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Gaxon Equipment Central Management (WEB) System Manual

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1. System Introduction

Gaxon Central management recording system adopts B/S architecture. It backups and manages the data centrally of a variety of equipment. The system is easy to install, simple to operate and rich in functions. WEB client can work in cross-platform, cross-browser, support the smart phone and tablet to access (search, monitor and download).Users can access both centralized management services provided by the central system and query, listen, download by single device.

Gaxon recording device central management supports two kinds of networking management mode of connection:

- 1.Recording equipment has fixed IP, central management connect each single devices actively,
- 2.Central management sever has fixed IP, each single devices connect central management sever actively.

2. Operating Environment

Central management works on Windows platform using SQLite database. It does not limit the number of devices in principle. The higher of PC configuration, the better of the performance.

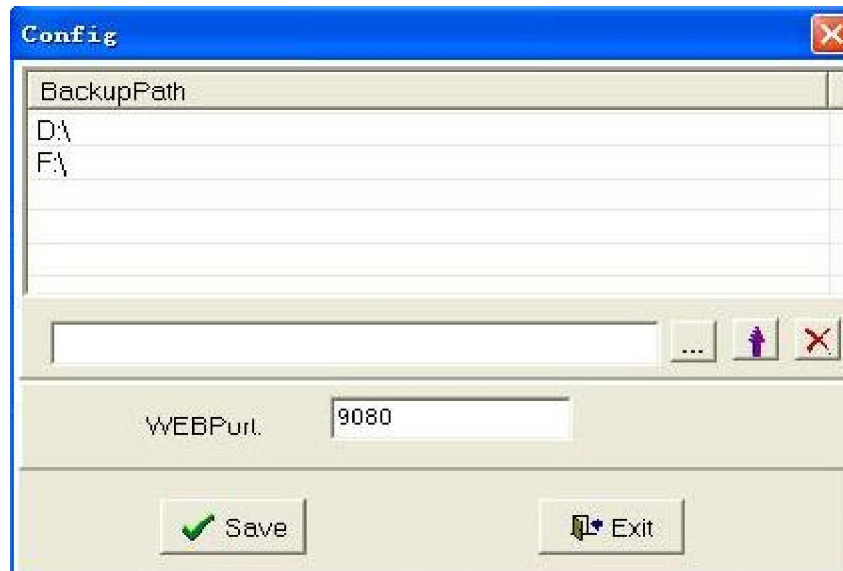
3. System Installation

Unzip the package to a directory. The system does not require any additional software installation. If for some reason, you need to reinstall the operation system. As long as the running directory and backup data directory undamaged, it would not affect the original programs and data.

4. Server software configuration and operation

4.1 Server Software Configuration

The system provides a server configuration program for the disk array configuration and WEB access port.



4.2 Running Server Software

Once the server software has been set up, you can run the server software. Server operation interface displays the device name, device IP, device port, device status, number of channels, whether to allow automatic backup, backup starting date, start time and end time of the backup everyday.

DeviceName	IP	Port	ConnectStatus	ChanNums	AutoBackup	BeginDate	BeginTime
TestDevice1	192.168.0.181	12345	Connected	4	True	2013-03-18	23:00:00
TestDevice2	192.168.0.183	12345	Connected	2	True	2013-03-18	23:00:00
TestDevice3	192.168.0.184	12345	Connected	4	True	2013-03-18	23:00:00
TestDevice4	192.168.0.185	12345	Connected	2	True	2013-03-18	23:00:00
TestDevice5	192.168.0.186	12345	Connected	2	True	2013-03-18	23:00:00
TestDevice6	192.168.0.187	12345	Disconnect		True	2013-03-18	23:00:00
TestDevice7	192.168.0.188	12345	Disconnect		True	2013-03-18	23:00:00
TestDevice8	192.168.0.189	12345	Disconnect	4	True	2013-03-18	23:00:00

5. Central Management Functions

System main functions includes user management, role management, device management, system settings, alarm management, recording search and playback, backup search and system maintenance.

5.1 User Log in

Enter the IP address in the browser address field: Port number and then “Enter”. The user name and password are both “admin”.



Once log in successfully, users can distribute the access permissions according to their needs.

5.2 System Function

(1) User management: adding users, delete users, modify users, search users and user

authorization.

(2)Role management: adding role, delete role, modify role, search role and role authorization.

(3) Device management: Adding Device, delete device and modify device.

(4)System settings: Set various alarm parameters and automatic backup parameters.

(5) Recording Search: Search based on a combination of conditions of recorded data that has been backed up. It allows playback as well.

(6)Backup Search: check the progress of the backup device on a combination of conditions.

(7)System Maintenance: Log alarm system events and user actions.

If the user log in as an administrator successfully, it will have the following interface:



5.3 User Management

User management includes adding users, deleting users, modifying user, user search and user authorization. Each user in the establishment phase must be bound with a role, each role with a range of permissions. There is corresponding access permissions since the user creation. Which devices the user can use can be managed in the user authorization in the user management.

5.4 Role Management

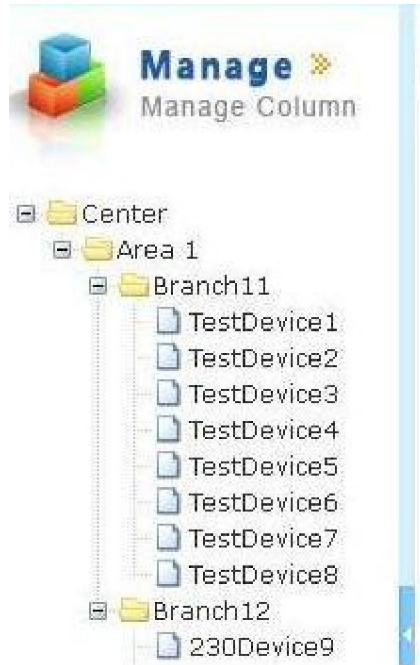
Role Management includes increasing roles, deleting roles, modifying roles, role search and role authorization. Each role can have certain privileges by authorized since the user is been established. Role Authorization is as follows:

Administrator	
Permission	
Device Manager	<input checked="" type="checkbox"/> Menu <input checked="" type="checkbox"/> Add <input checked="" type="checkbox"/> Modify <input checked="" type="checkbox"/> Delete <input checked="" type="checkbox"/> Manage <input checked="" type="checkbox"/> Right click menu
File Search	<input checked="" type="checkbox"/> Menu <input checked="" type="checkbox"/> Play <input checked="" type="checkbox"/> Download <input checked="" type="checkbox"/> Delete
Backup progress	<input checked="" type="checkbox"/> Menu <input type="checkbox"/> Dwonload
User manager	
Role	<input checked="" type="checkbox"/> Menu <input checked="" type="checkbox"/> Add <input checked="" type="checkbox"/> Modify <input checked="" type="checkbox"/> Delete <input checked="" type="checkbox"/> Authorization
User	<input checked="" type="checkbox"/> Menu <input checked="" type="checkbox"/> Add <input checked="" type="checkbox"/> Modify <input checked="" type="checkbox"/> Delete <input checked="" type="checkbox"/> Authorization
Password	<input checked="" type="checkbox"/> Menu
System	
System Setting	<input checked="" type="checkbox"/> Menu <input checked="" type="checkbox"/> Modify
System Maintain	<input checked="" type="checkbox"/> Menu <input checked="" type="checkbox"/> Delete <input checked="" type="checkbox"/> Export
Statistics	
Statistics	<input checked="" type="checkbox"/> Menu
Options: ALL Inverse Uncheck	
<input type="button" value="Save"/> <input type="button" value="Cancel"/>	

5.5 Device Management

Device management is composed of headquarters, branch, region and device on the basis of four hierarchies. It means headquarters can be made up of multi-branches, branch of multi-regions and so on. Device is associated with the physical device. You need to set the IP and port. System can display the status of channel in real time.

Device management interface is as follows. You can delete the device or increase by right click.



Device Real-Time Screen:

● Red: recording,
 ● Green: idle,
 ● Gray: disconnected,
 ● Black: unknown

Current location: Device manager > Device status

Device name: Device status: Normal Abnormal

<input type="checkbox"/>	No.	Device ID	Device name	IP Address	Connection	Channels	Channel Status
<input type="checkbox"/>	1	ID0001	TestDevice1	192.168.0.181	Successfully	4	●●●●
<input type="checkbox"/>	2	ID0002	TestDevice2	192.168.0.183	Successfully	2	●●
<input type="checkbox"/>	3	ID0003	TestDevice3	192.168.0.184	Successfully	4	●●●●
<input type="checkbox"/>	4	ID0004	TestDevice4	192.168.0.185	Successfully	2	●●
<input type="checkbox"/>	5	ID0005	TestDevice5	192.168.0.186	Successfully	2	●●
<input type="checkbox"/>	6	ID0006	TestDevice6	192.168.0.187	Failed	0	
<input type="checkbox"/>	7	ID0007	TestDevice7	192.168.0.188	Failed	0	
<input type="checkbox"/>	8	ID0008	TestDevice8	192.168.0.189	Successfully	4	●●●●

Click on a single device name or IP address of the device, can access this device directly (query, play, monitor, download file with MP3 format), as below:

Manage Manage Column

Current Location >> Channel Status

Channel	Line Number	Record Mode	Status	L/O	Phone Number	Start Time	Duration	Monitor	Voltage
1	001	Voltage	Disconnect					🔊	0
2	002	Voltage	Disconnect					🔊	0
3	003	Voltage	Disconnect					🔊	0
4	004	Voltage	Disconnect					🔊	0
5	005	Voltage	Disconnect					🔊	0
6	006	Voltage	Disconnect					🔊	0
7	007	Voltage	Disconnect					🔊	0
8	008	Voltage	Disconnect					🔊	0

5.6 System settings

System settings includes:

whether to allow the clients pop up alarm in real time,

whether to allow equipment alarm ,

whether to allow disk alarm,

whether to allow email alarm, we can set alarm via how long the system(in minutes) doesn't receive the recording files ,to alarm by how long the system(in minutes) doesn't connect with the equipment. If allow disk alarm, we can set alarm by how much M is the backup disk space less than. If allow to alarm by email, the disk alarm and equipment alarm can be sent to an appointed account.

If there are several backup disks, it can switch to another backup disk when the backup disk space is less than a certain M. Besides,

you can set on system whether to auto-save on a specific time. If the beginning time matches the end time, system would save the audio all day.

The screenshot displays the 'System Setting' interface. At the top, a blue header bar reads 'Current location: System Setting'. Below this, the 'Alarm' section is visible, containing several checkboxes and input fields. The 'Allow to popup alarm' checkbox is unchecked, while 'Allow Device Alarm', 'Allow to Alarm when hard', and 'Allow to Send Alarm Email' are checked. Input fields include 'Not Connect Device' (120), 'Not Record Time' (120), 'Hard Disk Reserved' (300 MB), 'Hard Disk Alarm Size' (800 MB), 'Smtp Server' (smtp.163.com), 'Email Address' (gxalarm@163.co), 'Email User Name' (gxalarm), 'Email Password' (masked with dots), and 'Receive Email Address' (gxalarm@163.com). A 'Several Emails sep' field is also present. Below the 'Alarm' section is the 'File Backup' section, which includes a 'Select Device' dropdown menu set to 'TestDevice1', a checked 'Allow Device Auto Backup' checkbox, 'Backup Start Date' (2013-03-18), 'Everyday Start Time' (23:00:00), and 'End Time' (23:00:00).

5.7 Recording Query

Inquiry the recording data by variety of conditions, and can play for selected recording. The conditions of recording query include start date /time, end date/time, incoming or outgoing calls, channel number, device name, the recording time, all conditions are arbitrary. The query results interface as follows.

Current location: Search > Search file

Record Start: 2014-04-18 00:00:01 End: 2014-04-18 10:38:24 I/O: ALL

Channel: ALL Line Number: Phone Number: Device name: ALL

Duration(s) More than: 00:00:01 Less than: 02:00:00

Search Play

No.	Line number	I/O	Start Time	Incoming Number	Out number	Duration	Device name	IP	Reas
1	001	In	2014-04-18 00:01:12	83746606	0123456789*01234567	00:02:02	TestDevice2	192.168.0.183	
2	002	In	2014-04-18 00:01:40	83746606	0123456789*01234567	00:02:02	TestDevice2	192.168.0.183	
3	001	In	2014-04-18 00:03:46	83746606	0123456789*01234567	00:02:02	TestDevice2	192.168.0.183	
4	002	In	2014-04-18 00:04:14	83746606	0123456789*01234567	00:02:02	TestDevice2	192.168.0.183	
5	001	In	2014-04-18 00:06:21	83746606	0123456789*01234567	00:02:02	TestDevice2	192.168.0.183	

For the inquired data, choose one line, and be played by 'play' button, as below,

Play - Mozilla Firefox

192.168.0.105:9080/PlayForm_h5.html?path=D\192.168.0.183\12345\20

File Name: D\192.168.0.183\12345\20140418\000\g-20140418-000621-000-I-0122-001-83746606-0123456789xz0123456789xzABCD.729

Channel: 4 Local No.: 4

Start Time: 2014-04-18 00:06:21 Duration: 00:02:02

Caller ID: 83746606 DTMF: 0123456789*#01234567

IO: In IP Address: 192.168.0.183

5.8 Backup query

Inquiry the progress of all equipment or appointed equipment via time zone condition query, the backup states of each equipment, including succeed download, failed download, the file is not exist, and result statistics. For the failed download files, can be downloaded to backup by hands, as follows:

Current location: Backup progress

Start Time: 2014-04-18 00:00:01 End Time: 2014-04-18 10:42:33 Device: ALL

No.	Device Name	IP	Port	File	Downloaded	failed	Not Exist	Status	Remark
1	TestDevice2	192.168.0.183	12345	509	509	0	0	100%	
2	TestDevice4	192.168.0.185	12345	488	488	0	0	100%	
3	TestDevice5	192.168.0.186	12345	483	483	0	0	100%	
4	TestDevice8	192.168.0.189	12345	840	840	0	0	100%	
5	TestDevice3	192.168.0.184	12345	508	508	0	0	100%	

Total 5 record, Page 1 of 1

First Previous Next Last

Click the equipment name or IP in the query results, can get the details of downloading, as follows

TestDevice2

Current location: Backup progress > File backup detail information

ALL download download failed files not exist

No.	Device Name	IP	If downloaded	File name
1	TestDevice2	192.168.0.183	Download ok	/sdcard/record/20140419/1/g-20140419-000145-001-I-0122-002-83746606-0123456789xz0123456789xzABCD.729
2	TestDevice2	192.168.0.183	Download ok	/sdcard/record/20140419/0/g-20140419-000207-000-I-0122-001-83746606-0123456789xz0123456789xzABCD.729
3	TestDevice2	192.168.0.183	Download ok	/sdcard/record/20140419/1/g-20140419-000420-001-I-0122-002-N-0123456789xz0123456789xzABCD.729
4	TestDevice2	192.168.0.183	Download ok	/sdcard/record/20140419/0/g-20140419-000442-000-I-0122-001-83746606-0123456789xz0123456789xzABCD.729
5	TestDevice2	192.168.0.183	Download ok	/sdcard/record/20140419/1/g-20140419-000654-001-I-0122-002-83746606-0123456789xz0123456789xzABCD.729
6	TestDevice2	192.168.0.183	Download ok	/sdcard/record/20140419/0/g-20140419-000716-000-I-0122-001-83746606-0123456789xz0123456789xzABCD.729
7	TestDevice2	192.168.0.183	Download ok	/sdcard/record/20140419/1/g-20140419-000928-001-I-0122-002-83746606-0123456789xz0123456789xzABCD.729

Total 793 Files, Current page!, Total

First Previous Next Last Turn to 2

5.9 System maintenance

The alarm events and user operating events in running can be saved up by system, so that user can better understand system daily operation, easy to maintain normal operation of the system. User can check and delete the system alarm logs and operating

logs.

Alarm logs query as follows

Current Location: System Maintain > Check Alarm logs

Alarm Log Operation

Start Time: 2014-04-18 00:00:01 End Time: 2014-04-18 10:55:40 Device Name:

Device IP: User ID: Alarm Event: Search

No.	Time	Device Name	IP	Event type	Event Name	Content
1	2014-04-18 00:00:05	TestDevice8	192.168.0.187	I	COMM	Disconnect
2	2014-04-18 00:00:08	TestDevice7	192.168.0.188	I	COMM	Disconnect
3	2014-04-18 00:00:10	230Device9	192.168.0.230	I	COMM	Disconnect
4	2014-04-18 00:00:11	TestDevice1	192.168.0.181	I	COMM	Disconnect
5	2014-04-18 00:00:29	TestDevice6	192.168.0.187	I	COMM	Disconnect
6	2014-04-18 00:00:30	TestDevice1	192.168.0.181	I	COMM	Disconnect

Operating logs query as follows,

Current Location: System Maintain > Check operation logs

Alarm Log Operation

Start Time: 2014-04-18 00:00:01 End Time: 2014-04-18 10:55:40 Device Name:

Device IP: User ID: Alarm Event: Search

No.	Time	Device Name	IP	Operator	Event Name	Content
1	2014-04-18 10:27:27			admin	Login page	Login hard disk info page.
2	2014-04-18 10:29:51			admin	Login System	Login system
3	2014-04-18 10:29:52			admin	Login page	Login hard disk info page.
4	2014-04-18 10:32:47			admin	Login Page	Login device manage page.
5	2014-04-18 10:32:55			admin	Login System	Login system
6	2014-04-18 10:32:56			admin	Login page	Login hard disk info page.
7	2014-04-18 10:32:59			admin	Login Page	Login device manage page.
8	2014-04-18 10:33:50			admin	Login Page	Login device manage page.