

# 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](http://www.addpac.com)

# Contents

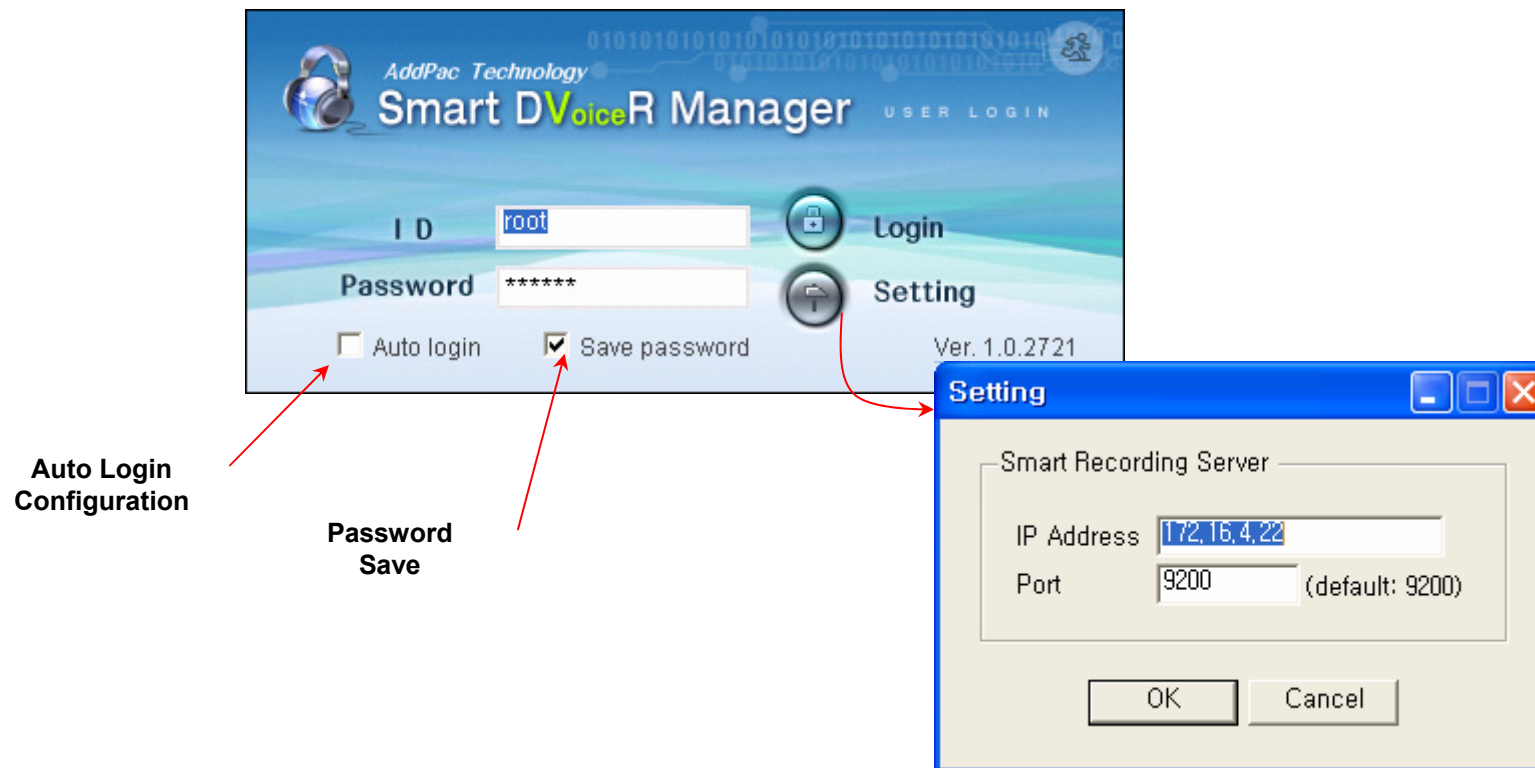
- Overview
- Smart Digital Voice Recorder Manager
- Smart File Manager for Secondary Backup



# 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 divided into a left sidebar and a main pane. The sidebar contains a tree view with the following items: Smart DVoiceR Manager, User Management, Users, Device Management, Smart Recording Server, Smart Recording Terminal, Recording Management, Record Search, Record Session, Event & Monitoring, Event Configuration, Event Monitoring, System Monitoring, Event History, Recording Board, Board Users, Board Groups, and Map List. The main pane is titled "Users" and contains a table with the following data:

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

Annotations with red arrows point to the following features:

- New Manager Registration**: Points to the "Add" icon (a person with a plus sign) in the top left of the Users pane.
- Manager Information Modification**: Points to the "Edit" icon (a person with a pencil) in the top left of the Users pane.
- Manager Delete**: Points to the "Delete" icon (a person with a minus sign) in the top left of the Users pane.

The status bar at the bottom of the application shows the date and time "2007-06-13 오후 1:43:49", the version "Ver. 1.0.2719", the IP address "172.16.31.14:9200", and the user "root".

# Recording Server Status Monitoring

The screenshot shows the Smart DVoiceR Manager interface. The main window displays the 'Smart Recording Server Status' with a play button icon and the IP address 172.16.31.14:9200. A secondary window shows the 'Client Session List' table with one entry for user 'root'.

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

**Client List**



# 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, showing search criteria for 'Calling Number' (2000) and 'Called Number' (3000). A playback control window is overlaid on the table, showing 'AddPac calling-3004/called-5020' with a progress bar and a 'Memo Save' button. The playback window also displays 'Record Information' and 'Call Information' details.

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 13:12:16	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 13:12:16	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 13:12:16	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 13:12:17	2007-06-13 13:12:17	00:00:00	00:00:00				5024		6/0/0
10	39518	172.17.213.100	2007-06-13 13:12:17	2007-06-13 13:12:17	00:00:00	00:00:00				5025		6/1/0
11	39520	172.17.213.100	2007-06-13 13:12:17	2007-06-13 13:12:17	00:00:00	00:00:00				5026		6/2/0
12	39522	172.17.213.100	2007-06-13 13:12:16	2007-06-13 13:12:16	00:00:00	00:00:00				5027		6/3/0
13	39524	172.17.213.100	2007-06-13 13:12:16	2007-06-13 13:12:16	00:00:00	00:00:00				5028		7/0/0
14	39526	172.17.213.100	2007-06-13 13:12:17	2007-06-13 13:12:17	00:00:00	00:00:00				5029		7/1/0
15	39528	172.17.213.100	2007-06-13 13:12:17	2007-06-13 13:12:17	00:00:00	00:00:00				5030		7/2/0
16	39529	172.17.213.100	2007-06-13 13:12:17	2007-06-13 13:12:17	00:00:00	00:00:00				5031		7/3/0
17	39498	172.17.213.100	2007-06-13 13:12:17	2007-06-13 13:12:17	00:00:00	00:00:00				2000		0/0/0
18	39499	172.17.213.100	2007-06-13 13:12:17	2007-06-13 13:12:17	00:00:00	00:00:00				2001		0/1/0
19	39501	172.17.213.100	2007-06-13 13:12:17	2007-06-13 13:12:17	00:00:00	00:00:00				2002		0/2/0





# Recording File Waveform Analyzer



# Recording File Waveform Analyzer (Repeated Play)



# Recording File Waveform Analyzer (Bookmark Play)

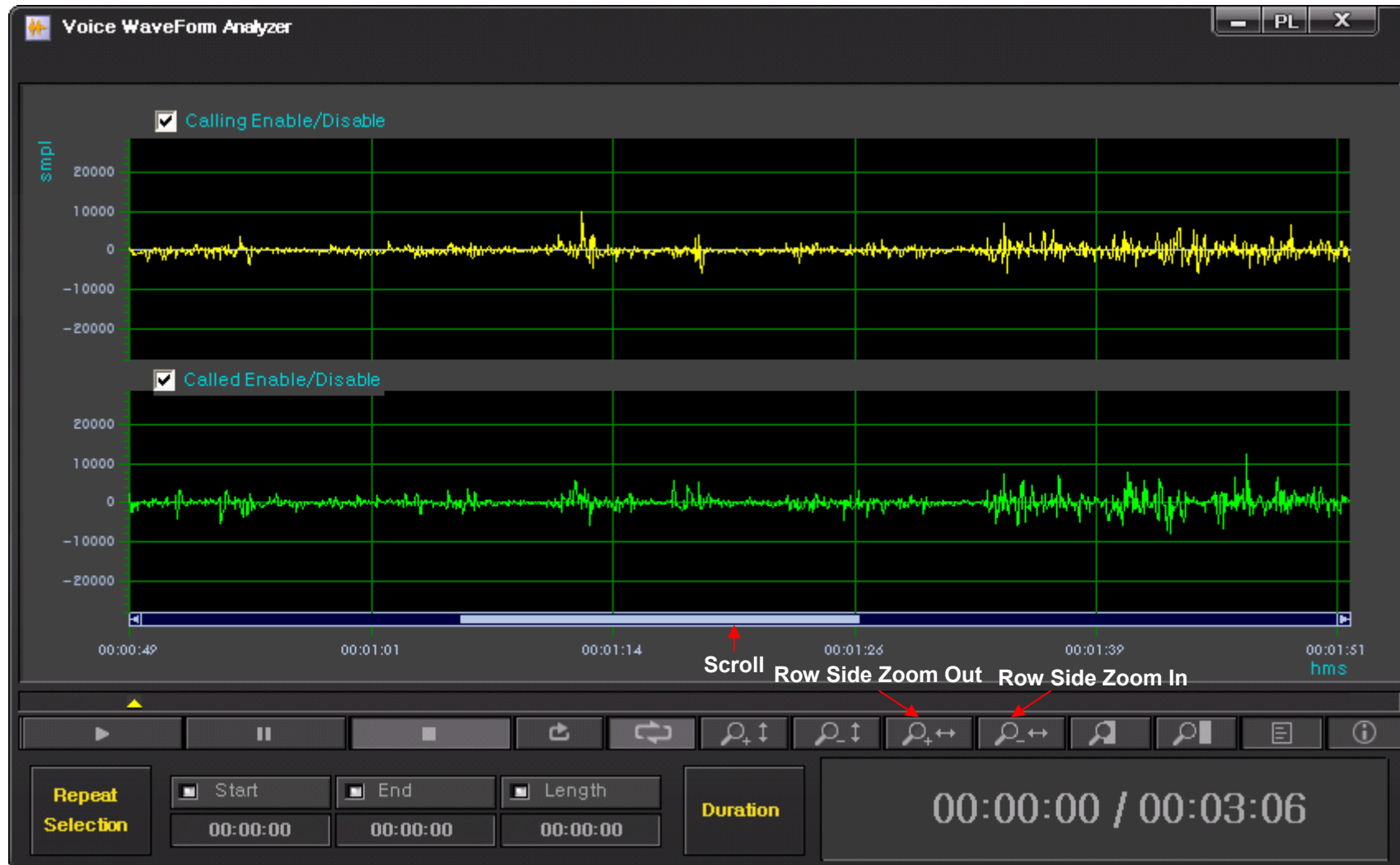
The screenshot displays the 'Voice WaveForm Analyzer' application. It features two stacked waveform plots. The top plot is yellow and labeled 'Calling Enable/Disable', and the bottom plot is green and labeled 'Called Enable/Disable'. Both plots have a vertical axis labeled 'smpl' ranging from -20000 to 20000 and a horizontal axis with time markers from 00:00:00 to 00:03:05. A 'Bookmark' is indicated by a yellow pushpin on the bottom 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'.

# Recording File Waveform Analyzer (Column Side Zooming)

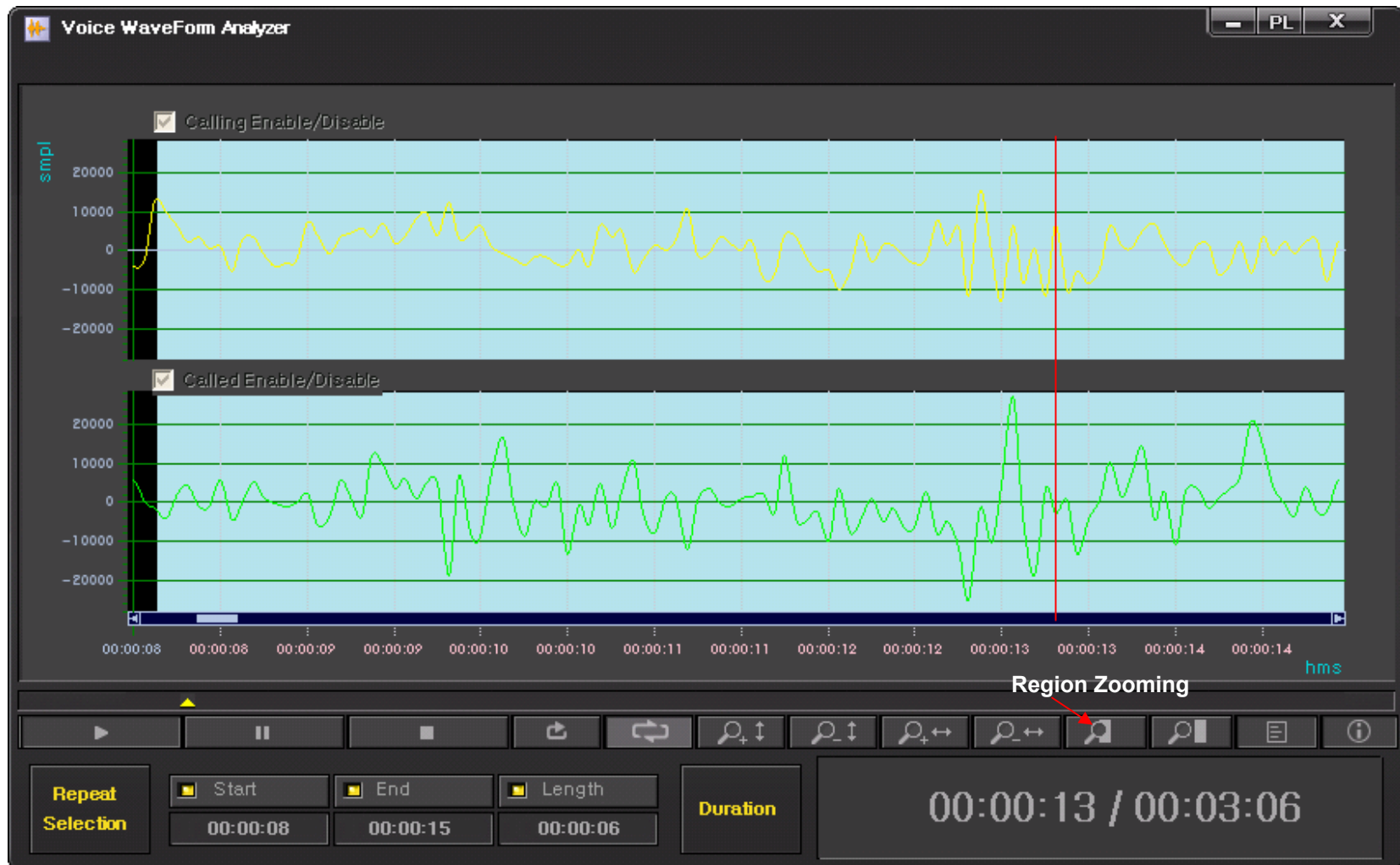


# Recording File Waveform Analyzer

(Row Side Zooming)



# Recording File Waveform Analyzer (Region Zooming)





# Recording File Waveform Analyzer

(Call Info. Display)

The screenshot shows the 'Voice WaveForm Analyzer' application interface. It features two waveform displays: a top one in yellow and a bottom one in green. A central 'Record Information' window is open, displaying call details. Below the waveforms is a control panel with playback buttons and a 'Repeat Selection' section. A red arrow points from the 'Call Info. Display' label to the information icon in the control panel.

**Record Information**

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

**Call Info. Display**

Original View Mode  
00:00:11 / 00:03:06

# Live Call Recording List and Monitoring

The screenshot displays the Smart DVoiceR Manager interface. The main window shows a 'Current Call List Display' with a 'Live Play' button and a 'List Update Time' indicator. A 'Refresh Interval' of 5 seconds is set. The list contains 37 entries with columns for No., Call ID, Source IP, Rec StartTime, Initiated Time, Established Time, Call Duration, Calling Num, Calling User, Calling SI..., and Calling Trans... A modal window titled 'AddPac' is open, showing 'calling-3006/called-5022' with a 'Live' button and a progress bar. Below this, 'Record Information' and 'Call Information' are displayed, including start/end times and durations. The 'Calling Party' and 'Called Party' sections show details like DialNumber (3006 and 5022), User, Codec (G711U), and Directory paths. The status bar at the bottom shows the date 2007-06-13, time 3:22:47, version 1.0.2720, and IP address 172.16.4.22:9200.

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

- Smart DVoiceR Manager
  - User Management
    - Users
  - Device Management
    - Smart Recording Server
    - Smart Recording Terminal
  - Recording Management
    - Record Search
    - Record Session
  - Event & Monitoring
    - Event Configuration**
    - Event Monitoring
    - System Monitoring
    - Event History
  - Recording Board
    - Board Users
    - Board Groups
    - Map List

**Event level Configuration**

**Sound Play On/Off at Server Emergency Event Occurring**

**Server IP address**

**Event Port Number**

**Realtime event level Setting**

**Event logging level Setting**

Event Configuration

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 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 Configuration

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 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

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. The navigation tree has the following structure:

- Smart DVoiceR Manager
  - User Management
  - Users
  - Device Management
    - Smart Recording Server
    - Smart Recording Terminal
  - Recording Management
    - Record Search
    - Record Session
  - Event & Monitoring
    - Event Configuration
    - Event Monitoring
    - System Monitoring
    - Event History
  - Recording Board
    - Board Users
    - Board Groups
    - Map List

Annotations in red text point to specific features:

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

The bottom section of the interface shows an 'Event Monitoring' window with a table of events:

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 ;

The status bar at the bottom shows: 2007-06-14 오후 4:28:57, Ver. 1.0.2720, 172.16.4.22:9200, root.

# Event Management (System Monitoring)

The screenshot displays the 'System Monitoring' window of the Smart DVoiceR Manager. The interface includes a tree view on the left, a main performance dashboard, and a status bar at the bottom.

**System Monitoring Performance Metrics:**

- CPU Usage:** 40 %
- Memory Usage:** 61 MB
- Trans Codec Usage:** Max: 128, 54

**System Resource Summary:**

Resource	Total	Available	Used	Used(%)
CPU	100	0	0	0
Memory	254752 KB	171860 KB	82892 KB	32,54
Transcoding Channel	128	0	0	0
HDD	304273 MB	138124 MB	166149 MB	54,61

**Disk Usage:**

- rootfs (/):** 2.00 GB / 3.00 GB
- /dev/hda1 (/mnt/hda1):** 139.00 GB / 300.00 GB

**Status Bar:** 2007-06-14 오후 4:38:08 | Ver. 1,0,2720 | 172.16.4.22:9200 | root



# Event Management

## (Event History)

**Event Search Time Setting**

Start : 2007-06-14 00:00:00  
End : 2007-06-14 23:59:59

**Event category**

Recording : Debug  
 Play : Debug  
 System : Debug

**Search Condition Setting**

Filter Name : Event  
Rule : IsExactly  
Search :

**Smart DVoiceR Manager**

- Smart DVoiceR Manager
  - User Management
  - Users
  - Device Management
    - Smart Recording Server
    - Smart Recording Terminal
  - Recording Management
    - Record Search
    - Record Session
  - Event & Monitoring
    - Event Configuration
    - Event Monitoring
    - System Monitoring
    - Event History
  - Recording Board
    - Board Users
    - Board Groups
    - Map List

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 :

2007-06-14 오후 4:33:05 Ver. 1.0.2720 172.16.4.22:9200 root



# Recording 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, showing a list of users with columns for User ID, Name, and Phone Number. It includes a filter section and 'OK' and 'Cancel' buttons.
- Add Board User:** A dialog for adding a new user, with fields for User ID, User Name, Description, and Group. It also includes a 'Phone Numbers' section with an 'Add' button and 'OK' and 'Cancel' buttons.
- 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 box, and from the 'Import' option to the 'Import Board Users' dialog box. 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	jykim	jykim	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

# Recording Board Management (Call Group Registration)

Smart DVoiceR Manager

File Advanced Configuration Help

Smart DVoiceR Manager

Board Users

No. User ID Name Phone Number Description Group

1

2

3

4

5

6

7

8

9

10

11

12

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

**Add Board Group**

Group Name: New Service Group

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

# Recording Board Management

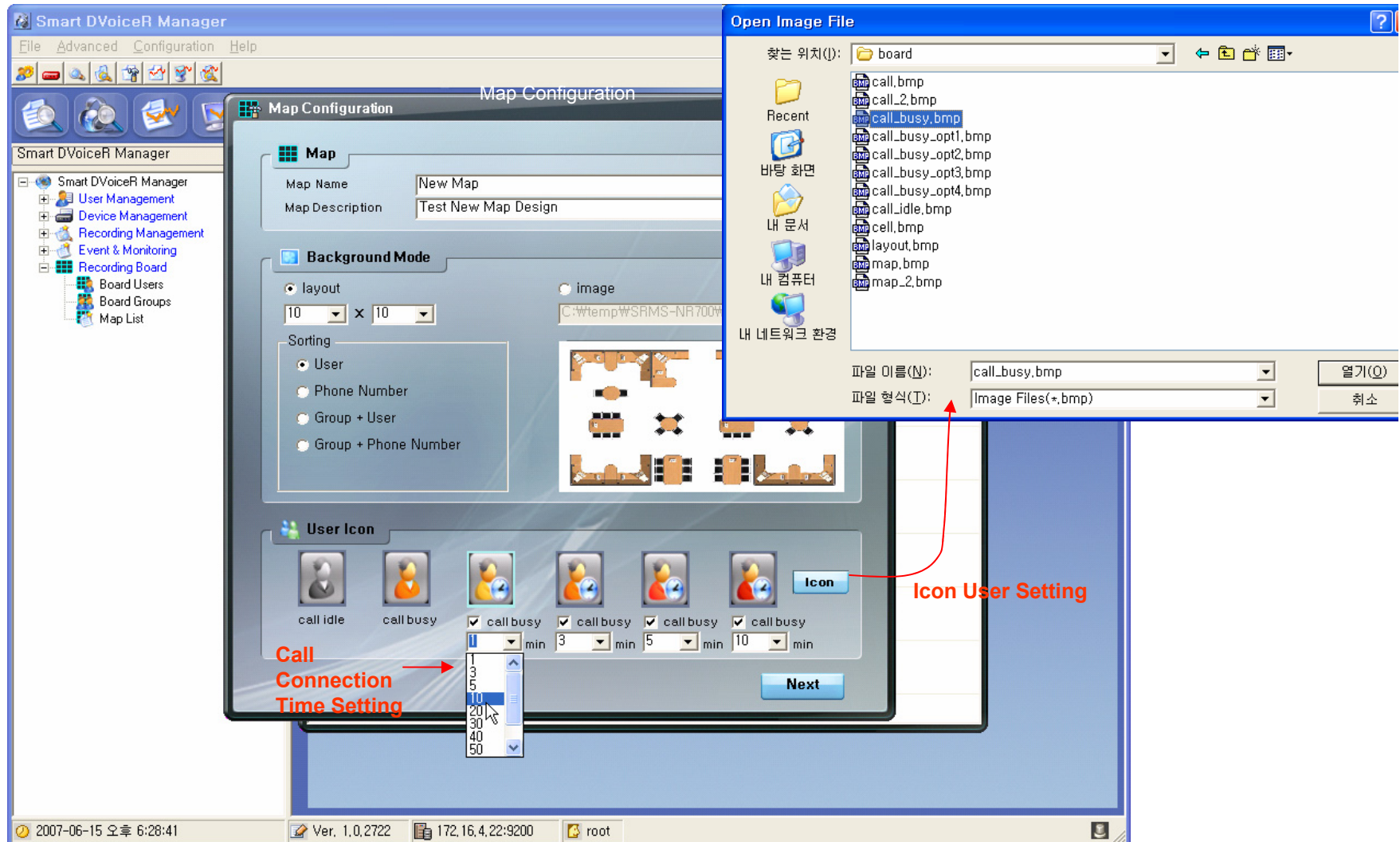
## (Background Image (MAP) Selection)

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), IP address (172.16.4.22:9200), and user (root).

# Recording Board Management (Layout Configuration)



# Recording Board Management

(Live Monitoring)

Map Configuration (edit)

Map Information Save

Recording Board (Marketing Dept.)

AddPac Recording Board AddPac Technology

Save Config Auto-Insert Edit Map

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

senior assistan jhjeon kscho jschoi

Dynamic Call Status Display (Icon Color)

Call Status Display Call Connection Time Icon Display

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



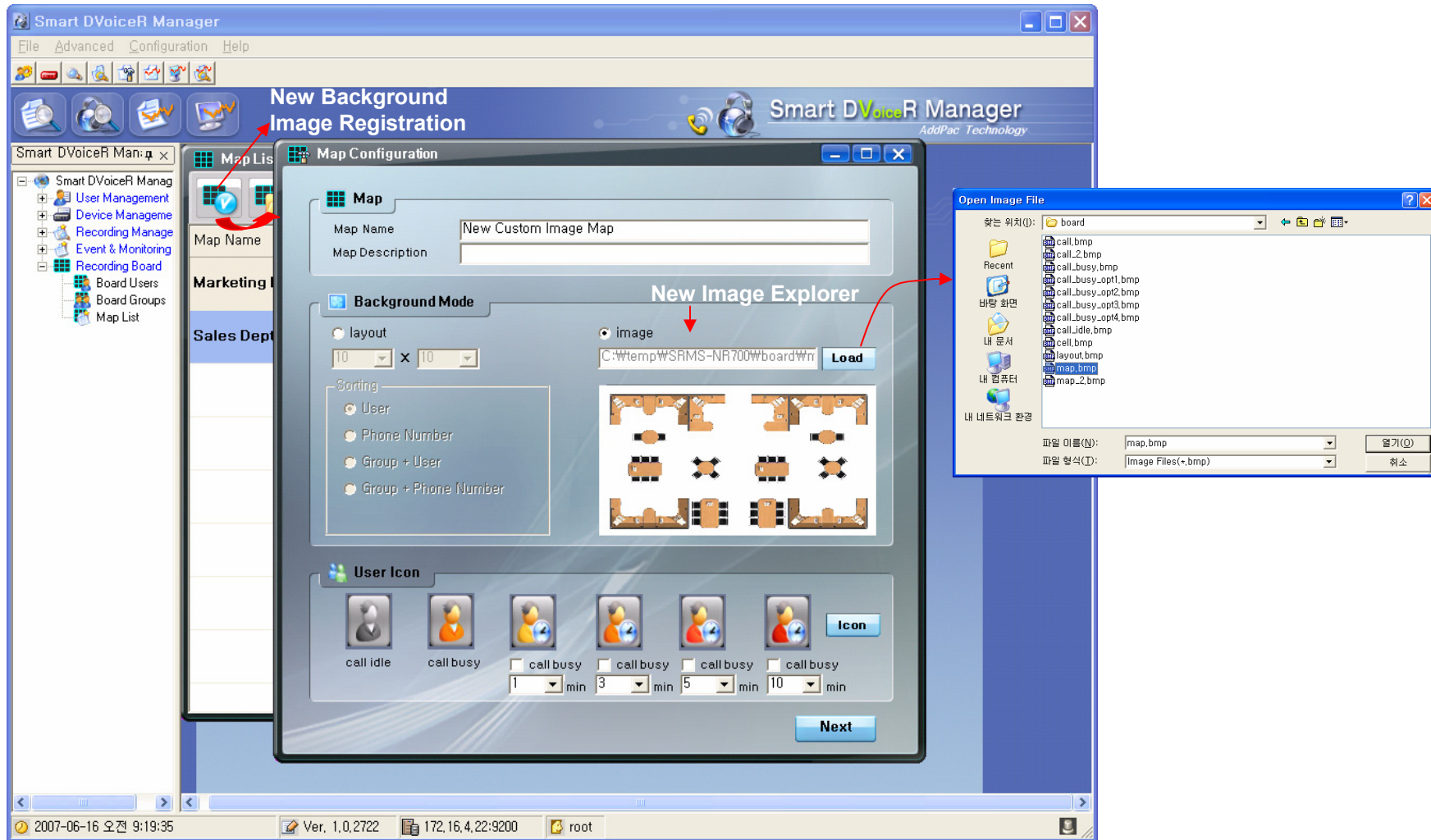
# Recording Board Management

(Call User Insert/Remove in MAP)

The screenshot displays the 'Recording Board (Marketing Dept.)' interface. At the top, there is a menu bar with 'Save', 'Config', 'Auto-Insert', and 'Edit Map' options. A red arrow points from the 'Edit Map' button to the 'Call User List Display ON/OFF' label. The main area is a grid of call user icons. A red dashed arrow labeled 'insert' points from the 'Board Users' list to a specific user icon in the grid. Another red dashed arrow labeled 'remove' points from a user icon in the grid back to the 'Board Users' list. The 'Board Users' list on the right is organized into categories: BCN, NMS, and SE. The BCN category includes users like jhjeon, kkim, kwon youn..., mwlee, ohs, senior assi..., and senior man... The NMS category includes jhkwon, jschoi, and mjlee. The SE category includes bmlee, dhkim, and kscho. At the bottom, there is a status bar with 'Map Name' (Marketing Dept.), 'Session Information' (Total 14, Idle 4, Busy 10), and 'User Icon' settings for Call Idle and Call Busy, with time thresholds for Over 1, 3, 5, and 10 minutes.



# Recording Board Management (Background Image Loading)



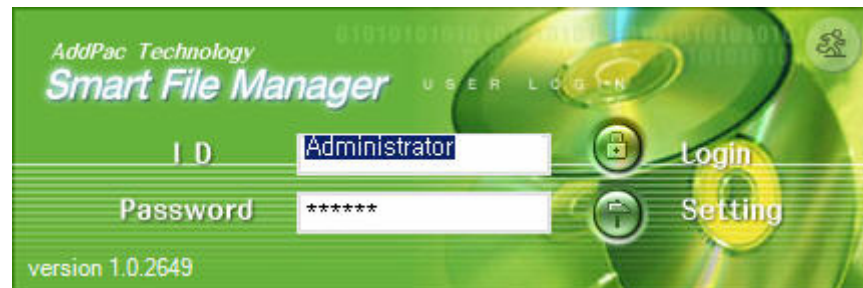
# Recoding Board Management

(Call User Registration in Background MAP image )

The screenshot displays the AddPac Recording Board software interface. The main window is titled "Recording Board(New Custom Image Map)" and features a menu bar with "Save", "Config", "Auto-Insert", and "Edit Map". The central area shows a floor plan with several workstations, each with a user icon and name: "ohs", "senior assistan", "mwlee", "jheon", "kkim", "dhkim", "mjlee", "jschoi", "smkim", "jhwon", "bmllee", and "kscho". A "Board Users" list on the right side shows a hierarchy of users: BCN (jhjeon, kkim, kwon young ..., mwlee, ohs, senior ass..., senior mana..., smkim), NMS (jhwon, jschoi, mjlee), and SE (bmllee, dhkim, kscho). The bottom status bar includes "Map Name" (New Custom Image Map), "Session Information" (Total 12, Idle 2, Busy 10), and "User Icon" settings for Call Idle, Call Busy, and call duration thresholds (Over 1, 3, 5, and 10 minutes).

# Smart File Manager

(Login)



# Smart File Manager

## (Recorded Call List Search)

The screenshot displays the 'Smart 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 'Remote Database'. The search criteria are: Start: 2007년 5월 4일 금요일, End: 2007년 5월 4일 금요일. The search results are displayed in a table with the following columns: Start Time, End Time, Duration, Calling Number, Calling User, Called Number, Called User, and Recording Source. The table contains 12 rows of data, all with a duration of 00:00:27 and a recording source of 172.17.213.100. The interface also shows a local database section which is currently empty. The status bar at the bottom indicates the current date and time (2007-05-04 오후 9:16:57), the software version (1.0.2651), the user (Administrator), and the next backup time (2007-05-06 오전 3:00:00).

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

Search List (Server)

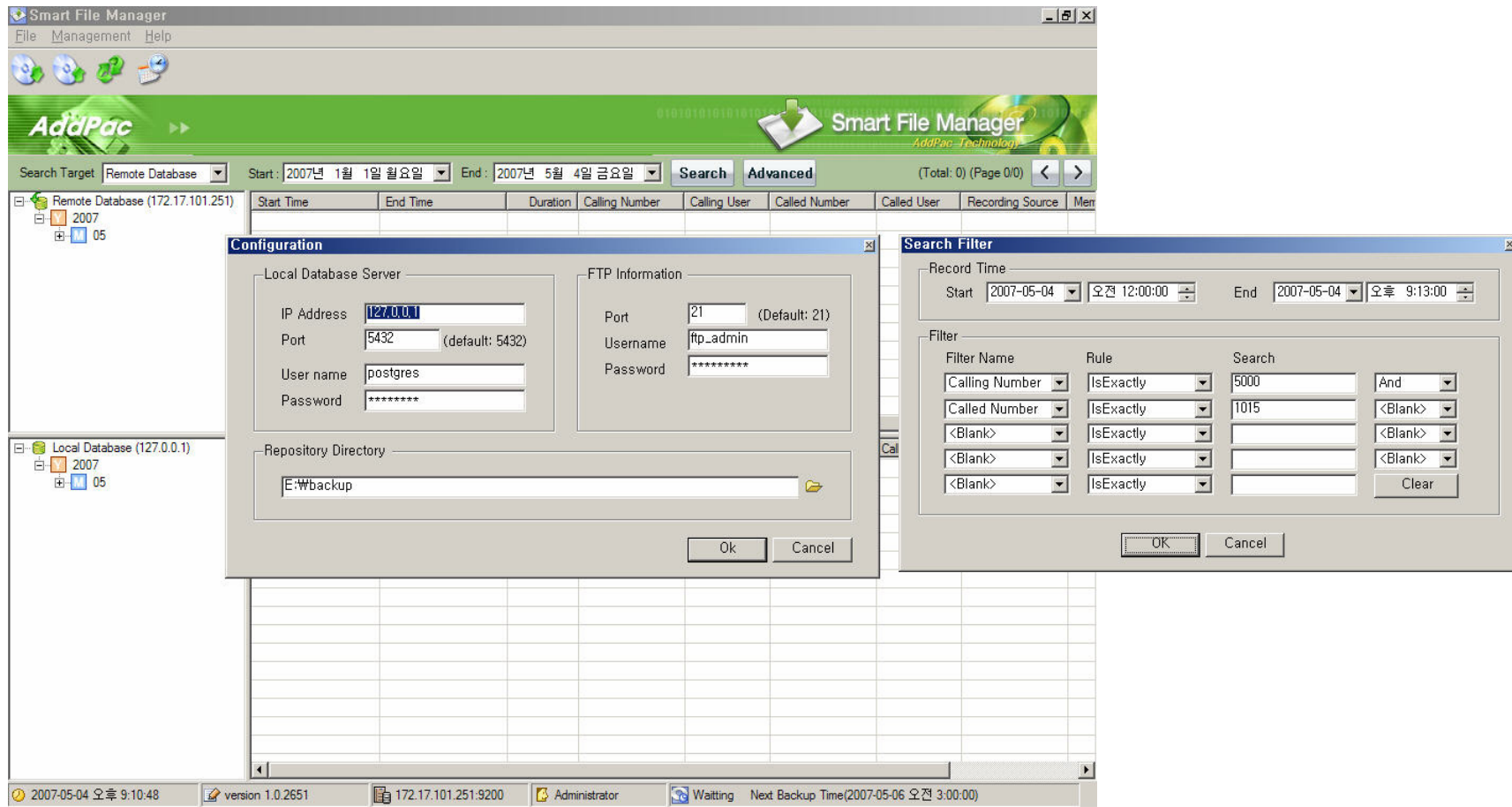
Search List (Local)

Status Display



# 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 call list. A context menu is open over the selected row, with the 'Properties' option highlighted. A secondary window titled 'Recording Session Information' is overlaid on top, showing details for the selected recording file.

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	2007-05-04 05:29:13	00:00:27	6008		1008		172.17.213.100
2007-05-04 05:28:47	2007-05-04 05:29:14	00:00:27	5013		1028		172.17.213.100
2007-05-04 05:28:50	2007-05-04 05:29:17	00:00:27	6011		1011		172.17.213.100
2007-05-04 05:28:54	2007-05-04 05:29:21	00:00:27	5005		1020		172.17.213.100
2007-05-04 05:28:58	2007-05-04 05:29:25	00:00:27					
2007-05-04 05:28:59	2007-05-04 05:29:26	00:00:27					

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)

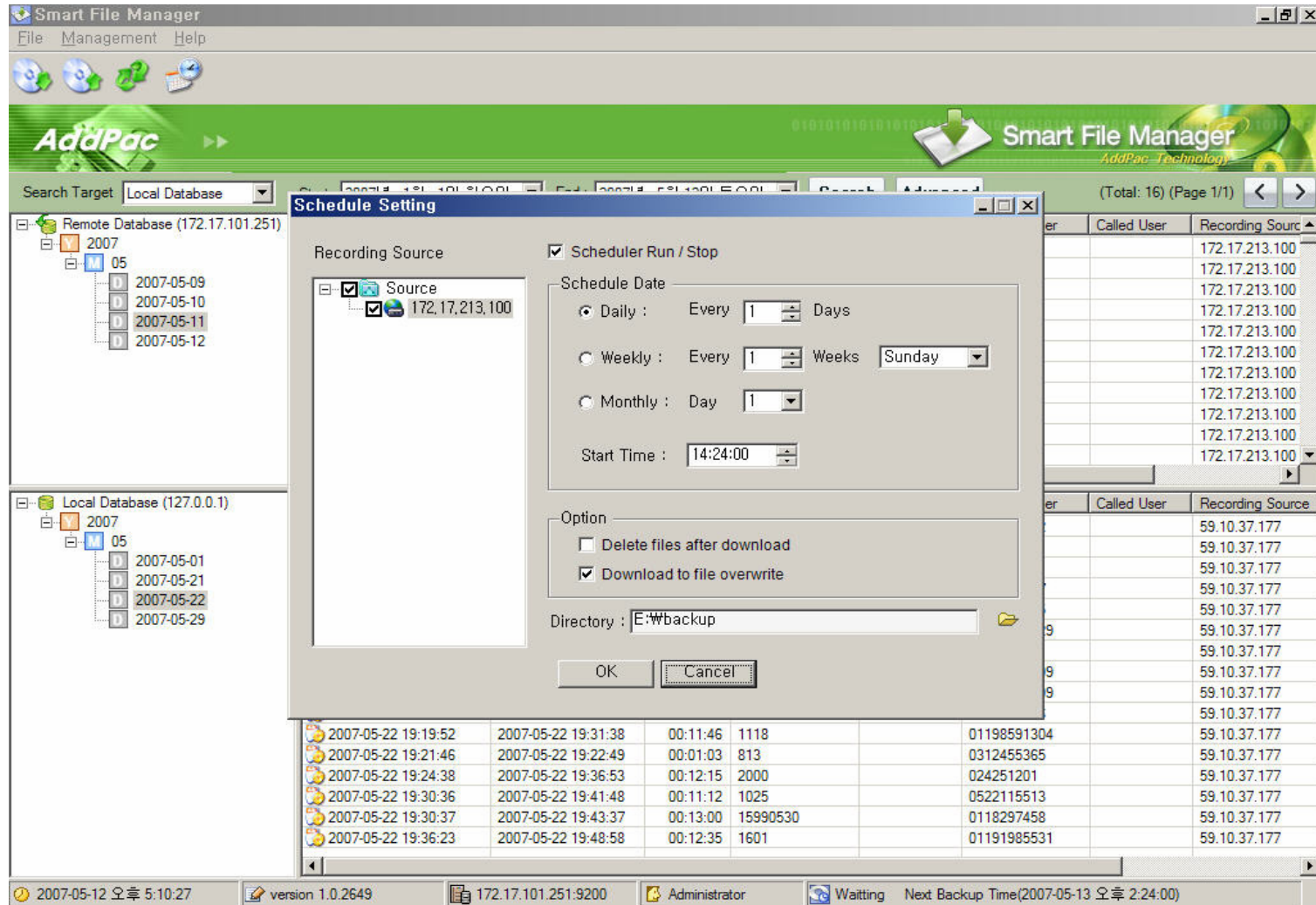
The screenshot displays the Smart File Manager application window. The main interface shows a tree view on the left with 'Remote Database (172.17.101.251)' and 'Local Database (127.0.0.1)'. A 'Download' dialog box is open in the center, showing a list of files being downloaded from the remote database to the local directory 'E:\Wbackup'. The dialog includes a progress bar and a status message: 'File: callrecfiles/20070504/2460220070503202840-223541-5012-S downloading.. (41/1996)'. The status bar at the bottom indicates the current date and time as '2007-05-04 오후 9:40:36' and the user as 'Administrator'.

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

Recording Source	Memo
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	

Called User	Recording Source	Memo

# Smart File Manager (Periodical Backup)





# Thank you!

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