

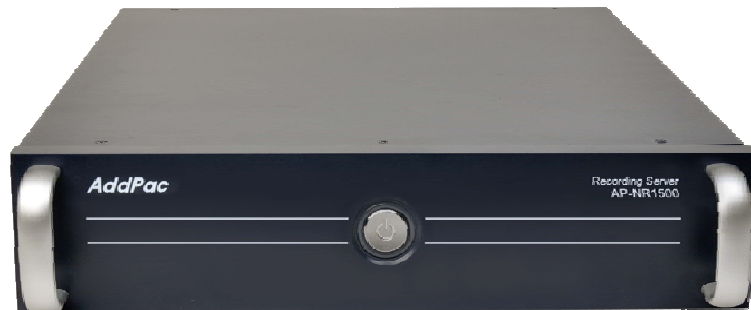


AP-NR1500

IP Video Recording Server

High-performance IP Video Recording Solution

Product Overview



AddPac

AddPac Technology

Sales and Marketing

www.addpac.com

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- Product Highlight
- Hardware Specification
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Product Overview

AP-NR1500 IP Video Recoding Server

- IP based Network Video Recording Server
- Linux Operating System
- Powerful Management and User Friendly Features
- High-performance Video Recording Service
- External AddPac Video Terminal (Ex: Video Phone) Interworking Support
- Firmware Upgradeable Architecture
- One(1) 10/100/1000Mbps Gigabit Ethernet Interface
- Up to Two(2) 3.5Inch SATA Hard Disk Interface Support
- Two(2) USB Interface Support
- One(1) RS232C Console Interface

Product Highlights

AP-NR1500 IP Video Recording Server

**Next Generation IP based
Network Voice Recording Server**

Linux Operating System for Stability

**High Performance IP Video
Recording Solution**

**Up to 2 Hard Disk Backup
(3.5 Inch SATA Hard Disk)**

**Smart Recording Manager for
AP-NR1500 Management**

**Firmware Upgradeable
Architecture**



**AddPac Video Terminal
Interworking
(Video Phone, Video
Intercom, etc)**

**APOS™ Technology
Multimedia Network Protocol**

**One(1) 10/100/1000Mbps
Gigabit Ethernet Port**

**One(1) RS232C Console Interface for
Command Line Interface**

**Two(2) USB Interface Port for
Future Extension**

Compact and Cost Effective Solution

AddPac

www.addpac.com

Hardware Specification

AP-N1500 IP Video Recording Server

- High Performance Computing Power
- Network Interface
 - One(1) 10/100/1000Mbps Gigabit Ethernet Port
- Two(2) USB 2.0 Interfaces for Mouse, Secondary Storage, etc
- One(1) RS232C Console Interface (RJ45)
- Up Two(2) SATA type Hard Disk (4~8 Tera HDD Capacity)
- Power On/Off Soft Switch with LED Indication Lamp (Front Side)

Hardware Specification

AP-NR1500 IP Video Recording Server

AP-NR1500 Front Side

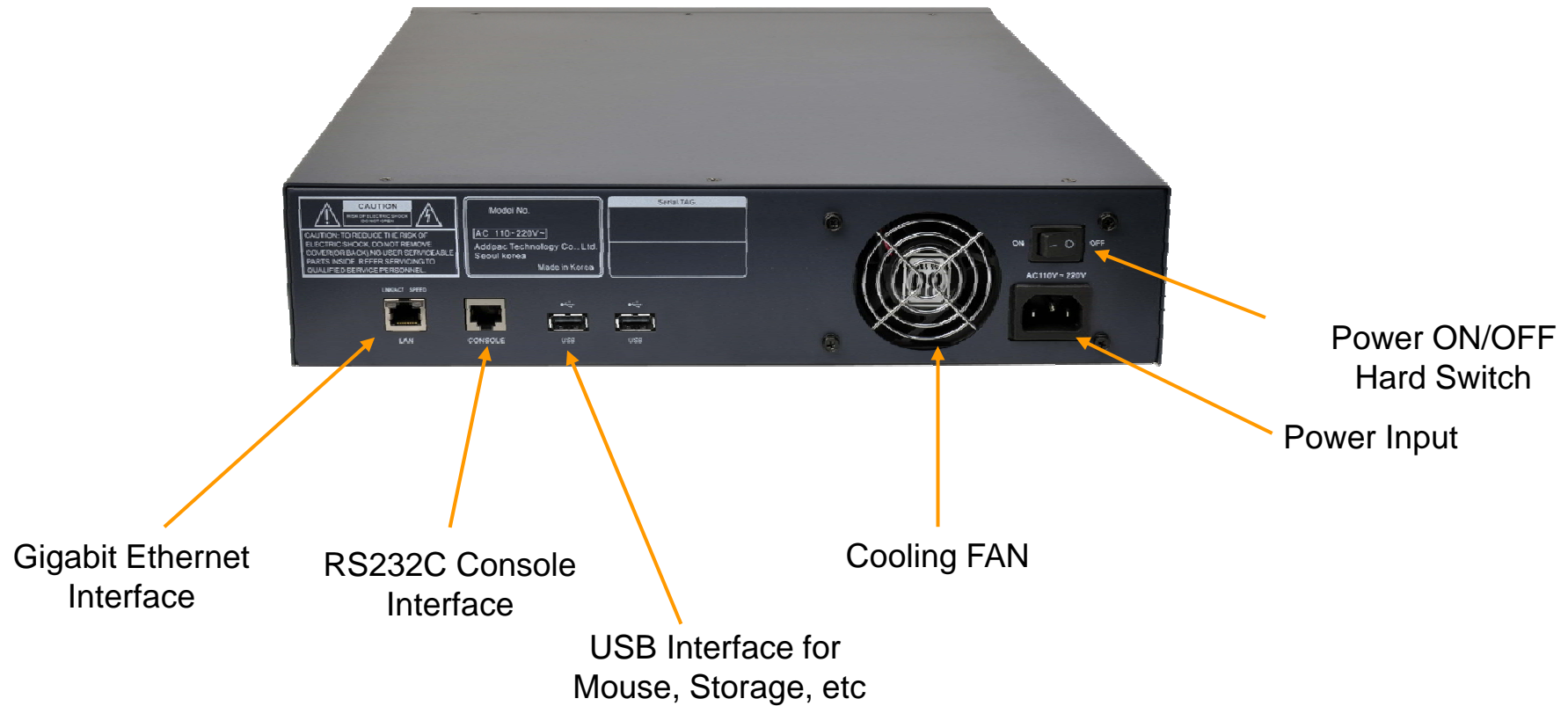


Power On/Off Switch with LED Indication LAMP

Hardware Specification

AP-NR1500 IP Video Recording Server

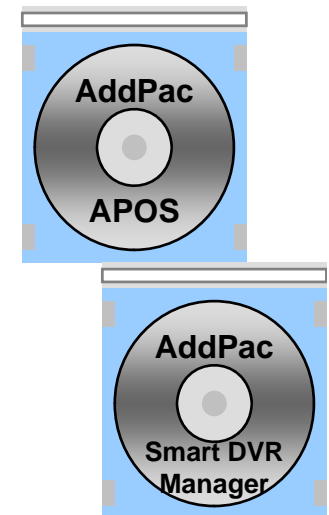
AP-NR1500 Back Side



Software Service

AP-NR1500 IP Video Recording Server

- **Built-in AddPac Internetworking Software**
 - Scalability, Functionality, and Stability Features
 - Advanced Network Video Recording & Live Streaming Features
- **Firmware Upgradeable Architecture**
- **Industry Standard Network Protocol Features**
- **Highly User Friendly Management Features**
 - PC based Window Program
 - Smart Recording Manager



Smart Recording Manager Program

AP-NR1500 IP Video Recording Server

- User Management (registration/modify/delete/search)
- Recording Server Management
- Recording File Management
- Recording File Play with VLC application
- Export Recording History to File(EXEL)
- Live Call Monitoring (Play)
- Event Management
- Recording Board Management
- Smart Recording File Manager

User Management

Smart Recording Manager

File Record Management Advanced Configuration Help

Smart Recording Manager AddPac Technology

Users [NR5000:172.17.50.200]

User Name	ID	Level	Description
root	root	Administrator	System Administrator
Administrator	administrator	Administrator	Addpac Administrator

Status

Status	Server	Session
+	NR5000(172.17. ...	0

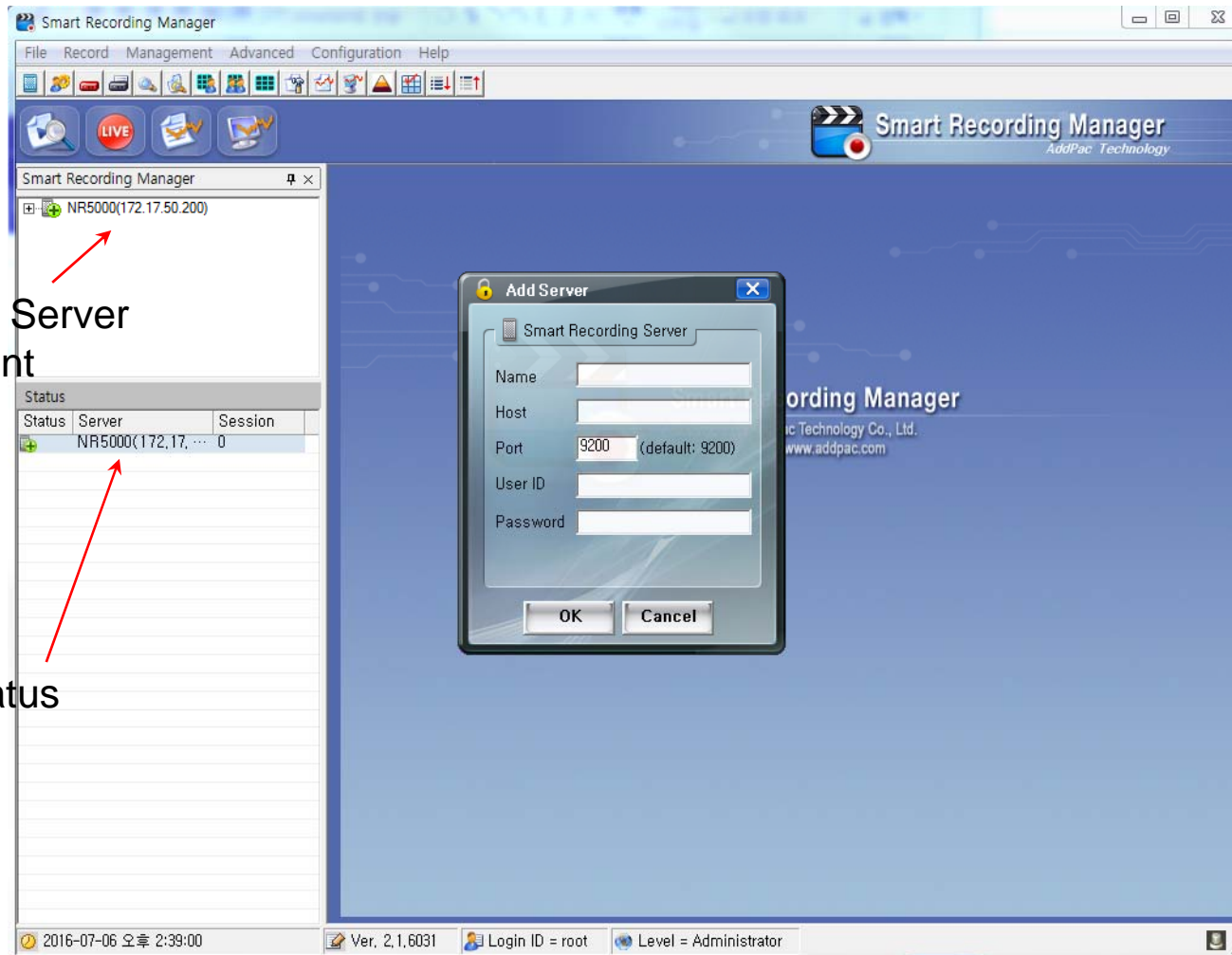
2016-07-06 오후 2:44:40 Ver. 2.1.6031 User Id = root Level = Administrator

New Manager Registration

Manager Information Modification

Manager Delete

Recording Server Management



*Recording Server Management

*Server Status Information

Recording Server Status Monitoring

The screenshot displays the Smart Recording Manager interface. The main window shows the server status for NR5000(172.17.50.200) as 'SmartRecording Server is running.' A configuration window for 'Client Session List' is open, showing settings for 'Max Session' (10) and 'Keep Alive Interval' (5 sec). A 'Client List' window is also open, displaying a table of active sessions. A red arrow points to the first row of the table, which is highlighted in blue.

No.	User	IP Address	Port	Access Time	Duration
1	root	172.16.1.19	49988	2016-07-06 14:42:00	00:07:34

Recording File Management

The screenshot displays the Smart Recording Manager interface. The main window shows a search results table with columns: No., Call ID, Source IP, Rec StartTime, Rec EndTime, Rec Duration, Call Duration, Calling Num, Calling User, and Called Num. A red arrow points from the 'Record Search' menu item in the left sidebar to the search filter dialog box.

Search Filter Dialog Box:

- Record Time: Start Time: 2016-07-05 00:00:00, End Time: 2016-07-06 23:59:59
- Filter section with 5 rows:

Filter Name	Rule	Search	<Blank>
<Blank>	IsExactly		<Blank>
<Blank>	IsExactly		<Blank>
<Blank>	IsExactly		<Blank>
<Blank>	IsExactly		<Blank>
<Blank>	IsExactly		<Blank>
- Buttons: OK, Cancel
- Checkbox: Recording Service Unavailable Files (not G711U codec)
- Note: * It may take a long time.

Main Table Data (Partial):

No.	Call ID	Source IP	Rec StartTime	Rec EndTime	Rec Duration	Call Duration	Calling Num	Calling User	Called Num
2	3	172.16.9.29	2016-07-05 10:30:16	2016-07-05 10:30:16	00:00:00	00:00:01	1000		3000
2	3	172.16.9.29	2016-07-05 12:47:45	2016-07-05 12:47:45	00:00:00	00:01:00	1000		3000
3	6	172.16.9.29	2016-07-05 12:50:28	2016-07-05 12:50:28	00:00:00	00:00:00	1000		3001
4	7	172.16.9.29	2016-07-05 12:50:40	2016-07-05 12:50:40	00:00:00	00:00:16	1000		3001
5	9	172.16.9.29	2016-07-05 12:51:05	2016-07-05 12:51:05	00:00:00	00:02:03	1000		3001
6	10	172.16.9.29	2016-07-05 12:51:09	2016-07-05 12:51:09	00:00:00	00:01:05	1000		3000
7	12	172.16.9.29	2016-07-05 12:53:09	2016-07-05 12:53:09	00:00:00	00:01:03	1000		3001
8	14	172.16.9.29	2016-07-05 14:10:01	2016-07-05 14:10:01	00:00:00	00:00:43	1000		3001
9	15	172.16.9.29	2016-07-05 14:11:27	2016-07-05 14:11:27	00:00:00	00:01:02	1000		3001
10	16	172.16.9.29	2016-07-05 14:12:42	2016-07-05 14:12:42	00:00:00	00:00:11	1000		3001
11	17	172.16.9.29	2016-07-05 14:13:03	2016-07-05 14:13:03	00:00:00	00:00:13	1000		3001
12	18	172.16.9.29	2016-07-05 14:13:24	2016-07-05 14:13:24	00:00:00	00:00:10	1000		3001
13	19	172.16.9.29	2016-07-05 16:53:52	2016-07-05 16:53:54	00:00:02	00:37:33	1000		3001
15	17:36:21				00:00:00	00:00:05	1000		3001
15	17:39:37				00:00:00	00:00:22	1000		3001
15	17:42:57				00:00:00	00:00:37	1000		3001
15	17:48:28				00:00:00	00:00:16	1000		3001
15	18:00:25				00:00:35	00:00:39	1000		3001
16	09:23:08				00:00:13	00:00:19	1000		3001
16	09:31:32				00:02:13	00:02:18	1000		3001
16	09:47:12				00:00:00	00:00:00	1000		3001
16	09:48:11				00:00:46	00:00:49	1000		3000
16	09:49:08				00:00:43	00:00:46	1000		3000
16	09:51:31				00:00:14	00:00:17	1000		3000
16	10:42:17				00:00:14	00:00:15	1000		3000
16	13:46:19				00:00:04	00:00:06	1000		3000

Recording File Play with VLC application

The screenshot displays the Smart Recording Manager application interface. The main window shows a list of recordings with the following data:

No.	Call ID	Source IP	Rec StartTime	Rec EndTime	Rec Duration	Call Duration	Calling Num	Ca
1	25	172.16.9.29	2016-07-06 09:22:55	2016-07-06 09:23:08	00:00:13	00:00:19	1000	
2	26	172.16.9.29	2016-07-06 09:29:19	2016-07-06 09:31:32	00:02:13	00:02:18	1000	
3	27	172.16.9.29	2016-07-06 09:47:12	2016-07-06 09:47:12	00:00:00	00:00:00	1000	
4	28	172.16.9.29	2016-07-06 09:47:25	2016-07-06 09:48:11	00:00:46	00:00:49	1000	
5	29	172.16.9.29	2016-07-06 09:48:25	2016-07-06 09:49:08	00:00:43	00:00:46	1000	
6	30	172.16.9.29	2016-07-06 09:51:17	2016-07-06 09:51:31	00:00:14	00:00:17	1000	
7	31	172.16.9.29	2016-07-06 10:42:03	2016-07-06 10:42:17	00:00:14	00:00:15	1000	
8	1	172.16.9.29	2016-07-06 13:46:15	2016-07-06 13:46:19	00:00:04	00:00:06	1000	
9	3	172.16.9.29	2016-07-06 15:13:06	2016-07-06 16:42:14	01:29:08	01:29:12	1000	
10	4	172.16.9.29	2016-07-06 16:42:24	2016-07-06 16:42:37	00:00:13	00:00:11	1000	
11	5	172.16.9.29	2016-07-06 16:42:45	2016-07-06 16:43:09	00:00:24	00:00:25	1000	
12	6	172.16.9.29	2016-07-06 16:43:26	2016-07-06 16:44:02	00:00:36	00:00:38	1000	

Two video playback windows are shown below the main interface:

- The left window, titled "2016-07-06 16:43:26", shows a video frame of a woman in an office setting.
- The right window, titled "AddPac Technology - 0000620160706074326-000041--M.avi - ...", shows a video frame of a man in an office setting. The VLC playback controls at the bottom indicate the video is at 00:03 of a 00:36 duration.

At the bottom left, the "AddPac" logo is visible. At the bottom center, the website "www.addpac.com" is partially visible. At the bottom right, the page number "14" is displayed.

Live Call Monitoring

The screenshot displays the Smart Recording Manager interface. At the top, there is a menu bar with options: File, Record, Management, Advanced, Configuration, and Help. Below the menu is a toolbar with various icons, including a prominent red 'LIVE' button. The main area features a table of recorded calls and two video player windows.

No.	Call ID	Source IP	Rec StartTime	Initiated Time	Call Duration	Calling Num	Calling User	Called Num	Called User	AI
1	25	172.16.9.29	2016-07-06 09:22:55	2016-07-06 09:23:08	00:00:13	1000		3001		
2	26	172.16.9.29	2016-07-06 09:29:19	2016-07-06 09:31:32	00:02:13	1000		3001		
3	27	172.16.9.29	2016-07-06 09:47:12	2016-07-06 09:47:12	00:00:00	1000		3001		
4	28	172.16.9.29	2016-07-06 09:47:25	2016-07-06 09:48:11	00:00:46	1000		3000		
5	29	172.16.9.29	2016-07-06 09:48:25	2016-07-06 09:49:08	00:00:43	1000		3000		
6	30	172.16.9.29	2016-07-06 09:51:17	2016-07-06 09:51:31	00:00:14	1000		3000		
7	31	172.16.9.29	2016-07-06 10:42:03	2016-07-06 10:42:17	00:00:14	1000		3000		
8	1	172.16.9.29	2016-07-06 13:46:15	2016-07-06 13:46:19	00:00:04	1000		3000		

Below the table, there are two video player windows. The left window shows a man in a white shirt and tie, and the right window shows a woman with glasses in an office setting. Both windows have a VLC media player interface with playback controls and a volume indicator.

Export Recording History

Smart Recording Manager - [Record Search [NR5000:172.17.50.200]]

File Record Management Advanced Configuration Help

Smart Recording Manager

NR5000(172.17.50.200)

- User Management
- Device Management
- Recording Management
- Record Search
- Record Session
- Recording Board
- Event & Monitoring
- System Management

Status

Status	Server	Session
+	NR5000(172.17. ...	0

No.	Call ID	Source IP	Rec StartTime	Rec EndTime
1	2	172.16.9.29	2016-07-05 10:30:16	2016-07-05 10:30:16
2	3	172.16.9.29	2016-07-05 12:47:45	2016-07-05 12:47:45
3	6	172.16.9.29	2016-07-05 12:50:28	2016-07-05 12:50:28
4	7	172.16.9.29	2016-07-05 12:50:40	2016-07-05 12:50:40
5	9	172.16.9.29	2016-07-05 12:51:05	2016-07-05 12:51:05
6	10	172.16.9.29	2016-07-05 12:51:09	2016-07-05 12:51:09
7	12	172.16.9.29	2016-07-05 12:53:09	2016-07-05 12:53:09
8	14	172.16.9.29	2016-07-05 14:10:01	2016-07-05 14:10:01
9	15	172.16.9.29	2016-07-05 14:11:27	2016-07-05 14:11:27
10	16	172.16.9.29	2016-07-05 14:12:42	2016-07-05 14:12:42
11	17	172.16.9.29	2016-07-05 14:13:03	2016-07-05 14:13:03
12	18	172.16.9.29	2016-07-05 14:13:24	2016-07-05 14:13:24
13	19	172.16.9.29	2016-07-05 16:53:52	2016-07-05 16:53:52
14	20	172.16.9.29	2016-07-05 16:53:52	2016-07-05 16:53:52
15	21	172.16.9.29	2016-07-05 16:53:52	2016-07-05 16:53:52
16	22	172.16.9.29	2016-07-05 16:53:52	2016-07-05 16:53:52
17	23	172.16.9.29	2016-07-05 17:48:28	2016-07-05 17:48:28
18	24	172.16.9.29	2016-07-05 17:59:50	2016-07-05 18:00:25
19	25	172.16.9.29	2016-07-06 09:22:55	2016-07-06 09:23:08
20	26	172.16.9.29	2016-07-06 09:29:19	2016-07-06 09:31:32
21	27	172.16.9.29	2016-07-06 09:47:12	2016-07-06 09:47:12
22	28	172.16.9.29	2016-07-06 09:47:25	2016-07-06 09:48:11
23	29	172.16.9.29	2016-07-06 09:48:25	2016-07-06 09:49:08
24	30	172.16.9.29	2016-07-06 09:51:17	2016-07-06 09:51:31
25	31	172.16.9.29	2016-07-06 10:42:03	2016-07-06 10:42:17
26	1	172.16.9.29	2016-07-06 13:46:15	2016-07-06 13:46:19

Records Exporting !!! ... Cancel

73%

다름 이름으로 저장

Recording > srms > trunk > srms > bin > Debug >

이름: bin

수정된 날짜: 2016-06-20 오전...

유형: 파일 폴더

board

bookmark

download

fm

sound

lib

obj

Properties

res

파일 이름(으): Records.xls

파일 형식(으): Excel Files (*.xls)

저장(S)

취소

Records - Microsoft Excel

Export Date: 2016-07-06 오후 2:53:25

Export Count: 26

Record Date: 2016-07-05 오전 12:00:00 - 2016-07-06 오후 11:59:59

Call ID	Source IP	Record Start Time	Record End Time	Record Di	Call Durat	Calling N	Calling U	Calling S	Called Nu	Called Us	Called Slot/Port/Chann
2	172.16.9.29	2016-07-05 10:30	2016-07-05 10:30	00:00	00:00	1000	3001	0/0/0	0/0/0	0/0/0	
3	172.16.9.29	2016-07-05 12:47	2016-07-05 12:47	00:00	00:00	1000	3001	0/0/0	0/0/0	0/0/0	
6	172.16.9.29	2016-07-05 12:50	2016-07-05 12:50	00:00	00:00	1000	3001	0/0/0	0/0/0	0/0/0	
7	172.16.9.29	2016-07-05 12:50	2016-07-05 12:50	00:00	00:00	1000	3001	0/0/0	0/0/0	0/0/0	
9	172.16.9.29	2016-07-05 12:51	2016-07-05 12:51	00:00	00:00	1000	3001	0/0/0	0/0/0	0/0/0	
10	172.16.9.29	2016-07-05 12:51	2016-07-05 12:51	00:00	00:00	1000	3001	0/0/0	0/0/0	0/0/0	
12	172.16.9.29	2016-07-05 12:53	2016-07-05 12:53	00:00	00:00	1000	3001	0/0/0	0/0/0	0/0/0	
14	172.16.9.29	2016-07-05 14:10	2016-07-05 14:10	00:00	00:00	1000	3001	0/0/0	0/0/0	0/0/0	
15	172.16.9.29	2016-07-05 14:11	2016-07-05 14:11	00:00	00:00	1000	3001	0/0/0	0/0/0	0/0/0	
16	172.16.9.29	2016-07-05 14:12	2016-07-05 14:12	00:00	00:00	1000	3001	0/0/0	0/0/0	0/0/0	
17	172.16.9.29	2016-07-05 14:13	2016-07-05 14:13	00:00	00:00	1000	3001	0/0/0	0/0/0	0/0/0	
18	172.16.9.29	2016-07-05 14:13	2016-07-05 14:13	00:00	00:00	1000	3001	0/0/0	0/0/0	0/0/0	
19	172.16.9.29	2016-07-05 16:53	2016-07-05 16:53	00:00	00:00	1000	3001	0/0/0	0/0/0	0/0/0	
20	172.16.9.29	2016-07-05 17:36	2016-07-05 17:36	00:00	00:00	1000	3001	0/0/0	0/0/0	0/0/0	
21	172.16.9.29	2016-07-05 17:39	2016-07-05 17:39	00:00	00:00	1000	3001	0/0/0	0/0/0	0/0/0	
22	172.16.9.29	2016-07-05 17:42	2016-07-05 17:42	00:00	00:00	1000	3001	0/0/0	0/0/0	0/0/0	
23	172.16.9.29	2016-07-05 17:48	2016-07-05 17:48	00:00	00:00	1000	3001	0/0/0	0/0/0	0/0/0	
24	172.16.9.29	2016-07-05 17:59	2016-07-05 18:00	00:00	00:00	1000	3001	0/0/0	0/0/0	0/0/0	
25	172.16.9.29	2016-07-06 09:22	2016-07-06 09:23	00:00	00:00	1000	3001	0/0/0	0/0/0	0/0/0	
26	172.16.9.29	2016-07-06 09:29	2016-07-06 09:31	00:00	00:00	1000	3001	0/0/0	0/0/0	0/0/0	
27	172.16.9.29	2016-07-06 09:47	2016-07-06 09:47	00:00	00:00	1000	3001	0/0/0	0/0/0	0/0/0	
28	172.16.9.29	2016-07-06 09:47	2016-07-06 09:48	00:00	00:00	1000	3001	0/0/0	0/0/0	0/0/0	
29	172.16.9.29	2016-07-06 09:48	2016-07-06 09:49	00:00	00:00	1000	3001	0/0/0	0/0/0	0/0/0	

2016-07-06 오후 2:53:25

Ver. 2.1,6031

User Id = root

Level = Administrator

www.addpac.com

Event Configuration

Smart Recording Manager

File Record Management Advanced Configuration Help

Smart Recording Manager

NR5000(172.17.50.200)

- User Management
- Device Management
- Recording Management
- Recording Board
- Event & Monitoring
 - Event Configuration
 - Event Monitoring
 - System Monitoring

Status

Status	Server	Session
+	NR5000(172.17. ...	0

Event Configuration [NR5000:172.17.50.200]

Event Source

Listen Port : 514

1. Emergency
The presence of a condition that has either caused the system to become unstable or has crashed the system.

2. Error
Error events are warnings of conditions that will affect the performance of the MX.

Event Filter

* Set event filter for source.

Select / Deselect All

Category	Severity	Description
<input type="checkbox"/> recording	Warning	recording
<input type="checkbox"/> play	Warning	play
<input type="checkbox"/> system	Warning	system

OK Cancel

event level filter settings

2016-07-06 오후 3:06:48 Ver. 2.1.6031 User Id = root Level = Administrator

Event Management (Monitoring)

The screenshot displays the Smart Recording Manager interface. The main window title is "Smart Recording Manager - [Record Session [NR5000:172.17.50.200]]". The interface includes a menu bar (File, Record, Management, Advanced, Configuration, Help) and a toolbar with various icons. A sidebar on the left shows a tree view with categories like User Management, Device Management, Recording Management, Recording Board, Event & Monitoring, Event Configuration, Event Monitoring, and System Monitoring. The "Event Monitoring" option is selected. The main area features a "Refresh Interval" set to 10 seconds and an "Apply" button. Below this is a table with the following data:

No.	Call ID	Source IP	Rec StartTime	Initiated Time	Established Time	Call Duration	Calling
1	3	172.16.9.29	2016-07-06 15:13:06	2016-07-07 00:07:38	2016-07-07 00:07:38	00:02:59	1000

Below the table is a "Status" section with a table showing "Server" and "Session" information. At the bottom, there is an "Event Monitoring" log window with the following data:

DateTime	Host	Severity	Module	Description
Jul 06 06:13:06	172.17.50.200	Informational	recording	Start Recording, bind id:-10000
Jul 06 06:15:31	172.17.50.200	Debug	system	get current recording session :
Jul 06 06:15:33	172.17.50.200	Debug	system	get current recording session :
Jul 06 06:15:43	172.17.50.200	Debug	system	get current recording session :
Jul 06 06:15:55	172.17.50.200	Debug	system	get current recording session :
Jul 06 06:16:05	172.17.50.200	Debug	system	get current recording session :

Red arrows point to the "Event monitoring" label in the sidebar, the "Pause event" button in the main area, and the "Event filter" label in the main area. The bottom status bar shows the date and time "2016-07-06 오후 3:12:38", version "Ver. 2.1,6031", user "User Id = root", and level "Level = Administrator".

Event Management (System Monitoring)

The screenshot displays the Smart Recording Manager interface with the following components:

- Left Panel:** A tree view showing the system hierarchy: NR5000(172.17.50.200) > User Management > Device Management > Recording Management > Recording Board > Event & Monitoring > Event Configuration > Event Monitoring > System Monitoring > System Management.
- Status Table:**

Status	Server	Session
+	NR5000(172,17,...	1
- System Monitoring Dashboards:**
 - CPU Usage:** A gauge showing 0% usage.
 - CPU Usage History:** A line graph showing 0% usage over time.
 - Memory Usage:** A gauge showing 1501 MB usage.
 - Memory Usage History:** A line graph showing memory usage over time.
 - Transcoding Usage:** A gauge showing Max: 0 and 0 usage.
 - Transcoding Channel History:** A line graph showing transcoding channel usage over time.
 - Database(/) Usage:** A gauge showing 10 usage.
 - HDD Usage:** A table showing usage for Database(/), Hdd0(/boot), and Hdd1(/home).
- System Information:** Ver. 2,1,6031, User Id = root, Level = Administrator.

cpu usage (%)

memory usage

transcoding monitoring

Storage usage

Recording Board

(User)

The screenshot displays the 'Smart Recording Manager' application window. The title bar reads 'Smart Recording Manager - [Users [NR5000:172.17.50.200]]'. The menu bar includes 'File', 'Record', 'Management', 'Advanced', 'Configuration', and 'Help'. The interface features a sidebar with a tree view containing categories like 'User Management', 'Device Management', 'Recording Management', 'Recording Board', 'Users', 'Groups', 'Map List', 'Event & Monitoring', and 'System Management'. The 'Recording Board' section is active, showing a table of users. The table has columns for 'No.', 'User ID', 'Name', 'Phone Number', 'Description', and 'Group'. The data rows are as follows:

No.	User ID	Name	Phone Number	Description	Group
1	bgchoi	Choi Byung Koo	1024		Signaling
2	jhkwon	Kwon	3000		NMS
3	jschoi	Choi Jin suk	1007		NMS
4	ohs	Oh hyung suk	1000		Signaling
5	sklee	Lee sang kyun	1009		Signaling

Below the table is a 'Status' section with a small table:

Status	Server	Session
+	NR5000(172.17, ...	1

The bottom status bar shows the date and time '2016-07-06 오후 3:25:38', version 'Ver. 2.1.6031', user 'User Id = root', and level 'Level = Administrator'.

Recording Board (Group)

The screenshot displays the Smart Recording Manager application window. The main interface shows a tree view on the left with 'Recording Board' selected. A table in the center lists recording items:

No.	Name	Description
1	NMS	
2	Signaling	

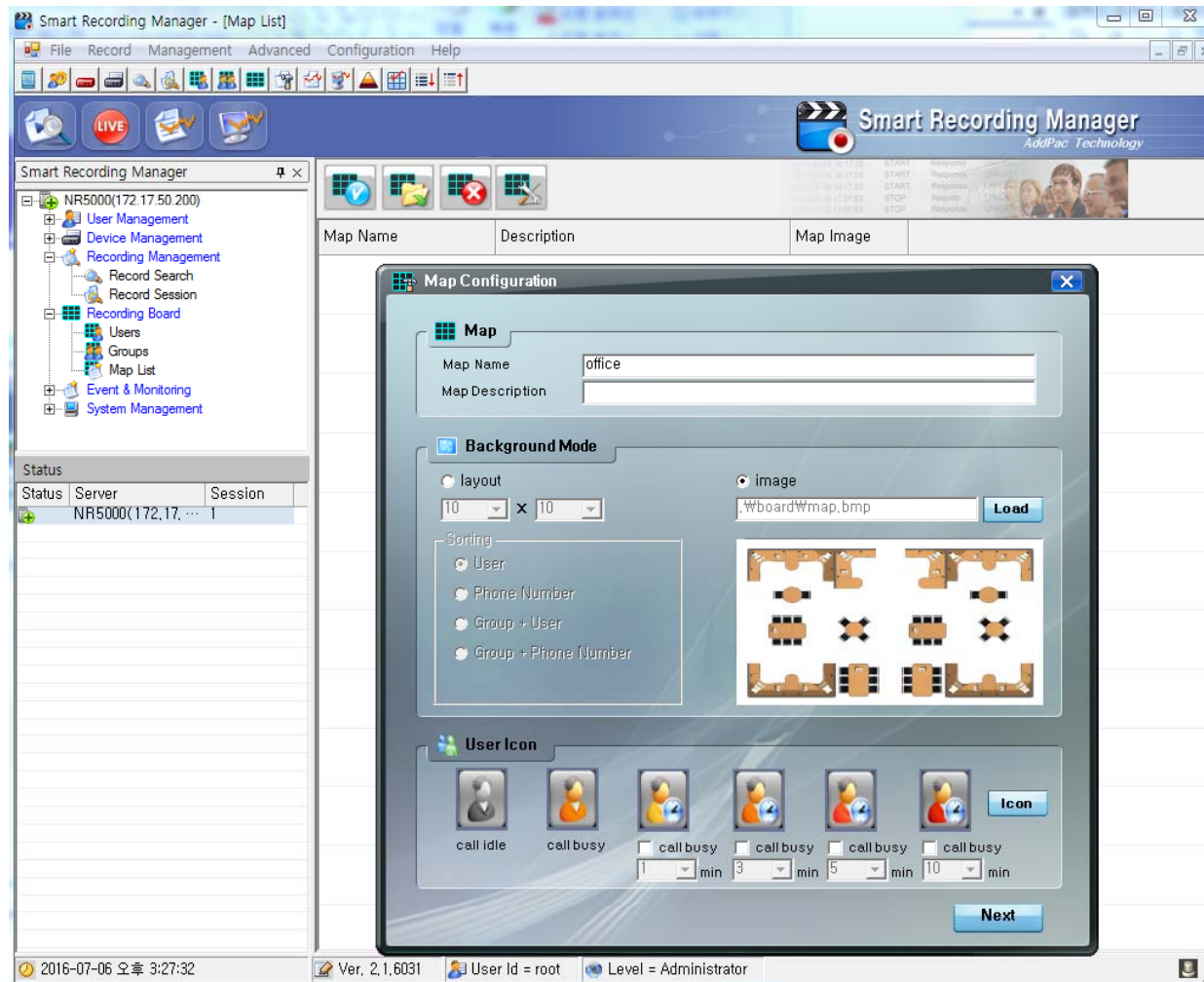
A 'Group Properties' dialog box is open, showing the 'Signaling' group. It includes a 'Users' table and a 'Users in Group' table:

Users		
User ID	Name	Phone Number

Users in Group		
User ID	Name	Phone Number
bgchoi	Choi Byu...	1024
ohs	Oh hyung...	1000
sklee	Lee sang...	1009

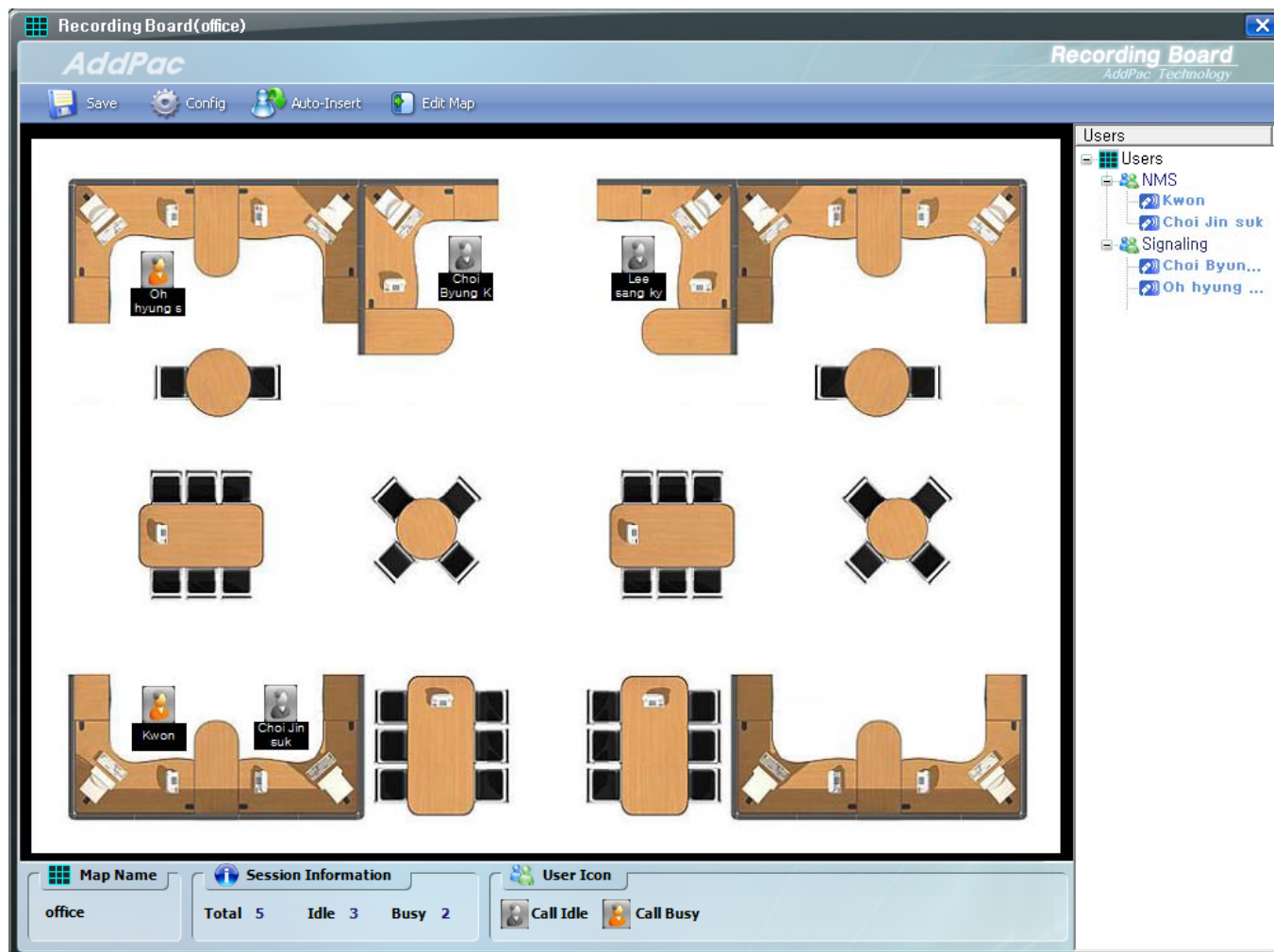
The status bar at the bottom shows the date and time (2016-07-06 오후 3:26:00), version (Ver. 2.1.6031), user (User Id = root), and level (Level = Administrator).

Recording Board (Map)



Recording Board

(Map Editing and user monitoring)



Smart Recording File Manager

(Recorded Call List Search)

The screenshot displays the 'Smart Recording File Manager' application window. The interface includes a menu bar (File, Management, Help), a toolbar with icons, and a main search area. The search target is set to 'Local Database', with search criteria for 'Start' (2016년 1월 1일) and 'End' (2016년 7월 6일). The search results are displayed in a table with columns: Start Time, End Time, Duration, Calling Number, Calling User, Called Number, Called User, and Recording Source. A tree view on the left shows the directory structure for 'Remote Database (172.17.50.200)' and 'Local Database', with folders for years (2016) and months (06, 07). Red arrows point from text labels to specific parts of the interface: 'Server Recording History (Year/Month/Day)' points to the tree view, 'Backup PC Recording History (Year/Month/Day)' points to the 'Local Database' tree view, and 'Searched Recording History' points to the search results table.

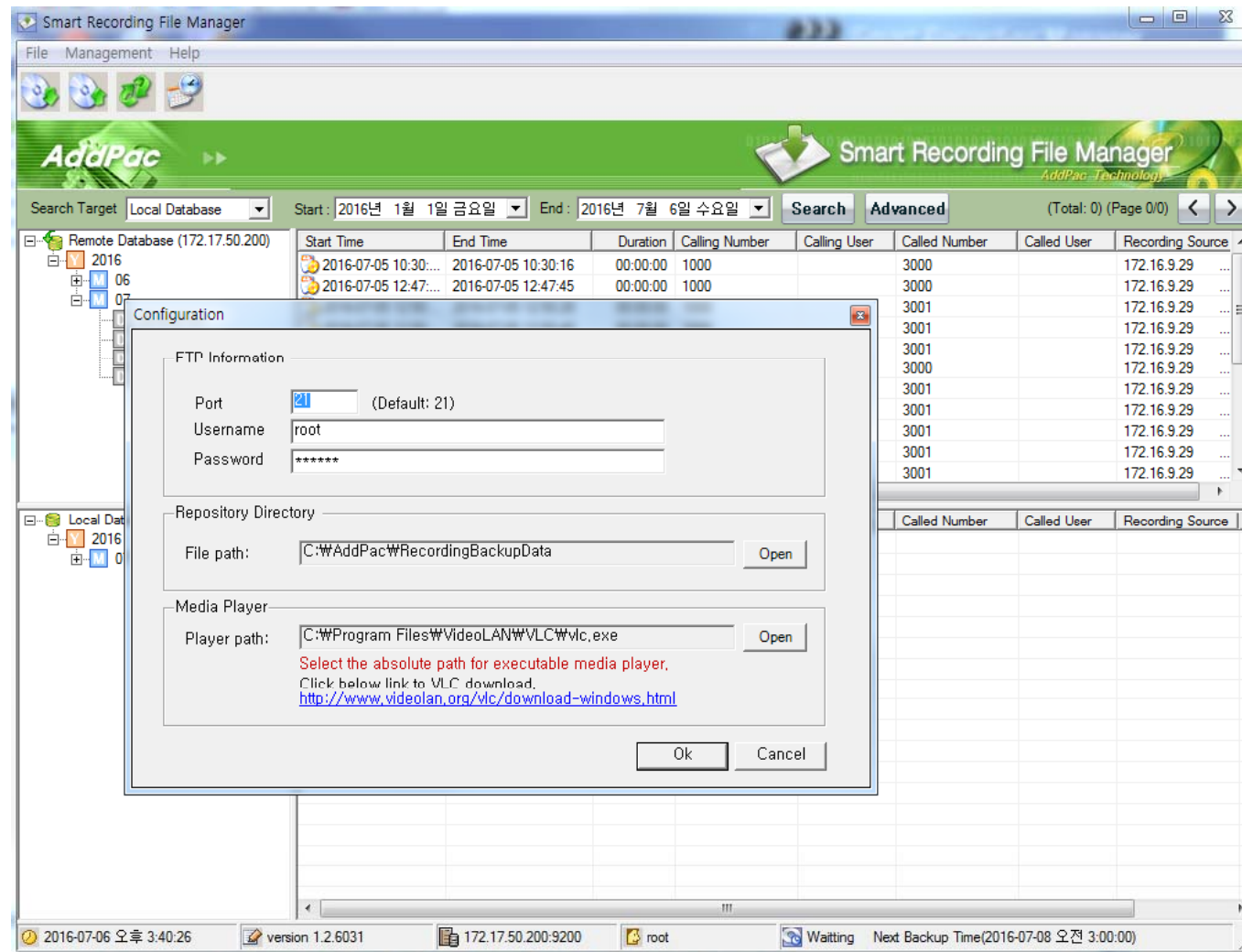
Start Time	End Time	Duration	Calling Number	Calling User	Called Number	Called User	Recording Source
2016-07-05 10:30:...	2016-07-05 10:30:16	00:00:00	1000		3000		172.16.9.29 ...
2016-07-05 12:47:...	2016-07-05 12:47:45	00:00:00	1000		3000		172.16.9.29 ...
2016-07-05 12:50:...	2016-07-05 12:50:28	00:00:00	1000		3001		172.16.9.29 ...
2016-07-05 12:50:...	2016-07-05 12:50:40	00:00:00	1000		3001		172.16.9.29 ...
2016-07-05 12:51:...	2016-07-05 12:51:05	00:00:00	1000		3001		172.16.9.29 ...
2016-07-05 12:51:...	2016-07-05 12:51:09	00:00:00	1000		3000		172.16.9.29 ...
2016-07-05 12:53:...	2016-07-05 12:53:09	00:00:00	1000		3001		172.16.9.29 ...
2016-07-05 14:10:...	2016-07-05 14:10:01	00:00:00	1000		3001		172.16.9.29 ...
2016-07-05 14:11:...	2016-07-05 14:11:27	00:00:00	1000		3001		172.16.9.29 ...
2016-07-05 14:12:...	2016-07-05 14:12:42	00:00:00	1000		3001		172.16.9.29 ...
2016-07-05 14:13:...	2016-07-05 14:13:03	00:00:00	1000		3001		172.16.9.29 ...

Server Recording History
(Year/Month/Day)

Backup PC Recording History
(Year/Month/Day)

Searched Recording History

Smart Recording File Manager (Configuration)



Smart Recording File Manager

(Call List Properties)

The screenshot displays the Smart Recording File Manager interface. The main window shows a search results table for a remote database. A context menu is open over a selected row, with the 'Properties' option highlighted. A 'Recording Session Information' dialog box is also open, showing details for two recording sessions.

Start Time	End Time	Duration	Calling Number	Calling User	Called Number	Called User	Recording Source
2016-07-05 10:30:...	2016-07-05 10:30:16	00:00:00	1000		3000		172.16.9.29 ...
2016-07-05 12:47:...	2016-07-05 12:47:45	00:00:00	1000		3000		172.16.9.29 ...
2016-07-05 12:50:...	2016-07-05 12:50:28	00:00:00	1000		3001		172.16.9.29 ...
2016-07-05		00:00:00	1000		3001		172.16.9.29 ...
2016-07-05		00:00:00	1000		3001		172.16.9.29 ...
2016-07-05		00:00:00	1000		3000		172.16.9.29 ...
2016-07-05		00:00:00	1000		3001		172.16.9.29 ...
2016-07-05		00:00:00	1000		3001		172.16.9.29 ...
2016-07-05		00:00:00	1000		3001		172.16.9.29 ...
2016-07-05 14:12:...	2016-07-05 14:12:42	00:00:00	1000		3001		172.16.9.29 ...
2016-07-05 14:13:...							

Start Time	Filename	Start Time	End Time	Duration	Size	Audio Codec	Transcoding Codec
	40003020160706005117...	2016-07-06 09:51:17	2016-07-06 09:51:31	00:00:14	1,763 KB	G711U	G711U
	0003020160706005117...	2016-07-06 09:51:17	2016-07-06 09:51:31	00:00:14	1,763 KB	G711U	G711U

Smart Recording File Manager

(Server to Local Backup)

The screenshot displays the Smart Recording File Manager application. A 'Download' dialog box is open, showing a list of 16 files to be downloaded from a remote database to a local backup directory. The dialog includes a table with columns for File Name, Duration, Size, DateTime, and Status. Below the table, it shows the download directory path and progress statistics.

File Name	Duration	Size	DateTime	Status
/home/callrecfiles/20160706/0/00...	00:00:13	1,492 KB	2016-07-06 09:2...	Wait
/home/callrecfiles/20160706/0/00...	00:00:13	1,492 KB	2016-07-06 09:2...	Wait
/home/callrecfiles/20160706/0/00...	00:02:13	14,519 KB	2016-07-06 09:2...	Wait
/home/callrecfiles/20160706/0/00...	00:02:13	14,519 KB	2016-07-06 09:2...	Wait
/home/callrecfiles/20160706/0/00...	00:00:00	0 KB	2016-07-06 09:4...	Wait
/home/callrecfiles/20160706/0/00...	00:00:00	0 KB	2016-07-06 09:4...	Wait
/home/callrecfiles/20160706/0/00...	00:00:46	5,750 KB	2016-07-06 09:4...	Wait
/home/callrecfiles/20160706/0/00...	00:00:46	5,750 KB	2016-07-06 09:4...	Wait
/home/callrecfiles/20160706/0/00...	00:00:43	4,916 KB	2016-07-06 09:4...	Wait
/home/callrecfiles/20160706/0/00...	00:00:43	4,916 KB	2016-07-06 09:4...	Wait
/home/callrecfiles/20160706/0/00...	00:00:14	1,763 KB	2016-07-06 09:5...	Wait
/home/callrecfiles/20160706/0/00...	00:00:14	1,763 KB	2016-07-06 09:5...	Wait
/home/callrecfiles/20160706/1/00...	00:00:14	2,018 KB	2016-07-06 10:4...	Wait

Download Directory: C:\AddPac\RecordingBackupData

File :
 Received Size : 0/0 Bytes
 Total Size : 31,875,502 Bytes Progress Time: 00:00:00

Delete files after download

Error Log History Start Cancel Close

Smart Recording File Manager

(Recorded Call List Search)

The screenshot displays the 'Smart Recording File Manager' application interface. A 'Search Filter' dialog box is open, allowing users to refine search results. The dialog includes a 'Record Time' section with start and end date/time pickers, and a 'Filter' section with a table for defining search criteria.

Filter Name	Rule	Search	Operator
Calling Number	IsExactly	5067	<Blank>
<Blank>	IsExactly		<Blank>
<Blank>	IsExactly		<Blank>
<Blank>	IsExactly		<Blank>
<Blank>	IsExactly		<Blank>

Below the dialog, a table displays recorded call data:

Start Time	End Time	Duration	Calling Number	Calling User	Called Number	Called User	Recording Source
2016-07-06 12:04:33	2016-07-06 12:04:34	00:00:09	5055		5155		172.17.50.26
2016-07-06 12:04:34	2016-07-06 12:04:35	00:00:09	5067		5167		172.17.50.26
2016-07-06 12:04:35	2016-07-06 12:04:38	00:00:09	5085		5185		172.17.50.26
2016-07-06 12:04:36	2016-07-06 12:04:42	00:00:09	5098		5198		172.17.50.26

The application window also shows a tree view on the left for 'Remote Database (172.17.50.30)' and 'Local Database', and a status bar at the bottom with system information and a 'Waiting' indicator.

Smart Recording File Manager

(Periodical Backup)

The screenshot displays the Smart Recording File Manager application. The main window shows a search results table with columns: Start Time, End Time, Duration, Calling Number, Calling User, Called Number, Called User, and Recording Source. Two records are visible for 2016-07-06.

Start Time	End Time	Duration	Calling Number	Calling User	Called Number	Called User	Recording Source
2016-07-06 12:04:34	2016-07-06 12:04:34	00:00:09	5055		5155		172.17.50.26
2016-07-06 12:04:35	2016-07-06 12:04:35	00:00:09	5067		5167		172.17.50.26

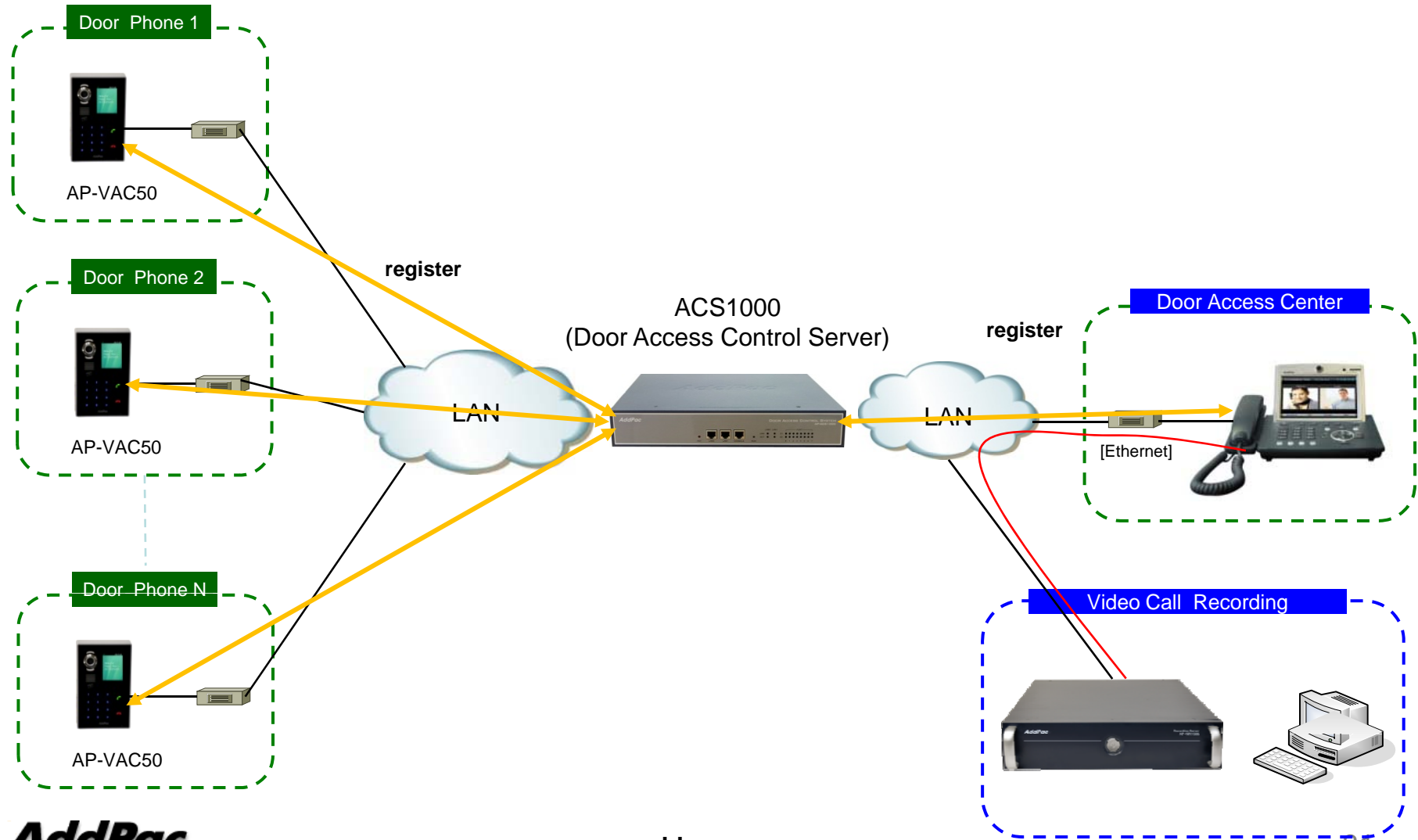
A 'Schedule Setting' dialog box is open, showing recording source selection and scheduling options. The 'Recording Source' list includes 172.17.207.207, 172.17.50.26, and 172.17.50.80. The 'Scheduler Run / Stop' section is checked, with 'Daily' selected and 'Every 1 Days' set. The 'Start Time' is 03:00:00. There are checkboxes for 'Delete files after download' and 'Download to file overwrite', both currently unchecked. The 'Directory' field is set to C:\AddPac\RecordingBackupData.

Application Service

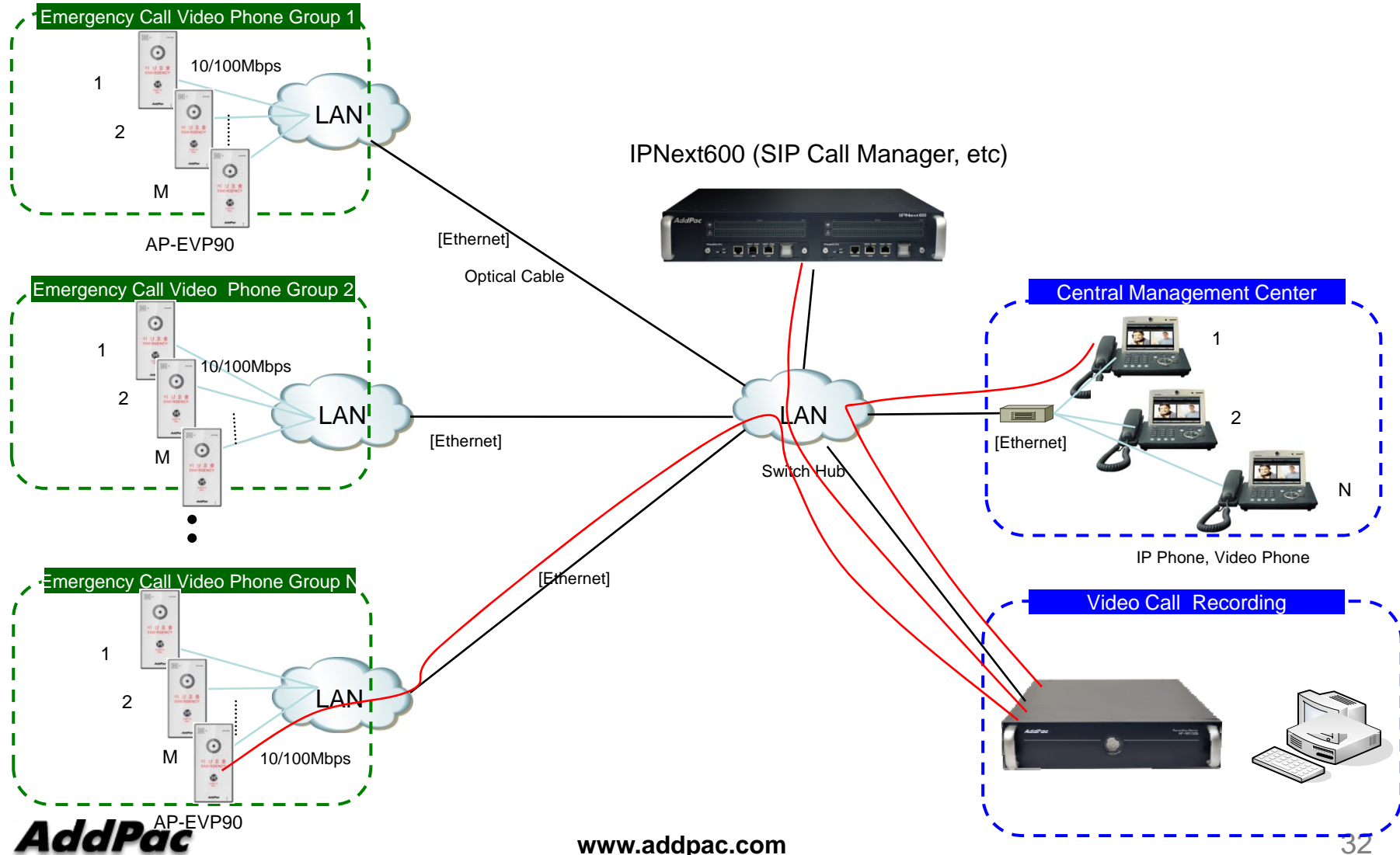
AP-NR1500 IP Video Recording Server

- IP Video Door Phone Application
- IP Video Telephony Application
- Video Conference Application
- Emergency Call Video Phone Application

IP Video Door Phone Application



Emergency Video Call Center Application



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