

Smart DVoiceR Manager

Preliminary Product Overview

(Without notice, following described technical spec. can be changed)

VoIP Gateways



AP-NR700 Voice Recording Server

AddPac

AddPac Technology

2007, Sales and Marketing

www.addpac.com

Contents

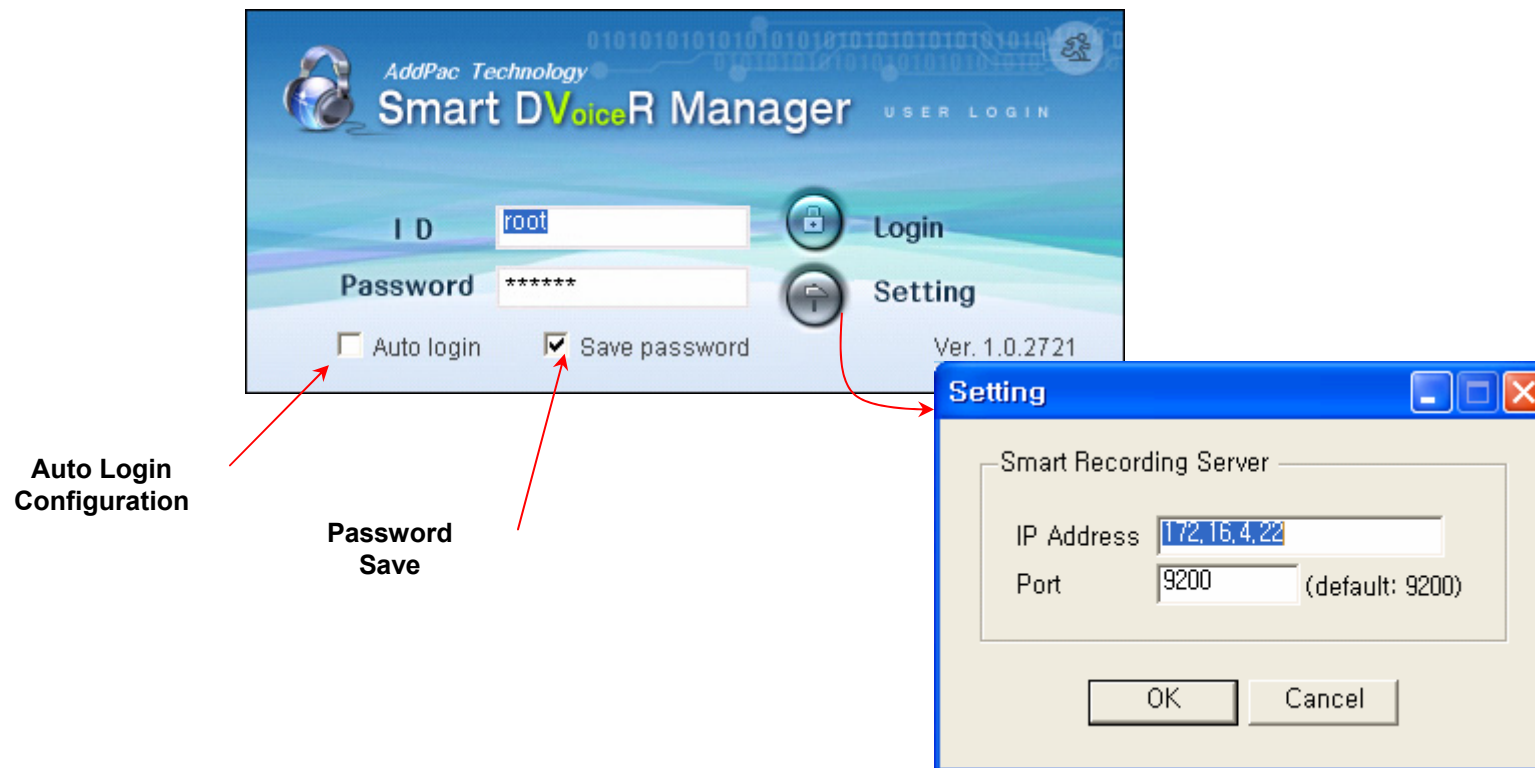
- Overview
- Smart Digital Voice Recorder Manager
- Smart File Manager for Secondary Backup



Overview

- Call History Management (search/modify/delete/Excel File save)
- Media Play Management (Play/Stop/Seek/Pause)
- Live Call Recording List Management
- Live Call Monitoring (Play)
- Local Backup (File Manager Support, PC HDD, DVD) and Local Play
- Event History Search
- User Management (registration/modify/delete/search)
- Server Status (CPU/Memory/HDD/Transcoding) & Event Monitoring
- Recording File Waveform Analyzing Function
- Recording Source Management (VoIP Gateway, IP Phone, etc)
- Live Call Recording Board (Recording Board Design, Live Call Status, Voice Monitoring)

Login



User Management

The screenshot shows the Smart DVoiceR Manager application window. The main window title is "Smart DVoiceR Manager" and it has a menu bar with "File", "Advanced", "Configuration", and "Help". Below the menu bar is a toolbar with various icons. The main content area is titled "Smart DVoiceR Manager" and "AddPac Technology". On the left is a tree view showing the application structure, with "User Management" expanded to show "Users". The "Users" window is open, displaying a table of users. Three red arrows point to the "Add", "Edit", and "Delete" icons above the table, labeled "New Manager Registration", "Manager Information Modification", and "Manager Delete" respectively. The table has columns for "No.", "ID", "Name", and "Description".

No.	ID	Name	Description
1	Administrator	Administrator	Addpac Administrator
2	root	recording manager	Maintenance dept.

2007-06-13 오후 1:43:49 Ver. 1.0.2719 172.16.31.14:9200 root

Recording Server Status Monitoring

The screenshot shows the Smart DVoiceR Manager interface. The main window displays the 'Smart Recording Server Status' for the IP address 172.16.31.14:9200, indicating that the 'Smart Recording Server is running'. A secondary window titled 'Smart Recording Server' is open, showing the 'Client Session List' table. The table has the following data:

No.	User	IP Address	Port	Access Time	Duration
1	root	172.16.1.31	4417	2007-06-13 13:40:05	00:04:49

A red arrow points to the first row of the table, labeled 'Client List'. The interface also shows configuration options for 'Max Session' (10) and 'Keep Alive Interval' (15 sec).

Recording File Management

(Recorded File Monitoring (play/seek/pause/resume/stop))

The screenshot displays the Smart DVoiceR Manager software interface. The main window shows a 'Record Search' table with columns for No., Call ID, Source IP, Rec StartTime, Rec EndTime, Rec Duration, Call Duration, Calling Num, Calli..., Calling..., Called Num, Calle..., and Called S... The table contains 19 rows of recorded call data. A 'Search Filter' dialog box is open in the foreground, showing search criteria for 'Calling Number' (2000) and 'Called Number' (3000). A playback control window is also visible, showing 'AddPac calling-3004/called-5020' with a progress bar and a 'Memo Save' button. The interface includes a menu bar (File, Advanced, Configuration, Help), a toolbar, and a sidebar with navigation options like User Management, Device Management, and Recording Management.

No.	Call ID	Source IP	Rec StartTime	Rec EndTime	Rec Duration	Call Duration	Calling Num	Calli...	Calling...	Called Num	Calle...	Called S...
1	39500	172.17.213.100	2007-06-13 13:12:15	2007-06-13 13:12:43	00:00:28	00:00:28	3000		4/0/0	5016		4/0/0
2	39502	172.17.213.100	2007-06-13 13:12:15	2007-06-13 13:12:43	00:00:28	00:00:28	3001		4/1/0	5017		4/1/0
3	39504	172.17.213.100	2007-06-13 13:12:15	2007-06-13 13:12:43	00:00:28	00:00:28	3002		4/2/0	5018		4/2/0
4	39506	172.17.213.100	2007-06-13 13:12:15	2007-06-13 13:12:43	00:00:28	00:00:28	3003		4/3/0	5019		4/3/0
5	39508	172.17.213.100	2007-06-13 13:12:15	2007-06-13 13:12:44	00:00:28	00:00:28	3004		5/0/0	5020		5/0/0
6	39510	172.17.213.100	2007-06-13 13:12:15	2007-06-13 13:12:44	00:00:28	00:00:28	3005		5/1/0	5021		5/1/0
7	39512	172.17.213.100	2007-06-13 13:12:15	2007-06-13 13:12:45	00:00:29	00:00:28	3006		5/2/0	5022		5/2/0
8	39514	172.17.213.100	2007-06-13 13:12:15	2007-06-13 13:12:45	00:00:29	00:00:28	3007		5/3/0	5023		5/3/0
9	39516	172.17.213.100	2007-06-13 13:12:15	2007-06-13 13:12:45	00:00:29	00:00:28	3007		5/3/0	5023		5/3/0
10	39518	172.17.213.100	2007-06-13 13:12:15	2007-06-13 13:12:45	00:00:29	00:00:28	3007		5/3/0	5023		5/3/0
11	39520	172.17.213.100	2007-06-13 13:12:16	2007-06-13 13:12:16	00:00:00	00:00:00				5024		6/0/0
12	39522	172.17.213.100	2007-06-13 13:12:16	2007-06-13 13:12:16	00:00:00	00:00:00				5025		6/1/0
13	39524	172.17.213.100	2007-06-13 13:12:16	2007-06-13 13:12:16	00:00:00	00:00:00				5026		6/2/0
14	39526	172.17.213.100	2007-06-13 13:12:17	2007-06-13 13:12:17	00:00:00	00:00:00				5027		6/3/0
15	39528	172.17.213.100	2007-06-13 13:12:17	2007-06-13 13:12:17	00:00:00	00:00:00				5028		7/0/0
16	39529	172.17.213.100	2007-06-13 13:12:17	2007-06-13 13:12:17	00:00:00	00:00:00				5029		7/1/0
17	39498	172.17.213.100	2007-06-13 13:12:17	2007-06-13 13:12:17	00:00:00	00:00:00				5030		7/2/0
18	39499	172.17.213.100	2007-06-13 13:12:17	2007-06-13 13:12:17	00:00:00	00:00:00				5031		7/3/0
19	39501	172.17.213.100	2007-06-13 13:12:17	2007-06-13 13:12:17	00:00:00	00:00:00				2000		0/0/0

Recording File List Save (Excel File Format)

The screenshot displays the Smart DVoiceR Manager interface. The main window shows a 'Record Search' table with 15 records. A dialog box titled 'Records Exporting !!!' is overlaid on the table, showing a progress bar at 69%. A red arrow points from the 'Export' icon in the Record Search toolbar to the 'Save As' dialog box, which is open to the 'My Recent Places' folder. The 'Save As' dialog shows the file name 'Records.xls' and the format 'Excel Files'. In the background, a Microsoft Excel spreadsheet is open, displaying the exported data. The spreadsheet has columns for 'Call ID', 'Source IP', 'Record Start Time', 'Record End Time', 'Record', 'Call Dur', 'Calling', 'Called', 'Called', 'Called', 'File Name', 'File Size', 'Audio C', and 'Media'. The data is organized into rows, with the first row containing the following values: 63292, 172.16.9.60, 2007-06-12 09:44:59, 2007-06-12 09:46:34, 00:01:35, 00:01:35, 1015, 3/3/0, 6015, 3/3/0, 63292007819K, G711U.

No.	Call ID	Source IP	Rec StartTime	Rec EndTime	Rec	Call Dur	Calling	Called	Called	Called	File Name	File Size	Audio C	Media
1	63292	172.16.9.60	2007-06-12 09:44:59	2007-06-12 09:46:34	00:01:35	00:01:35	1015	3/3/0	6015	3/3/0	63292007819K	G711U		
2	63293	172.16.9.60	2007-06-12 09:46:38	2007-06-12 10:10:38	00:22:49	00:24:03	1015	3/3/0	6015	3/3/0	63293007238K	G711U		
3	63295	172.16.9.60	2007-06-12 10:11:28	2007-06-12 10:14:34	00:03:06	00:03:08	1015	3/3/0	6015	3/3/0	63295007238K	G711U		
4	64171	172.16.9.60	2007-06-12 13:24:00	2007-06-12 13:24:00	00:00:00	00:01:10	1015	3/3/0	6015	3/3/0	64171007652K	G711U		
5						00:02:19	1015							
6						00:01:26	1015							
7						00:01:33	1015							
8	64177	172.16.9.60	2007-06-12 14:04:09	2007-06-12 14:04:25	00:00:16	00:00:16								
9	64181	172.16.9.60	2007-06-12 14:05:11											
10	64185	172.16.9.60	2007-06-12 14:34:21											
11	64186	172.16.9.60	2007-06-12 14:37:31											
12	67503	172.16.9.60	2007-06-12 16:00:00											
13	67504	172.16.9.60	2007-06-12 16:02:51											
14	67515	172.16.9.60	2007-06-12 17:03:21											
15	67517	172.16.9.60	2007-06-12 17:06:00											

Recording File Waveform Analyzer



Recording File Waveform Analyzer (Repeated Play)



Recording File Waveform Analyzer (Bookmark Play)

The screenshot displays the 'Voice WaveForm Analyzer' interface. It features two stacked waveform plots. The top plot is yellow and labeled 'Calling Enable/Disable', and the bottom plot is green and labeled 'Called Enable/Disable'. Both plots have a vertical axis labeled 'smpl' ranging from -20000 to 20000. A time axis at the bottom shows timestamps from 00:00:00 to 00:03:05. A 'Bookmark' is marked on the green waveform at approximately 00:01:05. A 'Bookmark List' dialog box is open, showing a table with one entry: 'my bookmark no1' at 00:01:05. The dialog has buttons for 'Modify', 'Bookmark Set', 'Bookmark Delete', and 'Play at Bookmark Position'. A context menu is also visible over the bottom waveform, with options: 'Play From Here', 'Set Bookmark', and 'Bookmark List'. The bottom control panel includes a 'Repeat Selection' button, 'Start', 'End', and 'Length' time fields (all set to 00:00:00), a 'Duration' field, and a large digital display showing '00:00:00 / 00:03:06'. The text 'bookmark 설정' and 'hms' are also visible near the time axis.

Recording File Waveform Analyzer (Column Side Zooming)

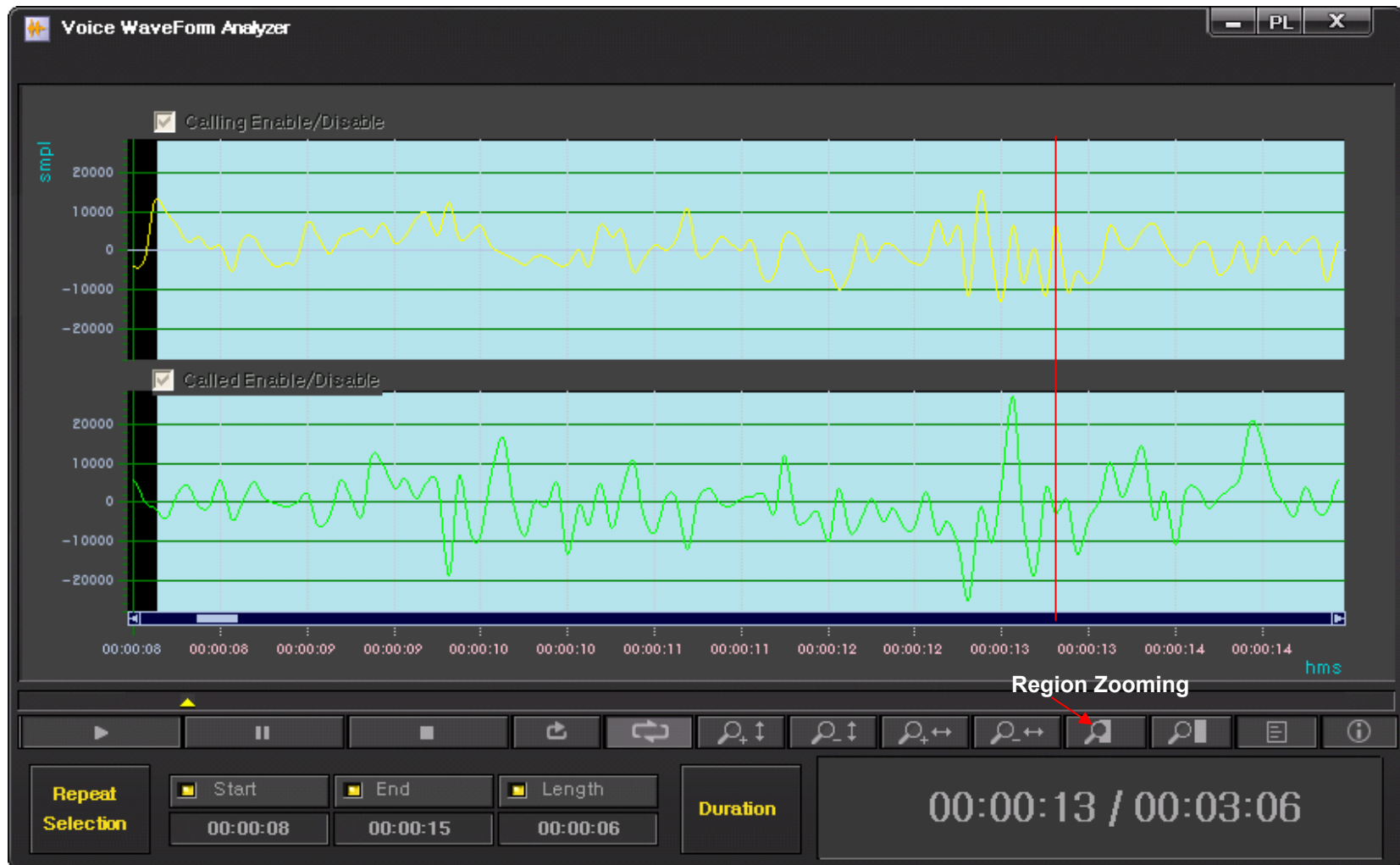


Recording File Waveform Analyzer

(Row Side Zooming)



Recording File Waveform Analyzer (Region Zooming)



Recording File Waveform Analyzer

(Call Info. Display)

The screenshot displays the 'Voice WaveForm Analyzer' application window. It features two waveform plots: a top plot with a yellow waveform and a bottom plot with a green waveform. A central 'Record Information' panel is overlaid, containing the following data:

Record Information	
Start Time	2007-06-12 10:11:28
End Time	2007-06-12 10:14:34
Record Duration	00:03:06
Record Memo	<input type="text"/>

Call Information	
Initiated Time	2007-06-12 10:13:15
Established Time	2007-06-12 10:13:16
Disconnected Time	2007-06-12 10:16:24
Call Duration	00:03:08

Calling Party	
Number	1015
User	
Codec	G711U
Directory	/mnt/hda1/callrecfiles
FileSize	1606k

Called Party	
Number	6015
User	
Codec	G711U
Directory	/mnt/hda1/callrecfiles
FileSize	1606k

At the bottom of the interface, there is a control bar with playback buttons (play, pause, stop, previous, next, zoom in, zoom out, zoom reset, zoom full) and a 'Repeat Selection' section with 'Start', 'End', and 'Length' buttons. A 'Duration' section shows '00:00:10', '00:00:11', and '00:00:01'. The main display area shows 'Original View Mode' and a large digital clock reading '00:00:11 / 00:03:06'. A red arrow points from the 'Call Info. Display' label to the information panel.

Live Call Recording List and Monitoring

The screenshot displays the Smart DVoiceR Manager software interface. The main window is titled "Smart DVoiceR Manager" and features a menu bar (File, Advanced, Configuration, Help) and a toolbar. The central area is labeled "Current Call List Display" and "Live Play". Below this, there is a "Record Session" section with a "Refresh Interval" set to 5 seconds and an "Apply" button. The main display is a table of call records with columns: No., Call ID, Source IP, Rec StartTime, Initiated Time, Established Time, Call Duration, Calling Num, Calling User, Calling SI..., and Calling Trans... The table contains 37 rows of data. A "Record Information" dialog box is open, showing details for a call with ID 3006, including start and end times, duration, and recording memo. The dialog also displays "Call Information" and "Calling Party" details. The bottom status bar shows the date and time as 2007-06-13 3:22:47.

No.	Call ID	Source IP	Rec StartTime	Initiated Time	Established Time	Call Duration	Calling Num	Calling User	Calling SI...	Calling Trans...
1	46551	172.17.213.100	2007-06-13 15:20:42	2007-06-13 15:2...	2007-06-13 15:22:38	00:00:11	5009		2/1/0	G7231_63-> ... 2
2	46552	172.17.213.100	2007-06-13 15:20:42	2007-06-13 15:2...	2007-06-13 15:22:38	00:00:11	5007		1/3/0	G7231_63-> ... 2
3	46553	172.17.213.100	2007-06-13 15:20:43	2007-06-13 15:2...	2007-06-13 15:22:39	00:00:10	5013		3/1/0	G7231_63-> ... 2
4	46558	172.17.213.100	2007-06-13 15:20:44	2007-06-13 15:2...	2007-06-13 15:22:39	00:00:09	3015		7/3/0	G7231_63-> ... 5
5	46554	172.17.213.100	2007-06-13 15:20:44	2007-06-13 15:2...	2007-06-13 15:22:39	00:00:09	5011		2/3/0	G7231_63-> ... 2
6	46555	172.17.213.100	2007-06-13 15:20:44	2007-06-13 15:2...	2007-06-13 15:22:39	00:00:09	5014		3/2/0	G7231_63-> ... 2
7	46556	172.17.213.100	2007-06-13 15:20:44	2007-06-13 15:2...	2007-06-13 15:22:39	00:00:09	5011		3/3/0	G7231_63-> ... 2
8	46559	172.17.213.100	2007-06-13 15:20:45	2007-06-13 15:2...	2007-06-13 15:22:39	00:00:09	5011		7/2/0	G7231_63-> ... 5
9	46557	172.17.213.100	2007-06-13 15:20:45	2007-06-13 15:2...	2007-06-13 15:22:39	00:00:09	5011		0/3/0	G7231_63-> ... 2
10	46560	172.17.213.100	2007-06-13 15:20:46	2007-06-13 15:2...	2007-06-13 15:22:39	00:00:09	5011		7/0/0	G7231_63-> ... 5
11	46561	172.17.213.100	2007-06-13 15:20:47	2007-06-13 15:2...	2007-06-13 15:22:39	00:00:09	5011		1/0/0	G7231_63-> ... 2
12	46546	172.17.213.100	2007-06-13 15:20:34	2007-06-13 15:2...	2007-06-13 15:22:39	00:00:09	5011		4/3/0	G7231_63-> ... 5
13	46563	172.17.213.100	2007-06-13 15:20:47	2007-06-13 15:2...	2007-06-13 15:22:39	00:00:09	5011		6/0/0	G7231_63-> ... 5
14	46562	172.17.213.100	2007-06-13 15:20:50	2007-06-13 15:2...	2007-06-13 15:22:39	00:00:09	5011		1/2/0	G7231_63-> ... 2
15	46545	172.17.213.100	2007-06-13 15:20:36	2007-06-13 15:2...	2007-06-13 15:22:39	00:00:09	5011		3/0/0	G7231_63-> ... 2
16	46564	172.17.213.100	2007-06-13 15:20:50	2007-06-13 15:2...	2007-06-13 15:22:39	00:00:09	5011		4/0/0	G7231_63-> ... 5
17	46565	172.17.213.100	2007-06-13 15:20:51	2007-06-13 15:2...	2007-06-13 15:22:39	00:00:09	5011		5/3/0	G7231_63-> ... 5
18	46547	172.17.213.100	2007-06-13 15:20:41	2007-06-13 15:2...	2007-06-13 15:22:39	00:00:09	5011		0/2/0	G7231_63-> ... 2
19	46566	172.17.213.100	2007-06-13 15:20:52	2007-06-13 15:2...	2007-06-13 15:22:39	00:00:09	5011		6/2/0	G7231_63-> ... 5
20	46548	172.17.213.100	2007-06-13 15:20:41	2007-06-13 15:2...	2007-06-13 15:22:39	00:00:09	5011		1/1/0	G7231_63-> ... 2
21	46567	172.17.213.100	2007-06-13 15:20:52	2007-06-13 15:2...	2007-06-13 15:22:39	00:00:09	5011		4/2/0	G7231_63-> ... 5
22	46549	172.17.213.100	2007-06-13 15:20:41	2007-06-13 15:2...	2007-06-13 15:22:39	00:00:09	5011		2/0/0	G7231_63-> ... 2
23	46568	172.17.213.100	2007-06-13 15:20:52	2007-06-13 15:2...	2007-06-13 15:22:39	00:00:09	5011		5/2/0	G7231_63-> ... 5
24	46569	172.17.213.100	2007-06-13 15:20:52	2007-06-13 15:2...	2007-06-13 15:22:39	00:00:09	5011		6/1/0	G7231_63-> ... 5
25	46570	172.17.213.100	2007-06-13 15:20:52	2007-06-13 15:2...	2007-06-13 15:22:39	00:00:09	5011		5/0/0	G7231_63-> ... 5
26	46550	172.17.213.100	2007-06-13 15:20:42	2007-06-13 15:2...	2007-06-13 15:22:39	00:00:09	5011		0/0/0	G7231_63-> ... 2
27	46573	172.17.213.100	2007-06-13 15:20:53	2007-06-13 15:2...	2007-06-13 15:22:39	00:00:09	5011		4/1/0	G7231_63-> ... 5
28	6208	172.16.9.60	2007-06-13 15:20:30	2007-06-13 15:2...	2007-06-13 15:22:39	00:00:09	5011		4/2/0	G729A_8->G... 2
29	6209	172.16.9.60	2007-06-13 15:20:30	2007-06-13 15:2...	2007-06-13 15:22:39	00:00:09	5011		5/0/0	G729A_8->G... 2
30	6223	172.16.9.60	2007-06-13 15:20:45	2007-06-13 15:2...	2007-06-13 15:22:39	00:00:09	5011		1/3/0	G729A_8->G... 6
31	6213	172.16.9.60	2007-06-13 15:20:32	2007-06-13 15:2...	2007-06-13 15:22:39	00:00:09	5011		4/0/0	G729A_8->G... 2
32	6214	172.16.9.60	2007-06-13 15:20:32	2007-06-13 15:2...	2007-06-13 15:22:39	00:00:09	5011		4/3/0	G729A_8->G... 2
33	6215	172.16.9.60	2007-06-13 15:20:32	2007-06-13 15:2...	2007-06-13 15:22:39	00:00:09	5011		4/1/0	G729A_8->G... 2
34	6224	172.16.9.60	2007-06-13 15:20:49	2007-06-13 15:2...	2007-06-13 15:22:42	00:00:04	1006		1/2/0	G729A_8->G... 6
35	5882	172.16.9.60	2007-06-13 15:08:56	2007-06-13 15:1...	2007-06-13 15:10:48	00:11:57	1015		3/3/0	G729A_8->G... 6
36	6220	172.16.9.60	2007-06-13 15:20:41	2007-06-13 15:2...	2007-06-13 15:22:35	00:00:12	1004		1/0/0	G729A_8->G... 6
37	6221	172.16.9.60	2007-06-13 15:20:42	2007-06-13 15:2...	2007-06-13 15:22:35	00:00:11	1005		1/1/0	G729A_8->G... 6

Event Management (Configuration)

Smart DVoiceR Manager

File Advanced Configuration Help

Smart DVoiceR Manager AddPac Technology

Smart DVoiceR Manager

Event Configuration

Event Configuration

Event Source

Host : 172.16.4.22

Listen Port : 514

← Server IP address

← Event Port Number

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.

← Realtime event level Setting

Event Filter | Event Logging Filter

+ Event filter setting for source.

Select / Deselect All

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

Use Emergency Sound

OK Cancel

Event Source

Host : 172.16.4.22

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 logging level Setting

Event Filter | Event Logging Filter

+ Event filter setting for logging.

Select / Deselect All

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

Use Emergency Sound

OK Cancel

Event level Configuration

Sound Play On/Off at Server Emergency Event Occurring

2007-06-14 오후 4:25:35 Ver. 1.0.2720 172.16.4.22:9200 root

Event Management (Monitoring)

The screenshot displays the Smart DVoiceR Manager interface. The main window shows a list of call records with columns for No., Call ID, Source IP, Rec StartTime, Initiated Time, Established Time, Call Duration, Calling Num, and Calli... The interface includes a menu bar (File, Advanced, Configuration, Help), a toolbar, and a navigation tree on the left. A 'Refresh Interval' of 5 seconds is set, and an 'Apply' button is visible. A 'Pause' button is located at the bottom right of the main window.

Annotations in red text point to specific features:

- Event Display Window:** Points to the left-hand navigation tree.
- Event level Configuration Window:** Points to the 'Record Session' option in the navigation tree.
- Event Display Window Clear:** Points to the trash icon at the bottom right of the main window.
- Event Receiving Pause:** Points to the 'Pause' button at the bottom right of the main window.

The bottom section of the interface shows an 'Event Monitoring' window with the following data:

DateTime	Host	Severity	Module	Description
Jun 14 07:25:43	172.16.4.22	Informational	recording	recording stopping ; call_id = 682, ip = 172.17.213.100, mac_addr = 0002.a403.cc82
Jun 14 07:25:43	172.16.4.22	Informational	recording	Stop Recording, bind id:2003
Jun 14 07:25:43	172.16.4.22	Informational	recording	new recording starting ; call_id = 707, ip = 172.17.213.100, mac_addr = 0002.a403.cc82
Jun 14 07:25:43	172.16.4.22	Informational	recording	Start Recording, bind id:2003
Jun 14 07:25:44	172.16.4.22	Informational	recording	recording stopping ; call_id = 683, ip = 172.17.213.100, mac_addr = 0002.a403.cc82
Jun 14 07:25:44	172.16.4.22	Informational	recording	Stop Recording, bind id:2003
Jun 14 07:25:44	172.16.4.22	Informational	recording	new recording starting ; call_id = 708, ip = 172.17.213.100, mac_addr = 0002.a403.cc82
Jun 14 07:25:44	172.16.4.22	Informational	recording	Start Recording, bind id:2003
Jun 14 07:25:44	172.16.4.22	Debug	system	get current recording session ;
Jun 14 07:25:44	172.16.4.22	Informational	recording	new recording starting ; call_id = 709, ip = 172.17.213.100, mac_addr = 0002.a403.cc82
Jun 14 07:25:44	172.16.4.22	Informational	recording	Start Recording, bind id:2003
Jun 14 07:25:45	172.16.4.22	Informational	recording	recording stopping ; call_id = 684, ip = 172.17.213.100, mac_addr = 0002.a403.cc82
Jun 14 07:25:45	172.16.4.22	Informational	recording	Stop Recording, bind id:2003
Jun 14 07:25:45	172.16.4.22	Informational	recording	new recording starting ; call_id = 710, ip = 172.17.213.100, mac_addr = 0002.a403.cc82
Jun 14 07:25:46	172.16.4.22	Informational	recording	Start Recording, bind id:2003
Jun 14 07:25:46	172.16.4.22	Informational	recording	recording stopping ; call_id = 686, ip = 172.17.213.100, mac_addr = 0002.a403.cc82
Jun 14 07:25:46	172.16.4.22	Debug	system	Stop Recording, bind id:2003
Jun 14 07:25:46	172.16.4.22	Debug	system	get current recording session ;

Event Management (System Monitoring)

The screenshot displays the 'System Monitoring' window within the Smart DVoiceR Manager application. The interface is divided into several sections:

- Left Panel:** A tree view showing the application's structure, including 'Smart DVoiceR Manager', 'User Management', 'Device Management', 'Recording Management', 'Event & Monitoring', and 'Recording Board'.
- Performance Section:** Contains six sub-panels:
 - CPU Usage:** A gauge showing 40% usage.
 - CPU Usage History:** A line graph showing CPU usage over time.
 - Memory Usage:** A gauge showing 61 MB usage.
 - Memory Usage History:** A line graph showing memory usage over time.
 - Trans Codec Usage:** A gauge showing 54 usage with a 'Max: 128' label.
 - Trans Codec Usage History:** A line graph showing trans codec usage over time.
- Summary Tables:** Three tables on the right provide detailed statistics:
 - CPU:**

Total(%)	100
Used(%)	0
 - Memory:**

Total	254752 KB
Available	171860 KB
Used	82892 KB
Used(%)	32,54
 - Transcoding Channel:**

Max	128
Used	0
- Disk Usage:** Two progress bars at the bottom show disk usage for 'rootfs (/)' (2.00 GB / 3.00 GB) and '/dev/hda1 (/mnt/hda1)' (139.00 GB / 300.00 GB).

The status bar at the bottom indicates the date and time (2007-06-14 오후 4:38:08), version (Ver. 1,0,2720), IP address (172.16.4.22:9200), and user (root).

Event Management

(Event History)

The screenshot displays the 'Smart DVoiceR Manager - [Event History]' window. The interface includes a menu bar (File, Advanced, Configuration, Help), a toolbar, and a navigation tree on the left. The main area is divided into 'Event Search Time Setting' and 'Event category' sections. The 'Event Search Time Setting' section has 'Start' (2007-06-14 00:00:00) and 'End' (2007-06-14 23:59:59) dropdowns. The 'Event category' section has checkboxes for 'Recording', 'Play', and 'System', each with a 'Debug' dropdown. A 'Search Condition Setting' section includes 'Filter Name' (Event), 'Rule' (IsExactly), and a 'Search' input field. A 'Load' button is also present. Below these settings is a table of event history.

No.	Event Time	Host	Category	Severity	Event
22	2007-06-14 15:14:21	172.16.4.22	recording	Informational	recording stopping : call_id = 0, ip = , mac_addr =
23	2007-06-14 15:14:21	172.16.4.22	recording	Informational	recording stopping : call_id = 0, ip = , mac_addr =
24	2007-06-14 15:15:31	172.16.4.22	recording	Informational	new recording starting : call_id = 9782, ip = 172.16,9...
25	2007-06-14 15:15:32	172.16.4.22	recording	Informational	new recording starting : call_id = 9784, ip = 172.16,9...
26	2007-06-14 15:15:32	172.16.4.22	recording	Informational	new recording starting : call_id = 9788, ip = 172.16,9...
27	2007-06-14 15:15:33	172.16.4.22	recording	Informational	new recording starting : call_id = 9790, ip = 172.16,9...
28	2007-06-14 15:15:35	172.16.4.22	recording	Informational	new recording starting : call_id = 9792, ip = 172.16,9...
29	2007-06-14 15:15:37	172.16.4.22	recording	Informational	new recording starting : call_id = 9794, ip = 172.16,9...
30	2007-06-14 15:15:39	172.16.4.22	recording	Informational	new recording starting : call_id = 9797, ip = 172.16,9...
31	2007-06-14 15:15:40	172.16.1.48	system	Debug	getChannelUsage : client ip = 172.16,1.48, port = 1824
32	2007-06-14 15:15:43	172.16.1.48	system	Debug	get system information requested : cpu = 15%, mem...
33	2007-06-14 15:15:44	172.16.1.48	system	Debug	get system information requested : cpu = 20%, mem...
34	2007-06-14 15:15:45	172.16.1.48	system	Debug	get system information requested : cpu = 20%, mem...
35	2007-06-14 15:15:45	172.16.1.48	system	Debug	get transcoding channel usage :
36	2007-06-14 15:15:46	172.16.1.48	system	Debug	getChannelUsage : client ip = 172.16,1.48, port = 1824
37	2007-06-14 15:15:47	172.16.1.48	system	Debug	get system information requested : cpu = 1%, memor...
38	2007-06-14 15:15:47	172.16.1.48	system	Debug	get transcoding channel usage :
39	2007-06-14 15:15:48	172.16.1.48	system	Debug	getChannelUsage : client ip = 172.16,1.48, port = 1824
40	2007-06-14 15:15:49	172.16.1.48	system	Debug	getChannelUsage : client ip = 172.16,1.48, port = 1824
41	2007-06-14 15:15:50	172.16.1.48	system	Debug	getChannelUsage : client ip = 172.16,1.48, port = 1824
42	2007-06-14 15:15:51	172.16.1.48	system	Debug	get system information requested : cpu = 16%, mem...
43	2007-06-14 15:15:51	172.16.1.48	system	Debug	get transcoding channel usage :
44	2007-06-14 15:15:52	172.16.1.48	system	Debug	getChannelUsage : client ip = 172.16,1.48, port = 1824
45	2007-06-14 15:15:53	172.16.1.48	system	Debug	getChannelUsage : client ip = 172.16,1.48, port = 1824
46	2007-06-14 15:15:54	172.16.1.48	system	Debug	getChannelUsage : client ip = 172.16,1.48, port = 1824
47	2007-06-14 15:15:55	172.16.1.48	system	Debug	getChannelUsage : client ip = 172.16,1.48, port = 1824
48	2007-06-14 15:15:56	172.16.1.48	system	Debug	getChannelUsage : client ip = 172.16,1.48, port = 1824
49	2007-06-14 15:15:57	172.16.1.48	system	Debug	get system information requested : cpu = 16%, mem...
50	2007-06-14 15:15:57	172.16.1.48	system	Debug	get transcoding channel usage :
51	2007-06-14 15:15:58	172.16.4.22	recording	Informational	recording stopping : call_id = 9785, ip = 172.16,9.60,...
52	2007-06-14 15:15:58	172.16.1.48	system	Debug	get system information requested : cpu = 8%, memor...
53	2007-06-14 15:15:59	172.16.1.48	system	Debug	get transcoding channel usage :

Recoding Board Management (Call User Registration)

The screenshot displays the Smart DVoiceR Manager interface. The main window shows a 'Board Users' table with columns for No., User ID, Name, and Phone Number. A context menu is open over the table, highlighting the 'Add' option. Three dialog boxes are overlaid on the main window:

- Import Board Users:** A dialog for importing users from a file. It includes a filter section and two tables: 'Users' and 'Imported Board Users'. The 'Users' table lists various user IDs and names.
- Add Board User:** A dialog for adding a new user. It contains fields for User ID (james), User Name (james brahms), Description (quality assurance dev.), and Group (SE). It also has a section for Phone Numbers with an 'Add' button.
- Context Menu:** A menu with options: Import, Add, Modify, Delete, and Refresh. The 'Add' option is highlighted.

Red arrows point from the 'Add' option in the context menu to the 'Add Board User' dialog, and from the 'Import' option to the 'Import Board Users' dialog. The text 'Call User List Import' and 'New Call User Registration' are written in red next to these arrows.

No.	User ID	Name	Phone Number
1	2002	james lee	2002
2	bmlee	bmlee	6002
3	cykim	cykim	1019
4	dhkim	dhkim	5075
5	hgyang	hgyang	2006
6	jhjeon	jhjeon	6008
7	jhkwon	jhkwon	1002
8	jhlee	jhlee	026
9	jhson	jhson	5
10	jschoi	jschoi	5
11	jwwoo	jwwoo	3
12	jkim	jkim	0
13	jypark	jypark	7
14	kkim	kkim	3
15	kscho	kscho	5
16	kswoo	kswoo	2004
17	kuhan	kuhan	1210
18	mhlee	mhlee	2007
19	mjlee	mjlee	1008
20	mkkim	mkkim	1212
21	mwlee	mwlee	1006
22	ohs	ohs	6015
23	phkwon	kwon young phil	6006
24	smkim	smkim	1003
25	syk	soyoung kim	1027
26	wshwang	senior manager	6005
27	yhj	yhj	1016
28	ymchoi	ymchoi(QA assistant)	6007
29	yslee	senior assistant	1015

Recoding Board Management

(Call Group Registration)

Smart DVoiceR Manager

File Advanced Configuration Help

Smart DVoiceR Manager AddPac Technology

Smart DVoiceR Manager Board Users

Smart DVoiceR Manager Board Users

Group Name: ← **New Group Registration**

Description:

User

Board Users			Board Users in Group		
User ID	Name	Phone Number	User ID	Name	Phone Number
2002	james lee	2002			
cykim	cykim	1019			
kswoo	kswoo	2004			
kuhan	kuhan	1210			
mkkim	mkkim	1212			
syk	soyoun...	1027			
yhj	yhj	1016			
ymchoi	ymchoi...	6007			
hlyang	hlyang	2006			
jhlee	jhlee	1026			
jhson	jhson	2005			
jwwoo	jwwoo	1013			
iukim	iukim	2000			

OK Cancel

2007-06-15 오후 7:45:07 Ver. 1.0,2722 172.16.4.22:9200 root

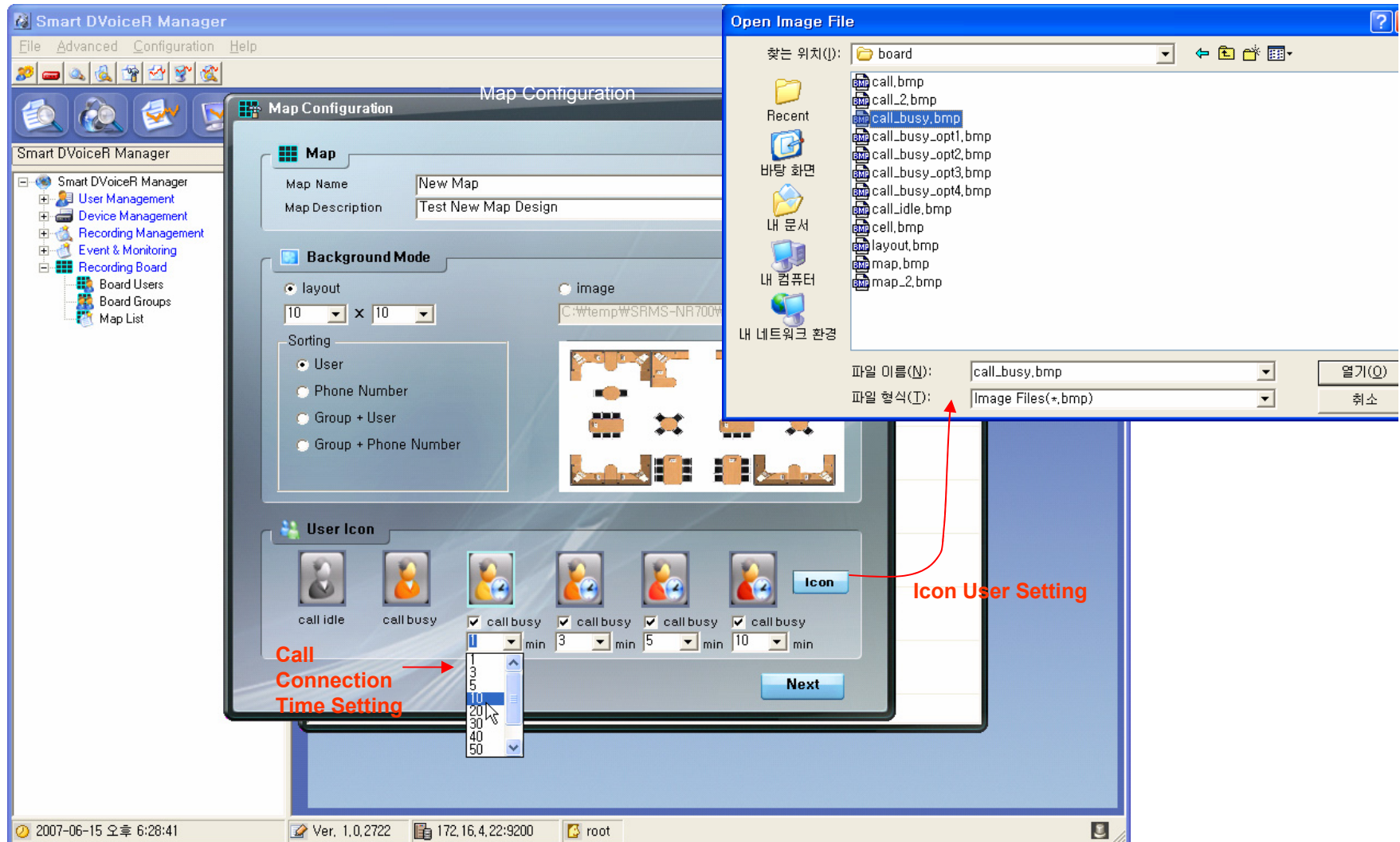
Recoding Board Management (Background Image (MAP) Selection)

The screenshot displays the Smart DVoiceR Manager application. The main window has a menu bar (File, Advanced, Configuration, Help) and a toolbar with icons for New Map Registration, Map Delete, and Map Configuration. A tree view on the left shows the application structure, with 'Map List' selected under 'Recording Board'. A 'Map List' dialog box is open, showing a table with the following data:

Map Name	Description	Map Image
Marketing Dept	Great Company Marketing Departm...	
Sales Dept	Great Company Sales Department	

Red arrows point from the 'New Map Registration', 'Map Delete', and 'Map Configuration' buttons to the 'Map List' dialog box. The status bar at the bottom shows the date and time (2007-06-14 오후 5:18:04), version (Ver. 1.0.2720), and IP address (172.16.4.22:9200).

Recoding Board Management (Layout Configuration)



Recoding Board Management

(Live Monitoring)

Map Configuration (edit)

Map Information Save

Dynamic Call Status Display (Icon Color)

Call Status Display

Call Connection Time Icon Display

Recording Board (Marketing Dept.)

AddPac Recording Board AddPac Technology

Save Config Auto-Insert Edit Map

kwon young p jhkwon senior manage kkim dhkim smkim ohs mwlee mjlee bmlee

senior assistan jhjeon kscho jschoi

Map Name: Marketing Dept.

Session Information: Total 14 Idle 6 Busy 8

User Icon: Call Idle Call Busy

Over 1 minutes Over 3 minutes Over 5 minutes Over 10 minutes

Recoding Board Management

(Call User Insert/Remove in MAP)

The screenshot displays the AddPac Recording Board Management interface for the Marketing Department. The main area is a grid of call user icons. A red arrow points to the 'Edit Map' button, labeled 'Call User List Display ON/OFF'. A red dashed arrow labeled 'insert' points from the 'Board Users' list to a grid cell. A red dashed arrow labeled 'remove' points from a grid cell to the 'Board Users' list. The 'Board Users' list on the right shows a hierarchy: BCN (with sub-users jhjeon, kkim, kwon youn..., mwlee, ohs, senior assi..., senior man..., smkim), NMS (with sub-users jhkwon, jschoi, mjlee), and SE (with sub-users bmlee, dhkim, kscho).

Recording Board (Marketing Dept.)

AddPac

Save Config Auto-Insert Edit Map Call User List Display ON/OFF

Board Users

BCN

- jhjeon
- kkim
- kwon youn...
- mwlee
- ohs
- senior assi...
- senior man...
- smkim

NMS

- jhkwon
- jschoi
- mjlee

SE

- bmlee
- dhkim
- kscho

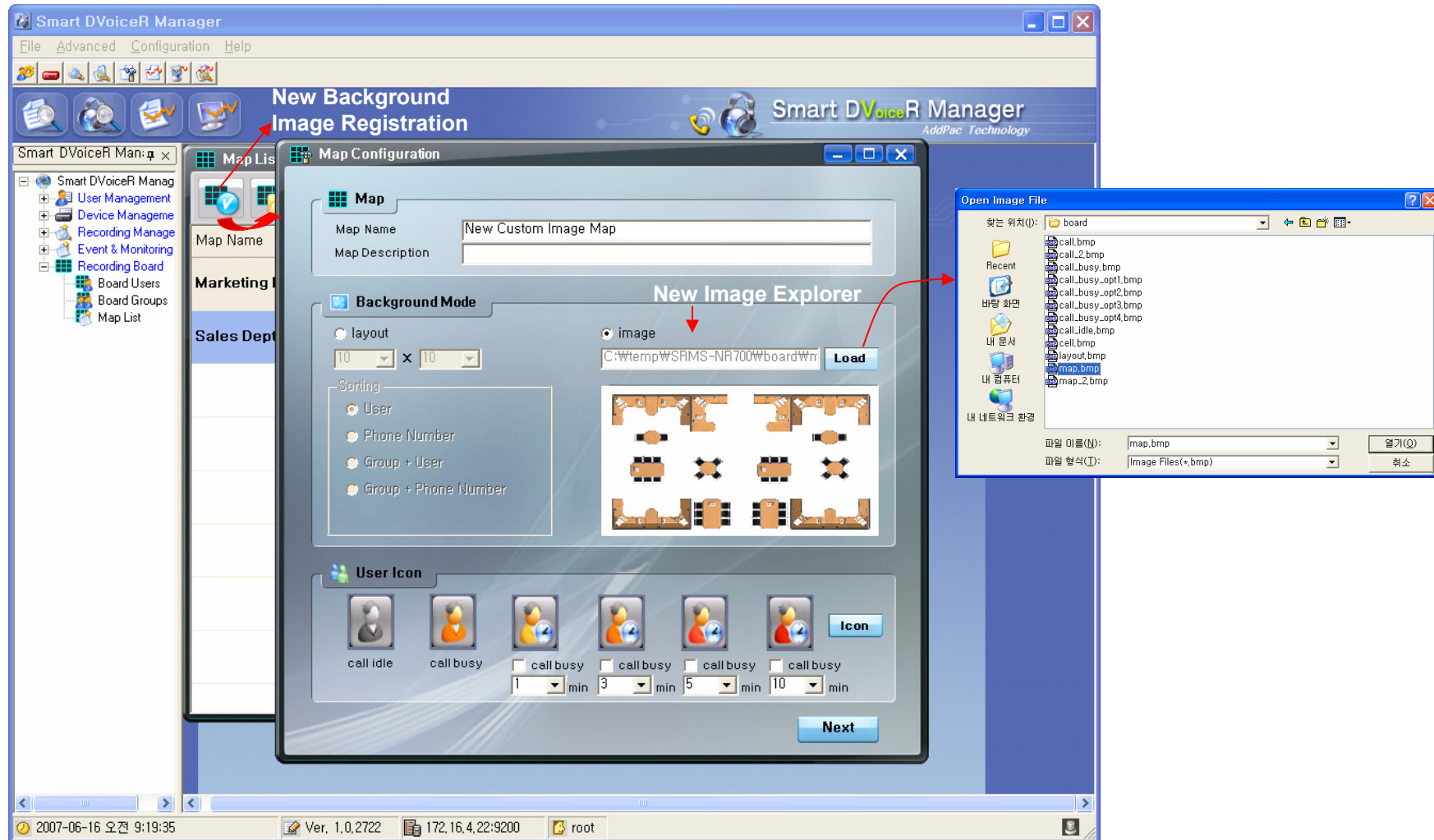
Call User Insert/Remove in MAP

Map Name: Marketing Dept.

Session Information: Total 14, Idle 4, Busy 10

User Icon: Call Idle, Call Busy, Over 1 minutes, Over 3 minutes, Over 5 minutes, Over 10 minutes

Recoding Board Management (Background Image Loading)



Recoding Board Management

(Call User Registration in Background MAP image)

The screenshot displays the 'Recording Board' software interface. The main window shows a floor plan with several workstations, each with a user icon and name. The user list on the right is organized into groups: BCN, NMS, and SE. The status bar at the bottom provides session information and user icon legends.

Recording Board (New Custom Image Map)

AddPac | **Recording Board**
AddPac Technology

Save | Config | Auto-Insert | Edit Map

Board Users

- BCN
 - jhjeon
 - kkim
 - kwon young ...
 - mwlee
 - ohs
 - senior ass...
 - senior mana...
 - smkim
- NMS
 - jhkwon
 - jschoi
 - mjlee
- SE
 - bmlee
 - dhkim
 - kscho

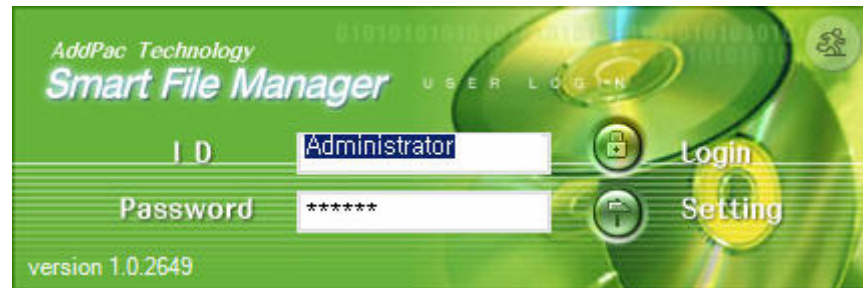
Map Name: New Custom Image Map | **Session Information:** al 12 | Idle 2 | Busy 10

User Icon Legend:

- Call Idle
- Call Busy
- Over 1 minutes
- Over 3 minutes
- Over 5 minutes
- Over 10 minutes

Smart File Manager

(Login)



Smart File Manager

(Recorded Call List Search)

Smart File Manager
File Management Help

AddPac Smart File Manager
AddPac Technology

Search Target: Remote Database Start: 2007년 5월 4일 금요일 End: 2007년 5월 4일 금요일 Search Advanced (Total: 1255) (Page 1/2)

Remote Database (172.17.101.251)

Start Time	End Time	Duration	Calling Number	Calling User	Called Number	Called User	Recording Source
2007-05-04 05:28:40	2007-05-04 05:29:07	00:00:27	5000		1015		172.17.213.100
2007-05-04 05:29:26	2007-05-04 05:29:53	00:00:27	5000		1015		172.17.213.100
2007-05-04 05:30:02	2007-05-04 05:30:29	00:00:27	5000		1015		172.17.213.100
2007-05-04 05:30:56	2007-05-04 05:31:34	00:00:38	5000		1015		172.17.213.100
2007-05-04 05:32:09	2007-05-04 05:32:36	00:00:27	5000		1015		172.17.213.100
2007-05-04 05:33:12	2007-05-04 05:33:39	00:00:27	5000		1015		172.17.213.100
2007-05-04 05:34:24	2007-05-04 05:34:51	00:00:27	5000		1015		172.17.213.100
2007-05-04 05:35:18	2007-05-04 05:35:45	00:00:27	5000		1015		172.17.213.100
2007-05-04 05:36:21	2007-05-04 05:36:48	00:00:27	5000		1015		172.17.213.100
2007-05-04 05:36:57	2007-05-04 05:37:24	00:00:27	5000		1015		172.17.213.100
2007-05-04 05:37:33	2007-05-04 05:38:00	00:00:27	5000		1015		172.17.213.100

Local Database (127.0.0.1)

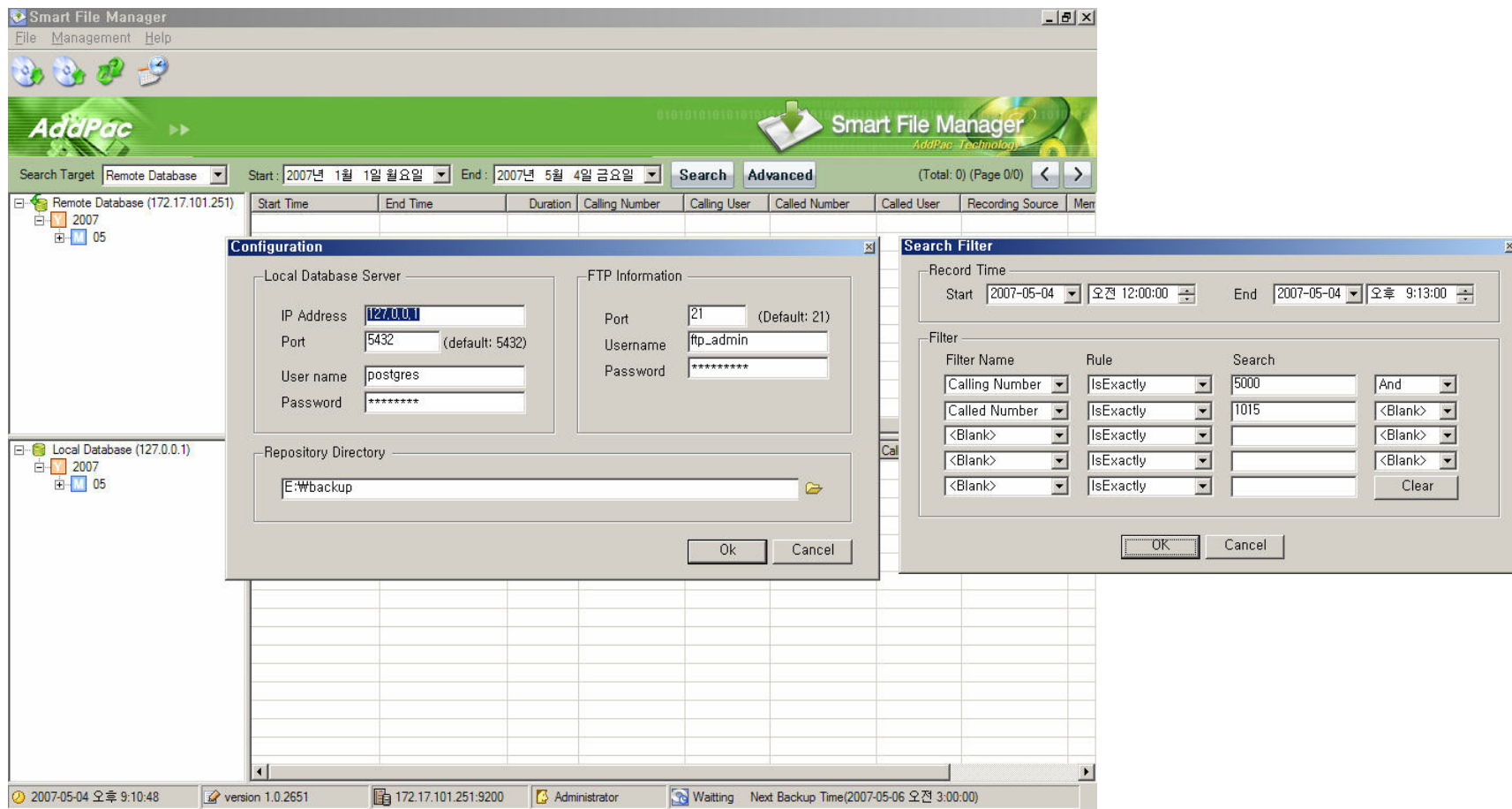
Start Time	End Time	Duration	Calling Number	Calling User	Called Number	Called User	Recording Source	Men
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Status Display

2007-05-04 오후 9:16:57 version 1.0.2651 172.17.101.251:9200 Administrator Waiting Next Backup Time(2007-05-06 오전 3:00:00)

Smart File Manager

(Configuration and Search Filter)



Smart File Manager

(Call List Properties)

The screenshot displays the Smart File Manager interface. The main window shows a search results table for a 'Remote Database (172.17.101.251)'. A context menu is open over the selected row, with 'Properties' highlighted. A 'Recording Session Information' dialog box is overlaid on top, showing details for the selected recording session.

Start Time	End Time	Duration	Calling Number	Calling User	Called Number	Called User	Recording Source
2007-05-04 05:28:40	2007-05-04 05:29:07	00:00:27	5000		1015		172.17.213.100
2007-05-04 05:28:41	2007-05-04 05:29:08	00:00:27	5012		1027		172.17.213.100
2007-05-04 05:28:42	2007-05-04 05:29:09	00:00:27	6007		1007		172.17.213.100
2007-05-04 05:28:42	2007-05-04 05:29:09	00:00:27	6001		1001		172.17.213.100
2007-05-04 05:28:46		00:00:27	6008		1008		172.17.213.100
2007-05-04 05:28:47		00:00:27	5013		1028		172.17.213.100
2007-05-04 05:28:50		00:00:27	6011		1011		172.17.213.100
2007-05-04 05:28:54		00:00:27	5005		1020		172.17.213.100
2007-05-04 05:28:58							
2007-05-04 05:28:58	2007-05-04 05:29:26						
2007-05-04 05:28:59	2007-05-04 05:29:26						

Filename	Start Time	End Time	Duration	Size	Codec
2460720070503202842...	2007-05-04 05:28:42	2007-05-04 05:29:09	00:00:27	146 KB	
2460720070503202842...	2007-05-04 05:28:42	2007-05-04 05:29:09	00:00:27	174 KB	

Smart File Manager

(Server to Local Backup)

Smart File Manager

(Server to Local Backup)

The screenshot displays the Smart File Manager application window. The main interface shows a tree view on the left with 'Remote Database (172.17.101.251)' and 'Local Database (127.0.0.1)'. The 'Download' window is open, showing a list of files being downloaded from the remote database to the local backup directory 'E:\Wbackup'. The download progress is 41/1996 files.

File Name	Duration	Size	DateTime	Status
✓ callrecfiles/20070504/2460120070...	00:00:27	147 KB	2007-05-04 05:2...	Done
✓ callrecfiles/20070504/2460120070...	00:00:27	178 KB	2007-05-04 05:2...	Done
✓ callrecfiles/20070504/2461320070...	00:00:27	147 KB	2007-05-04 05:2...	Done
✓ callrecfiles/20070504/2461320070...	00:00:27	174 KB	2007-05-04 05:2...	Done
✓ callrecfiles/20070504/2462320070...	00:00:27	147 KB	2007-05-04 05:2...	Done
✓ callrecfiles/20070504/2462320070...	00:00:27	178 KB	2007-05-04 05:2...	Done
✓ callrecfiles/20070504/2462620070...	00:00:27	146 KB	2007-05-04 05:2...	Done
✓ callrecfiles/20070504/2462620070...	00:00:27	176 KB	2007-05-04 05:2...	Done
✓ callrecfiles/20070504/2464120070...	00:00:27	144 KB	2007-05-04 05:2...	Done
✓ callrecfiles/20070504/2464120070...	00:00:27	176 KB	2007-05-04 05:2...	Done
✓ callrecfiles/20070504/2464320070...	00:00:27	146 KB	2007-05-04 05:2...	Done

Download Directory: E:\Wbackup

File: callrecfiles/20070504/2460220070503202840-223541-5012-S downloading.. (41/1996)
 Received Size: 146,140 / 146,140 Bytes
 Total Size: 6,599,380 / 321,517,396 Bytes Progress Time: 00:00:01

Buttons: Start, Cancel, Close

System tray: 2007-05-04 오후 9:40:36, version 1.0.2651, 172.17.101.251:9200, Administrator, Waiting, Next Backup Time(2007-05-06 오전 3:00:00)

Smart File Manager

(Periodical Backup)

The screenshot displays the Smart File Manager application interface. A 'Schedule Setting' dialog box is open, showing configuration options for a backup task. The 'Recording Source' is set to '172.17.213.100'. The 'Scheduler Run / Stop' checkbox is checked. The 'Schedule Date' is configured as 'Daily' with 'Every 1 Days'. The 'Start Time' is set to '14:24:00'. Under 'Option', 'Download to file overwrite' is checked, and 'Delete files after download' is unchecked. The 'Directory' is set to 'E:\backup'. The background shows a tree view of databases and a table of backup records.

er	Called User	Recording Source
		172.17.213.100
		172.17.213.100
		172.17.213.100
		172.17.213.100
		172.17.213.100
		172.17.213.100
		172.17.213.100
		172.17.213.100
		172.17.213.100
		172.17.213.100
		172.17.213.100
		172.17.213.100
		59.10.37.177
		59.10.37.177
		59.10.37.177
		59.10.37.177
		59.10.37.177
		59.10.37.177
		59.10.37.177
		59.10.37.177
		59.10.37.177
		59.10.37.177
		59.10.37.177
		59.10.37.177
		59.10.37.177
		59.10.37.177
		59.10.37.177
		59.10.37.177

2007-05-22 19:19:52	2007-05-22 19:31:38	00:11:46	1118	01198591304	59.10.37.177
2007-05-22 19:21:46	2007-05-22 19:22:49	00:01:03	813	0312455365	59.10.37.177
2007-05-22 19:24:38	2007-05-22 19:36:53	00:12:15	2000	024251201	59.10.37.177
2007-05-22 19:30:36	2007-05-22 19:41:48	00:11:12	1025	0522115513	59.10.37.177
2007-05-22 19:30:37	2007-05-22 19:43:37	00:13:00	15990530	0118297458	59.10.37.177
2007-05-22 19:36:23	2007-05-22 19:48:58	00:12:35	1601	01191985531	59.10.37.177

2007-05-12 오후 5:10:27 version 1.0.2649 172.17.101.251:9200 Administrator Waiting Next Backup Time(2007-05-13 오후 2:24:00)



Thank you!

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