN1). Click **Submit** to reboot the system.(Note: The reboot process takes about two minutes.)

status	
(Pp	
The module	
E license	
🜯 user	
🕥 time	
Ianguage	
I shutdown	
version	

		INCUIDASK	Galeway	NA I Address
LAN1	192.168.1.220	255.255.255.0	192.168.1.254	
AN2	10.10.10.10	255.255.255.0		
Submit				

Connect the LAN port to a switch to enable the recording and streaming server.

1.4 Cautions

➤ It is recommended to change the password for the admin user though the default username cannot be changed. If the password is changed and subsequently lost, ask for the technical support of the manufacturer to restore the username and password to **admin** and **1234** respectively.

 Ensure that the power supply and network connection are normal during the IP configuration and upgrade process.

Chapter II System Application

2.1 Web Login

H.323 recording and streaming server uses web pages for management and application. It supports the mainstream browsers (such as Internet Explorer and Firefox). The default number of the LAN port is 80.

After entering the server address <u>http://IP/</u> in the address bar of the web browser and the username and password in the login page, you can log onto the server system. The default username and password of the super administrator are both **admin**.

Note: For 1.7 and later versions of web pages, the login username and password are both **admin** by default; for 1.6 and earlier versions, the login username and password are both **root** by default.



Figure 2-2 Login home page

2.2 Application Mode

An application scenario is used as an example to describe different functions of the recording and streaming server.

2.2.1 Concept Overview

1. Superuser (admin): The admin user is the super administrator of the recording and streaming server and can use all the functions of the server. Only the admin user can manage user groups.

- 2. Group: In the scenario where the recording and streaming server supports the concurrent and separate recording, groups are used to manage separate recording tasks and related unicast, VOD, and multicast resources.
- 3. Group administrator: Each group has at least one administrator to manage group resources including users, recording templates, and files.
- 4. Group user: A group user can view unicast, multicast, and VOD streams, but cannot manage recording tasks and recording files.

2.2.2 User Group Management

After logging onto the system using the admin user account (the name of superuser is **root** for the web page in versions earlier than 1.7), click **Users** and **Group Management** in sequence. Click **Add** in the pop-up **Group Information** window.

Group Information	×
🕄 Add 😑 Delete	
Name	
root default	
Group1	
Group2	
	Close

Figure 2-3 User group management

Enter the name of a new group in the **Name** entry and click **OK** to add the new group. As shown in figure 2-3, the system currently has three user groups: general user group, administrator group, and test group 1.

To delete a user group, select the group and click **Delete**, as shown in the following diagram:

Group Information	×
🟵 Add 😑 Delete	
Name	
root default	
Group1	
Group2	
	Close

Figure 2-4 Deletion of a user group

2.2.3 User Management

The superuser **admin** (the name of superuser is **root** for the web page in versions earlier than 1.7) and each user group administrator can manage users as needed. The detailed procedure is as follows:Click **Add** in the **Users** tab to display the following window:

User Informati	ion ×
General —	
Name:	test
Password:	••••
Mail:	test@szreach.com
Role:	Guest
Group:	Group1
Rules:	🖌 Demand 🛛 🗹 Multicast
	Download File Delete File
	Modify File Upload Doc.
	Download Doc. 🔲 Delete Doc.
	Ok Cancel

Figure 2-5 Addition of a user

Enter the username, password, and mail in the corresponding entries. Select the user role and the group to which the user belongs, grant users the permission to view live or VOD streams as needed, and click **OK**.

Click in the user list to delete a selected user.

🏂 Templates 🛛 🐴 Tas	sks 🖩 Files ^{&} Users	🗞 Log 🛛 🙆 Version				
				👬 Group Ma	anagement 🛛 🛞 Refresh	👃 🕹 Add
Name	Role 🔺	Group	Mail	Times of login	Last login	
Group : Admin (3)						
admin		root	admin@admin.com	20	2013-04-01 12:51:41	/ 🖯
1		Group1	david@szreach.com	3	2013-03-29 14:01:44	/ 😔
3		Group1	david@szreach.com	0	2013-03-29 13:45:58	/0

Figure 2-6 Deletion of a user

Each user is allowed to change the password after login.



Change Password		×
Username:	admin	
New password:		
Confirm new password:		
	Ok Cancel	

Figure 2-7 Changing of a user password

2.2.4 Template Management

After a user group and group users are added, each user group administrator and the superuser **admin** can create a recording template for each user group. The detailed procedure is as follows:Click **Add** in the **Templates** tab to display the following window:

Template Informat	ion		×
General H.323	Sniffer		
Device IP:	127.0.0.1		~
Name:		Group: root	V
Type:	H323 💌	Record File: 🔽	
Unicast:	>	Multicast: 📃	
Mixer Mode:		Incoming Call: 🗹	
Auto Backup:			
Pipelines:			
		Ok	Cancel



Enter information in the corresponding entries and click OK to complete the

creation process. Templates newly created are displayed in the template list as shown

in the following diagram:

龙 Templates 🍯 Tasks 🔳 Files 🛸 Users 🔍 Log 🤷 Version					
				😚 Refresh	🛛 🛞 Add
Name	Group	Time	Туре	Record File	
Device : Local (2)					
ff	root	2013-03-29 13:32:34		Yes	/ 🖯 찬
david	Group1	2013-03-29 14:31:39		Yes	/ 🖯 찬

The	meaning	of ea	ach entr	ry	is	describ	ed as	follo	ws:	
Entry			Descriptio	on						
Genera	l									
Name			Indicates	the	name	of a	template,	which	is	
			user-defin	ed.						
Group			Indicates	the gr	oup to	which a	template	belongs.	All	
			unicast str	reams	, multic	east strea	ams, and fi	les recor	ded	
			under the	templ	ate belo	ong to th	nis group.			
Туре			Indicates	the re	cording	type. T	he value ca	an be:		
			H.323: us	ed for	the H.	323 reco	ording.			
			H.323_P:	use	d for	the H	.323 reco	ording v	vith	
			customize	ed stre	aming.					
			Encoder: used for the analog recording. At present,							
			only the Launch encoder is supported.							
			Sniffer: used for the packet capture recording (where							
			mirroring	is per	formed	on the s	switch).			
Record	l File		Indicates	wheth	er reco	rding fil	es are gen	erated.		
Unicas	t		Indicates	wheth	er unic	ast strea	ms are per	mitted.		
Multica	ast		Indicates	wheth	er mult	icast str	eams are p	ermitted.		
Mixer	Mode		Indicates	whetl	her the	main a	nd second	lary strea	ams	
			are integra	ated in	nto a sii	ngle vide	eo stream.			
			If ticked	off, a	single	recordin	ng file is g	enerated	for	
			both the	main	and se	condary	streams,	but the t	two	

Figure 2-9 Template list

	streams are displayed in the same window in						
	split-screen mode.						
	If not ticked off, a single recording file is generated						
	for both the main and secondary streams, and the						
	two streams are displayed separately in two different						
	windows.						
Incoming Call	Indicates whether an incoming call of a remote						
	H.323 terminal can trigger the recording and play						
	task.						
Auto Backup	Indicates whether recording files can be						
	automatically backed up in a third-party FTP server.						
Н.323							
Remote Addr	Indicates the IP address of the remote MCU. If the						
	MCU has multiple IP addresses, they need to be						
	separated by commas ",".						
E164	Indicates the number used by a remote terminal for						
	registration to the GK netshell.						
Audio	Indicates whether audio streams are permitted.						
Video	Indicates whether video streams are permitted.						
Dual Video	Indicates whether dual streams are permitted.						
Н.239	Indicates whether H.239 dual streams are permitted.						
Force Dual	This option is not ticked-off by default. You can tick						
	off this option only when the recording and						
	streaming server is connected to certain ZTE MCUs.						
FECC	Indicates the remote control function, allowing the						
	terminal to display videos on demand through a						
	remote control.						
Bandwidth	Indicates the bit rate of a recording task. The value						
	can be 384K, 512K, 768K, 1M, 1.5M, 2M, 4M, or						

	8M, in bits.
Audio Codec	Indicates an audio codec, which can be G.711A,
	G.711U, G.722, G.729, or Auto (automatically
	adaptive).
Video Codec	Indicates a video codec, which can be H.261, H.263,
	H.263, or Auto (automatically adaptive).
Dual Codec	Indicates a dual-stream codec, which can be H.261,
	H.263, H.263, or Auto (automatically adaptive).
Video Size	Indicates the resolution of a video stream, which can
	be SQCIF, QCIF, CIF, 4CIF, 16CIF, SVGA, VGA,
	XGA, 720P, 1080P, or Auto (the resolution provided
	by the adaptive terminal or MCU).
Dual Size	Indicates the resolution of dual streams, which can
	be SQCIF, QCIF, CIF, 4CIF, 16CIF, SVGA, VGA,
	XGA, 720P, 1080P, or Auto (the resolution provided
	by the adaptive terminal or MCU).
Play File	Indicates the media file played for the remote H.323
	terminal.
Sniffer	-
Name	Indicates the name of an encoder, which is
	user-defined.
Src	Indicates a source IP address.
	For codec recording, enter the IP address of the
	encoder.
	For monitoring recording, enter the IP address of the
	sender.
Dst	Indicates a destination IP address.
	For codec recording, enter the IP address of the
	encoder.

	For monitoring recording, enter the IP address of the
	receiver.
Parameter	Indicates the parameter settings. No action is
	required by default.

Table 2-1 Template parameter description

In most cases, entries such as **Name**, **Type**, **Remote Addr** (for H.323 or H.323_P), or **E164** in the preceding table must be filled up.

To use a template for starting a recording task or to delete/edit a template, select

the template name in the list and click any of the 200 icons as needed. The dialog box that is displayed after the template editing button is clicked is used as an example:

🗖 Templates 📑 Tasks	💷 Files 🛛 🚨 Users 🔊	Log 🙆 Version	
		Template Information	× esh ⊕ Add
Name		T General H.323 Sniffer	
Device : Local (2)		Device IP: 127.0.0.1	
ff	root	2 Name: Group: root	
david	Group1	Type: H323 💌 Record File: 🗹	/ 🗆 🏞
		Unicast: 🗹 Multicast:	
		Mixer Mode: Incoming Call: 🗹	
		Auto Backup:	
		Pipelines:	
		Ok Cance	

Figure 2-10 Editing of a template

Note that the name can be specified for a task or a recorded file.

2.2.5 Task Management

If a recording task is started through the **Template** tab or an incoming call of an H.323 remote terminal, a list of all tasks in the current group will be displayed in the task management page.

🕫 Templates	🖥 Tasks 🔳 Files	🚨 Users 🛛 📎	Log 🔮 Version						
Name	Time	Status	View Only	Group	Unicast	Multicast			
Device : Local (1)									
david[2013-04-01.	2013-04-01 13:45	running	No		play 1	multicast 1	0 🗢 🌣 🕕		

Figure 2-11 Running task list

Double-click a running task to view its details in the dialog box shown as follows:

🕫 Templates 💁 Tasks 🖩 Files	🚨 Users 🛛 🤇	Log 📀 Version						_
Name Time	Status	Task information					×	<
Device : Local (1)								
david[2013-04-01 2013-04-01 13:45	running							• 🔅 🕦
		name	codec	total	lost	fps	bitrate	
		h323 audio channel	G722	3334	0	0	69075	
		h323 video channel	H264	28851	13	25	3996064	
							Close	



The group administrator can stop a recording task and view unicast streams, while the group users can only view unicast streams. To view unicast streams, the user needs to click Unicast to prompt a new window in which unicast streams are played.



Figure 2-11 Receiving of live streams

The following diagram shows the control icons of the player:



Figure 2-12 Control icons of the player

2.2.6 File Management

1. Generating a recording file

When a group administrator stops a recording task or a remote H.323 terminal stops calling, the task ends, with a recording file being generated automatically. At present, the VCR recording and streaming server supports only files in MP4 format. To download, delete, edit, or view a recording file, first select the file and

click any of the

🛛 😼 т	emplates 🛛 🚳 Tasks 🔳 File	es 🔺 Users 🔊 Log	Version						
							📀 Refresh List	1 Upload	🔚 Backup
	File Name 🚽	Time	Туре	Length	Duration	Group			
■ De	wice: Local								<u>^</u>
1	david[2013-03-29-14-31-42]	2013-03-30 09:28:46	MP4	1997.8 MB	1h26m19s	Group1			
2	david[2013-03-29-14-31-42]	2013-03-30 08:02:42	MP4	1997.8 MB	1h19m41s	Group1			
3	david[2013-03-29-14-31-42]	2013-03-30 06:42:59	MP4	1997.8 MB	1h11m15s	Group1			
4	david[2013-03-29-14-31-42]	2013-03-30 05:31:44	MP4	1997.8 MB	1h10m56s	Group1			
5	david[2013-03-29-14-31-42]	2013-03-30 04:20:47	MP4	1997.9 MB	1h13m47s	Group1			
6	david[2013-03-29-14-31-42]	2013-03-30 03:06:57	MP4	1997.9 MB	1h13m29s	Group1			=
7	david[2013-03-29-14-31-42]	2013-03-30 01:53:30	MP4	1997.8 MB	1h9m57s	Group1			
8	david[2013-03-29-14-31-42]	2013-03-30 00:43:31	MP4	1997.8 MB	1h11m32s	Group1			
9	david[2013-03-29-14-31-42]	2013-03-29 23:31:59	MP4	1997.8 MB	1h12m7s	Group1			
10	david[2013-03-29-14-31-42]	2013-03-29 22:19:49	MP4	1997.8 MB	1h17m26s	Group1			
11	david[2013-03-29-14-31-42]	2013-03-29 21:02:09	MP4	1997.8 MB	1h18m56s	Group1			
12	david[2013-03-29-14-31-42]	2013-03-29 19:43:11	MP4	1997.8 MB	1h17m43s	Group1			
13	david[2013-03-29-14-31-42]	2013-03-29 18:25:43	MP4	1997.8 MB	1h15m53s	Group1			
14	david[2013-03-29-14-31-42]	2013-03-29 17:09:34	MP4	1997.8 MB	1h18m43s	Group1			
15	david[2013-03-29-14-31-42]	2013-03-29 15:50:58	MP4	1997.8 MB	1h18m24s	Group1			
10	doubd[2012.02.20.14.20.52]	3013 03 30 14-31-07	MD4	AE D MR	4000	Crount			~
	● Page 1 of 2 🕨 🕨 🛱						5	Show file list	1 - 20 of 23

Figure 2-13 File management

2. Viewing a recording file

To view a recording file, double-click the file name or click 2 as shown in the following diagram:

H.323 recording and streaming server User manual

Т 🏷	emplates 🛛 🐴 Tas	sks 📕	Files	all Users	🗞 Log	😌 Version					
								Ś	Refresh List	🎓 Upload	블 Backup
	File Name		Time		Туре	Length	Duration	Group			
4	david[2013-03-29-1	4-31	2013-03-3	30 05:31:44	MP4	1997.8 MB	1h10m56s	Group1			*
5	david[2013-03-29-1	4-31	2013-03-3	30 04:20:47	MP4	1997.9 MB	1h13m47s	Group1			
6	david[2013-03-29-1	4-31	2013-03-3	30 03:06:57	MP4	1997.9 MB	1h13m29s	Group1			_
7	david[2013-03-29-1	4-31	2013-03-3	30 01:53:30	MP4	1997.8 MB	1h9m57s	Group1		🕂 🔆	N 🖻 🖬
8	david[2013-03-29-1	4-31	2013-03-3	30 00:43:31	MP4	1997.8 MB	1h11m32s	Group1			Diav I
9	david[2013-03-29-1	4-31	2013-03-2	29 23:31:59	MP4	1997.8 MB	1h12m7s	Group1			Play
10	david[2013-03-29-1	4-31	2013-03-2	29 22:19:49	MP4	1997.8 MB	1h17m26s	Group1			
11	david[2013-03-29-1	4-31	2013-03-2	29 21:02:09	MP4	1997.8 MB	1h18m56s	Group1			
12	david[2013-03-29-1	4-31	2013-03-2	29 19:43:11	MP4	1997.8 MB	1h17m43s	Group1			
13	david[2013-03-29-1	4-31	2013-03-2	29 18:25:43	MP4	1997.8 MB	1h15m53s	Group1			-
H -	Page 1 of 2		\$				·			Show file list	1 - 20 of 23

Figure 2-14 File display



Figure 2-15 Playing interface

3. Changing a file name

To change a file name, click and enter the new name. After that, click **OK**.

🕫 т	emplates	🚳 Tasks	Eiles	🚨 Users	🗞 Log	📀 Version					
									Refresh List	🏫 Upload	冒 Backup
	File Name		Time		Туре	e Length	Duration	Group			
4	david[2013	-03-29-14-31	. 2013-03-	-30 05:31:44	MP4	1997.8 MB	1h10m56s	Group1			*
5	david[2013	-03-29-14-31	. 2013-03-	-30 04:20:47	MP4	1997.9 MB	1h13m47s	Group1			
6	david[2013	-03-29-14-31	. 2013-03-	-30 03:06:57	MP4	1997.9 MB	1h13m29s	Group1			_
7	david[2013	-03-29-14-31	. 2013-03-	-30 01:53:30	MP4	1997.8 MB	1h9m57s	Group1		🕂 🖗	<u>s 2 G</u>
8	david[2013	-03-29-14-31	. 2013-03-	-30 00:43:31	MP4	1997.8 MB	1h11m32s	Group1			Ξ
9	david[2013	-03-29-14-31	. 2013-03-	-29 23:31:59	MP4	1997.8 MB	1h12m7s	Group1			
10	david[2013	-03-29-14-31	. 2013-03-	-29 22:19:49	MP4	1997.8 MB	1h17m26s	Group1			
11	david[2013	-03-29-14-31	. 2013-03-	-29 21:02:09	MP4	1997.8 MB	1h18m56s	Group1			
12	david[2013	-03-29-14-31	. 2013-03-	-29 19:43:11	MP4	1997.8 MB	1h17m43s	Group1			
13	david[2013	-03-29-14-31	. 2013-03-	-29 18:25:43	MP4	1997.8 MB	1h15m53s	Group1			-
I I	Page 1	of 2 🕨	N ∣ ¢							Show file list	1 - 20 of 23

Figure 2-16 Changing of a file name

File Information	n	×										
File Name:	david[2013-03-29-14-31-42]_008.mp4											
Time:		2013-03-30 01:53:30										
Туре:												
Length:												
Duration:												
Group:	Name											
	root											
	Group1											
	Group2											
	Ok Cance											

Figure 2-17 File information query

4. Downloading a file

🕫 т	emplates 🛛 🐴 Tasks 📕	🗏 Files 🛛 🏝 Users	🗞 Log	🞯 Version				
						🦻 Refresh List	👚 Upload	블 Backup
	File Name	Time	Туре	Length	Duration	Group		
■ De	vice: Local							•
1	david[2013-03-29-14-31	2013-03-30 09:28:46	MP4	1997.8 MB	1h26m19s	Group1		
2	david[2013-03-29-14-31	2013-03-30 08:02:42	MP4	1997.8 MB	1h19m41s	Group1		
3	david[2013-03-29-14-31	2013-03-30 06:42:59	MP4	1997.8 MB	1h11m15s	Group1		
4	david[2013-03-29-14-31	2013-03-30 05:31:44	MP4	1997.8 MB	1h10m56s	Group1		
5	david[2013-03-29-14-31	2013-03-30 04:20:47	MP4	1997.9 MB	1h13m47s	Group1		
6	david[2013-03-29-14-31	2013-03-30 03:06:57	MP4	1997.9 MB	1h13m29s	Group1	🚽 🔛	S 🛛 🗋
7	david[2013-03-29-14-31	2013-03-30 01:53:30	MP4	1997.8 MB	1h9m57s	Group1		
8	david[2013-03-29-14-31	2013-03-30 00:43:31	MP4	1997.8 MB	1h11m32s	Group1		
9	david[2013-03-29-14-31	2013-03-29 23:31:59	MP4	1997.8 MB	1h12m7s	Group1		
10	david[2013-03-29-14-31	2013-03-29 22:19:49	MP4	1997.8 MB	1h17m26s	Group1		
11	david[2013-03-29-14-31	2013-03-29 21:02:09	MP4	1997.8 MB	1h18m56s	Group1		
12	david[2013-03-29-14-31	2013-03-29 19:43:11	MP4	1997.8 MB	1h17m43s	Group1		

Figure 2-18 File download

Select a file and click to download the file to a specific directory.2.2.7

File Upload and Backup

1. Uploading a file

Click **Upload** in the **Files** tab to upload media files on the client PC to the

recording and streaming server for resource sharing.

文件管理组件											
● □ Desidop ◆ □ ★ ■ ★ <td< td=""><td>🚺 💿 🕫 F1</td><td colspan="10"></td></td<>	🚺 💿 🕫 F1										
		74	75			78			-		
~	setup.exe	SoftCo IP语音综合 1.35 MB (3)	upload.mp4 27.7 MB	xxx外设产品品质 807 KB 😮	《外设产品供货用 35.5 KB 🛟	产品概述.docx 508 KB (3)	医疗示教终端报告 4.96 MB 🔇	华为机柜设计全过 120MB 🛟			
 w key#µft w iscrt522 w iscrt522 						56			_		
									•		
	🛍 粘贴	€ 添加…	🙆 刪除	🖓 重试出现故障的文	(件		⊙ 1	🔒 o 📀 o 🤞	0		
	vpload.mp4							1 文件	(27.7 MB)		

Figure 2-19 File upload

2. Backing up a file

Click Backup in the **Files** tab to back up recording files on the recording

and streaming server to a third-party server.

					🤣 Backup Option	
前 SS File List			📫 Backup Server File List			
		Show file list 1 - 20 of 23	If ← Page 0 of 0 > > > → →		File list is empty.	
File Name	Time	Duration	File Name	Time	Duration	
ff[2013-03-29-13-29-53].mp4	2013-03-29 13:32:42	2m46s 👚 😫 🖆				
doremi.mp4	2013-03-29 13:35:14	1m12s 个 🗰 😂		File list is empty.	i i	
ff[2013-03-29-13-32-44].mp4	2013-03-29 13:37:34	4m44s 个 🗰 🗐			i i	
david[2013-03-29-13-40-59].mp4	2013-03-29 13:42:23	1m18s 个 🗰 😰 🗉			l l	
david[2013-03-29-13-42-29].mp4	2013-03-29 13:45:03	2m29s 个 🗰 🗐			l l	
12[2013-03-29-13-53-23].mp4	2013-03-29 13:59:47	6m17s 个 🗰 🗐			i i	
david[2013-03-29-14-02-03].mp4	2013-03-29 14:26:21	20m22s 👚 🗰 🗳 🚽				
david[2013-03-29-14-26-52].mp4	2013-03-29 14:31:07	4m9s 👚 😫 📓				
david[2013-03-29-14-31-42].mp4	2013-03-29 15:50:58	1h18m24s 숚 🗰 📓				
david[2013-03-29-14-31-42]_001.mp4	2013-03-29 17:09:34	1h18m43s 숚 🗰 📓				
david[2013-03-29-14-31-42]_002.mp4	2013-03-29 18:25:43	1h15m53s 个 🗰 😂				
And 500 [Ch 15 h1 05 50 5105]hith	2012 02 20 10:42:11	1h17m/l2n 📥 🐸 🖾 ご				
🖩 Progress List			🗞 Log Info			
File Name	Status				l l	
	Progress list is empty.					





to configure the backup server of the current user

group.

Backup Server Option X						
Туре:	FTP 💙					
IP Addr:						
Port:	0					
Path:						
UserName:						
Password:						
Subdir:						
File System:						
Partion:	0					
Params:						
	Ok Cancel					

Figure 2-21 Backup server configuration

At present, the backup servers running FTP, Samba (CIFS), Iscsi (IP-SAN) and other protocols are supported.

For an FTP server, information about the IP address, port number, username, and password is required; for a Samba server, information about the IP address, path, username, and password is required; for an Iscsi server, information about the IP address, port number, portion number, and file system is required.

After all required information is filled up, back up local recording files to a backup server. When necessary, recording files backed up on the backup server can be restored to the local recording and streaming server.

System Log

As shown in the following diagram, the operating logs of the system can be viewed in real time in the **Log** interface. In the case of a fault, you can download and send logs to the technical support personnel for further analysis and fault location.

🕫 Templates 🔹 Tasks 💷 Files 👗 Users 💊 Log	
	😵 Refresh 🛛 😻 Download
/home/zhangjing/source/platform/src/app/streamingserver/H323ReceiveElement.cpp:338 (OnReceivePacket) - loss remote rtp packet, request FVU	·
Mon Apr 1 14:42:20 2013	
/home/zhangjing/source/platform/src/app/streamingserver/MP4WriterElement.cpp:429 (WriteRTPPacket) - (track 2) loss packet: 839, bitrate: 501444	
Mon Apr 1 14:42:25 2013	
/home/zhangjing/source/platform/src/app/streamingserver/H323ReceiveElement.cpp:338 (OnReceivePacket) - loss remote rtp packet, request FVU	
Mon Apr 1 14:42:26 2013	
/home/zhangjing/source/platform/src/app/streamingserver/MP4WriterElement.cpp:429 (WritekTPPacket) - (track 2) loss packet: 840, bitrate: 499220	
Mon Apr 1 14:42:26 2013	
mome/znangjing/source/piauomysic/app/sueamingserver/nszskeceveliement.cpp.sss (onkeceveracket) - ioss tende tip packet, request tivo	E
Mon Apr 1 14:42:26 2013 /home/shanning/source/nlatform/src/ann/streamingsouver/MP4W/riterElement cnn:429 (WritePTDPacket) - (track 2) loss nacket: 841 hitrate: 400220	
Mon Apr. 11440-128 2013	
(home/shanging/source/platform/src/app/streamingserver/H323ReceiveFlement.cpp:338 (OnReceivePacket) - loss remote rtp packet, request FVU	
Mon Apr 1 14:42:28 2013	
Interpret A transformer in the second sec	
Mon Apr 1 14:42:31 2013	
/home/zhangjing/source/platform/src/app/streamingserver/H323ReceiveElement.cpp:338 (OnReceivePacket) - loss remote rtp packet, request FVU	
Mon Apr 1 14:42:31 2013	
/home/zhangjing/source/platform/src/app/streamingserver/MP4WriterElement.cpp:429 (WriteRTPPacket) - (track 2) loss packet: 843, bitrate: 496601	
Mon Apr 1 14:42:34 2013	
/home/zhangjing/source/platform/src/app/streamingserver/H323ReceiveElement.cpp:338 (OnReceivePacket) - loss remote rtp packet, request FVU	
Mon Apr 1 14:42:34 2013	
/home/zhangjing/source/platform/src/app/streamingserver/MP4WriterElement.cpp:429 (WriteRTPPacket) - (track 2) loss packet: 844, bitrate: 496601	

Figure 2-2 System log query

2.2.9 System Information

1. Querying system information

System information that can be queried includes the system version, UI version, CPU usage, memory usage, and disk usage of the server.

						₹ (DownloadPlayer 📍	Change Password	0	Options	👔 Multi-c	levice	🥥 Quit	English	•
🏂 Templates	Tasks	🔲 Files	🐣 Users	🗞 Log	Version										
Server Version : SI UI Version : 2.9	reamingServer-	2.2.1023													🛛 🕌 Status
	30 20 0	50 60 CPU	70 80 90 100			30 20 10 0 Me	50 60 70 80 90 mor/ 100			20 10 0	40 ¹	50 60 Xisk	70 80 90 10	0	ш
RTSP Info :						📀 Refresh	HTTP Info :							📀 Refresh	
IP Address	URL			Tim	e		IP Address	URL			Tim	e			
															-
								Сор	oyright	© 2012 🤅	深圳锐取信	息技术	股份有限公	司 All Rights F	Reserved

Figure 2-23 System information query

2. Downloading a player plug-in

To ensure that files can be played in live or VOD mode, you need to download a player and install the vlc player plug-in.



Figure 2-24 Download of a player plug-in

Note: If Google Chrome is used, tick off Mozilla plugin in the Choose Components

window during the player setup, as shown in the following diagram. If not, the videos

cannot be played in Google Chrome.

🛓 VLC media player 1.0.5 Setup						
Choose Components Choose which features of VLC media player 1.0.5 you want to install.						
Check the components you want to install and uncheck the components you don't want to install. Click Next to continue.						
Select the type of install:	Custom	•				
Or, select the optional components you wish to install:	Media Player (required) Start Menu Shortcut Desktop Shortcut ActiveX plugin Discs Playback Description					
Space required: 72.1MB	The VLC Mozilla and Mozilla Firefox plugin					
VideoLAN VLC media player	< Back Next >	Cancel				

Figure 2-25 Setup of a player plug-in

Chapter III System Settings

3.1 Parameter Settings

For some special cases (for example, registration to GK), the IP address and

E164 number need to be entered. You can click ^{Options} to find the corresponding tab and enter the number and password allocated to the recording and streaming server in the corresponding entries.

Parameter Options								×
BufferPool Call Cli	DataBase	Dss	FLR	File	нттр	Log	MP4	MP4r Þ
AudioAACBw:	56							Â
FVUInterval:	10000							
H323RTPPortBase:	5000						•	E
EndPointName:	streamings	erver						
GKReregisterInterval:	0						Ə	
VideoCodec:	5						•	
VideoCodecData:								
EnableGK:								
EnableGKAuthenticator:								
RenegoMasterSlave:								
GKPassword:								
NATAddress:								
EnableVideo:								
								~
						Ok	-	Cancel

Figure 3-1 System parameter settings

Descriptions of other parameters are as follows:

Parameter	Description
GK-related	
EnableGK	Indicates whether registration to GK is enabled.
GKAddress	Indicates the GK IP address.

GKIdentifier	Indicates the GK identifier.
GKPassword	Indicates the GK registration password.
E164ID	Indicates the E164 number that is specified during
	the registration to GK.
H.323-related	
Bandwidth	Indicates the default bandwidth.
EnableAudio	Indicates that audio is enabled.
EnableVideo	Indicates that video is enabled.
EnableVideo2	Indicates that dual-stream is enabled.
EnableH239	Indicates that H.239 (related to dual-stream) is
	enabled.
EnableFECC	Indicates that FECC (remote control signaling) is
	enabled.
AudioCodec	Indicates the default audio codec.
VideoCodec	Indicates the default video codec.
Video2Codec	Indicates the default dual-stream codec.
VideoBandwidthPercent	Indicates the percentage of bandwidths occupied
	separately by video and dual streams.
FVUInterval	Indicates the interval at which video streams are
	refreshed. The value is in seconds.
FVUMinInterval	Indicates the minimum interval at which images are
	refreshed forcibly.
NATAddress	Indicates the NAT address of the external network (if
	the DMZ mapping is performed on the recording and
	streaming server).
Sniffer-related	1
SnifferInterface	Indicates the network interface through which the
	mirroring port of the switch is connected to the
	recording and streaming server. The value can be

	Eth0 or Eth1.		
LPCAddress	Indicates the IP address of the LPC module.		
Live streaming-related			
DssUseLocalTimeAsDts	Indicates whether the time at which packets arrive i		
	used as the frame time (this is because the packet		
	timestamp from some terminals is incorrect).		
DssLowLatency	Indicates whether the low-delay live streaming mode		
	is used. This parameter takes effect after the system		
	reboot.		
Recording-related			
MP4UseLocalTimeAsDts	Indicates whether the local time is used as the		
	timestamp of files in MP4 format.		
MP4InterleaveInterval	Indicates the interval at which different streams are		
	interleaved. This value cannot be changed.		
MP4SliceSize	Indicates the fragmentation size of files in MP4		
	format. This parameter is configured in case the file		
	system of the user does not support large-size file.		
Debugging-related			
EnableTrace	Enables the debugging information to contain more		
	details.		
Others			
MiscMaxTaskDuration	Indicates the maximum task duration.		
MiscTaskDebug	Displays more details about the task status.		

Table 3-1 System parameter configuration

3.2 System Upgrade

The system can be upgraded using the **Module** option in the configuration page, as shown in the following diagram.

H.323 recording and streaming server User manual

status	modules	
🖗 ip	name	operation
	psswebui	delete
module	streamingserver	delete
license		
🚨 user	modules to upload	
S time	select file	Browse
A .	upload	
v language	<u> </u>	
shutdown		
version		

Figure 3-1 System upgrade

Select a file and click **upload** for system upgrade.

Chapter IV FAQs

Q1: Why does IE fail to open the system page?

A: The system supports only IE 7.0 or a later version. If your IE version is earlier than

7.0, upgrade it to a later version.

Q2: Why images of the recorded 1080i videos cannot be played normally in VOD mode?

A: This is because 1080i uses the interlaced scan mode. The problem can be addressed by clicking the icons

Q3: Why the downloaded recording files cannot be played smoothly on the computer? A: The problem may occur if the configuration of your computer is low. Upgrade the configuration or display recording files on another computer.

Q4: Can downloaded recording files be played on other players?

A: Yes. Recording files can be played on mainstream players including QQ Video, Thunder Player, Storm Player, and Youku.

Q5: Can I use a video conferencing terminal to play recording files in VOD mode?

A: Yes. Enter the terminal address in the **General** tab of **Template Information**, untick the **Record File** option, and tick off the **VOD file** option. Alternatively, you can choose the **Auto** mode and select the recording file using the terminal remote control. After filling up template information, enable the template or use incoming calls of the terminal to play the selected recording files.

Q6: Can I convert the format of recording files?

A: Yes. You can convert the format of recording files using format conversion

software (such as Ulead VideoStudio).

Q7: Can I play recording files for dual streams separately?

A: If the **Mixer Mode** option is ticked off in the **Template** tab, recording files for dual streams will be integrated into a single file; if not, the recording files are saved and played separately.

In the following diagram, recording files for dual streams are integrated and displayed in a single window. The main and dual-stream images are of fixed sizes.



Figure 4-1 File display in mixer mode

In the following diagram, recording files for dual streams are not integrated and therefore displayed in two different windows. Sizes of the main and dual-stream images can be adjusted separately as needed. H.323 recording and streaming server User manual

🛓 双流录制两路视频流.mp4 - VLC media player 🛛 🗖 💻 💴	🚊 双流录制两路视频流.mp4 - VLC media player
媒体(M) 播放(L) 音频(A) 视频(V) 工具(T) 视图(I) 帮助(H)	媒体(M) 播放(L) 音频(A) 视频(V) 工具(T) 视图(I) 帮助(H)
	LaudMost原列产品介绍
	电视墙DVI-I输出接口
	DVI/HDMI矩阵
	RGB矩阵
	·····································
	4 · · · · · · · · · · · · · · · · · · ·
双流录制两路视频流.mp4 1.00x 00:18/02:16	双流录制两路视频流.mp4 1.00x 00:29/02:16

Figure 4-2 File display in non-mixer mode

Chapter V	Compatible Device
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Manufacturer	Туре	Model
Huawei	MCU	8650
	Terminal	9036, 9039, 9039S, 8036
ZTE	MCU	MVC8900
	Terminal	T502, T600
Polycom	MCU	MGC50, RMX1000, RMX2000
	Terminal	HDX6000, HDX7000, HDX8000, HDX9000, VSX5000, M500, M100
RadVision	MCU	Elite series (5110, 5230), SCOPIA 24
	Terminal	XT1000, XT1200, XT4000, XT5000
Aethra	Terminal	X5, X7
Lifesize	Terminal	Room 220, Team 220
Cisco	Terminal	C20, C40, C60, C90
SONY	Terminal	XG50, XG80
DVISION	Terminal	focus 3800
Aver	Terminal	HA100, HA300

Note: This table is used for reference and devices listed have passed the compatibility test.Due to limited test resources, it is impossible for us to test the compatibility of H.323 devices in all types. For devices from manufacturers not mentioned in the preceding table, you shall test whether they are compatible with the VCR recording and streaming server.