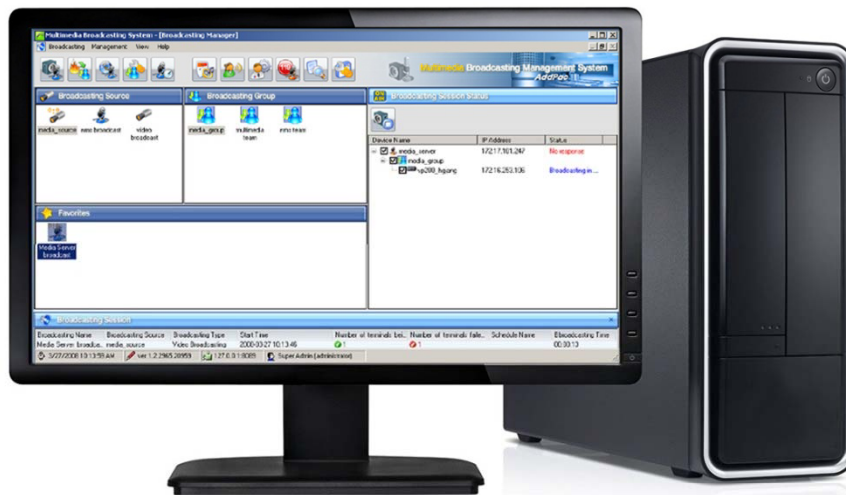


AP-WBS

Window based IP Broadcasting Server

Preliminary Product Overview

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



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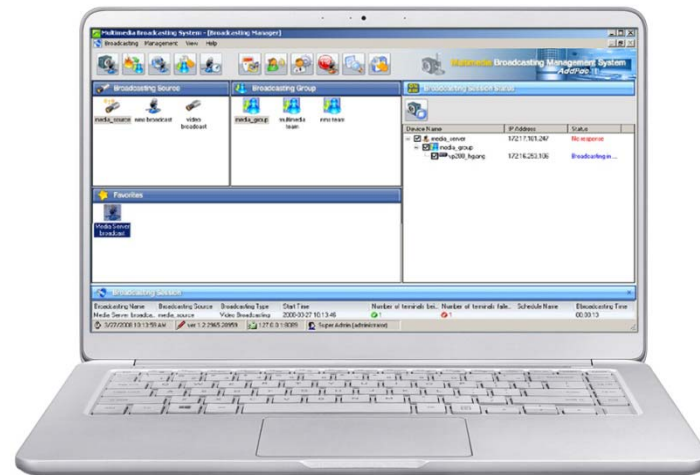
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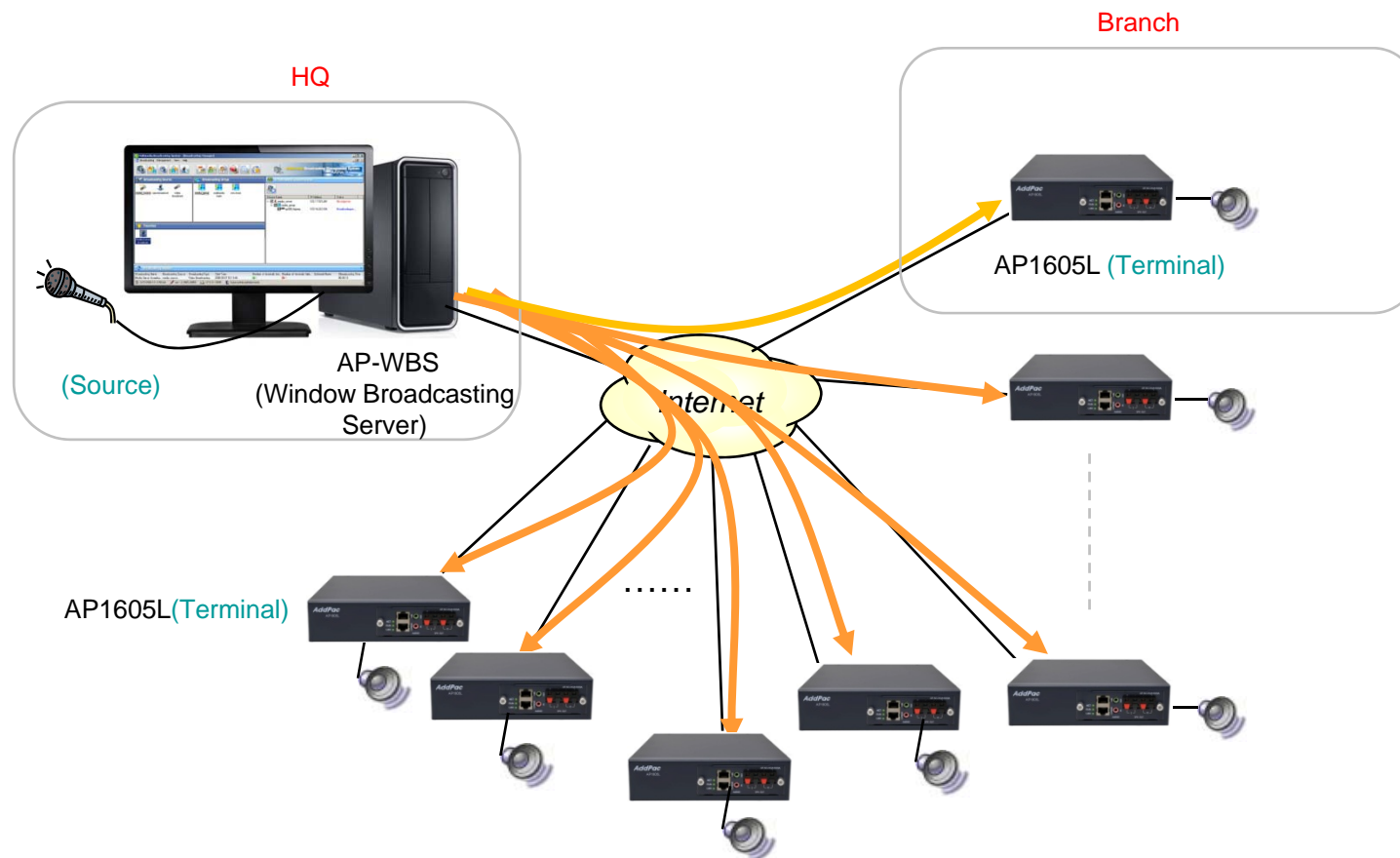
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Contents

- Network Diagram
- Main Features
- Software Requirement
- Hardware Requirement
- GUI examples



Network Configuration



Main Feature

- Window based IP Broadcasting Server with Management Software
- Unicasting/Multicasting Service Support
- RTP (Real-time Transmission Protocol) Support
- Various Voice/Audio Codec Support (G.711, SPEEX, etc)
- User Register and Access Restriction Management
- Broadcasting Device Management
- Broadcasting Source, Group, Favorite List Management
- Reserved Broadcasting and Time Signal Broadcasting
- TTS Broadcasting
- IP Broadcasting Terminal Status Check, etc
- Search Event Log

Software Requirement

1. Database : MySQL Server 5.0
2. e-MBMS Server
 - Java JRE 1.5
 - e-MBMS Server
3. e-MBMS Client
 - e-MBMS Client

Hardware Requirement

1. e-MBMS Server H/W Requirement

- CPU: Intel Pentium4 1GHz (minimum)
- MEMORY: 512Mbyte (minimum)
- HDD: 40GB
- OS: Windows XP, Windows 2000, Windows 7..

2. e-MBMS Client H/W Requirement

- CPU: Intel Pentium Series
- MEMORY: 256Mbyte (minimum)
- OS: Windows XP, Windows 2000, Windows 7..

WBS GUI Initial Screen

Broadcasting Source

media_source nms broadcast video broadcast

Broadcasting Group

media_group multimedia team nms team

Broadcasting Session Status

Device Name	IP Address	Status
<input checked="" type="checkbox"/> media_server	172.17.101.247	No response
<input checked="" type="checkbox"/> media_group		
<input checked="" type="checkbox"/> vp200_hqiang	172.16.253.106	Broadcasting in ...

Favorites

Media Server broadcast

Broadcasting Session

Broadcasting Name	Broadcasting Source	Broadcasting T.type	Start Time	Number of terminals bei...	Number of terminals fail...	Schedule Name	Bbroadcasting Time
Media Server broadca...	media_source	Video Broadcasting	2008-03-27 10:13:46	1	1		00:00:13

3/27/2008 10:13:59 AM ver 1.2.2965.20959 127.0.0.1:8089 Super Admin (administrator)

Broadcasting Device Management

Device Properties

Device Name: media_server
 Description:
 IP Address: 172.17.101.247
 Device Model: AP3120
 Remote control of Broadcasting:
 Module Information:

Slot	Module
0 (Slot)	<N/A>
1 (Slot)	AP-AUDIO2

Ok Cancel

Broadcasting Session

Broadcasting Name	Broadcasting Source	Broadcasting Type	Start Time	Number of terminals bei...	Number of terminals faile...	Schedule Name	Bbroadcasting Time
Media Server broadca...	media_source	Video Broadcasting	2008-03-27 10:13:46	1	1		00:03:09

3/27/2008 10:16:57 AM ver 1.2.2965.20959 127.0.0.1:8089 Super Admin (administrator)

Broadcasting Group Management

The screenshot displays the 'Multimedia Broadcasting System - [Broadcasting Manager]' window. The 'Group Properties' dialog box is open, showing the following details:

- Group Name: nms team
- Description: (empty)
- Buttons: Add Device, Add Group
- Setup for Amplifier: Amplifier 1, Amplifier 2, Amplifier 3 (all unchecked)
- Broadcasting Device List (Left Table):

Device Name	IP Address	Module	Port Number
tandberg	172.16.19.100	AP-AV1000	(1/1) (1/0)
media_server	172.17.101.247	AP-AUDIO2	(1/0) (1/0)
media_server	172.17.101.247	AP-AUDIO2	(1/1) (1/1)
172.16.41.11	172.16.41.11	AP-VP300	(0/1) (0/0)
NMS_VP300	172.16.16.30	AP-VP300	(0/1) (0/0)
vp200_meeting_ro...	172.17.201.108	AP-VP300	(0/1) (0/0)
vp200_hgiang	172.16.253.106	AP-VP300	(0/1) (0/0)
phone_jschoi	172.16.19.101	AP-VP300	(0/1) (0/0)
VP200_phkwon	172.16.40.30	AP-VP300	(0/1) (0/0)

- Broadcasting device included in the group (Right Table):

Device Name	IP Address	Port Number
172.16.41.11	172.16.41.11	(0/1) (0/0)

At the bottom of the dialog box are 'Ok' and 'Cancel' buttons. The status bar at the bottom of the application window shows the date and time (3/27/2008 10:18:54 AM), version (ver 1.2.2965.20959), IP address (127.0.0.1:8089), and user (Super Admin [administrator]).

Reserved Broadcasting Management

Multimedia Broadcasting System - [Reservation of Broadcasting Management]

Broadcasting Management View Help

Multimedia Broadcasting Management System
AddPac

Schedule Broadcasting Management

Schedule Name	Broadcasting ...	Start Time
Morning Broadcasting	General	10:21:27

Schedule Properties

Selecting Broadcasting: Media Server broadcast

Schedule Name:

Description:

Scheduled Broadcasting: General Time Information

Scheduling Method: Day Date

Select Day: Mon Tue Wed Thu Fri Sat Sun

Broadcasting Time

Start Time: 3/27/2008 10:22:16

End Time: 3/27/2008 10:22:16

Audio File: Select

Ok Cancel

Broadcasting Name	Broadcasting Source	Broadcasting Typ
Media Server broadca...	media_source	Video Broadcastir

3/27/2008 10:22:10 AM ver 1.2.2965.20959 127.0.0.1:8089 Super Admin (administrator)

TTS Broadcasting

The screenshot displays the 'Multimedia Broadcasting System - [Broadcasting Manager]' interface. The main window is titled 'TTS Broadcasting' and features a 'Favorites Name' dropdown menu set to 'Media Server broadcast'. Below this, there are two tabs: 'TTS' and 'TTS List'. The 'TTS' tab is active, showing a text area with the following content:

WASHINGTON (AFP) - The Pentagon on Wednesday said an eruption of violence in southern Iraq, where US-backed government forces were battling Shiite militias, was a "by-product of the success of the surge."

Pentagon press secretary Geoff Morrell said it showed that the Iraqi government and security forces were now confident enough to take the initiative against Shiite extremists in the southern port of Basra.

At the bottom of the 'TTS' tab, there is an 'Audio File Name' input field and a 'Start' button. A 'Close' button is located at the bottom right of the 'TTS' tab.

The 'TTS List' tab is also visible, showing a table with the following data:

IP Address	Status
nms team	172.16.41.11

The interface also includes a 'Broadcasting Source' section with icons for 'media_source', 'nms broadcast', and 'video broadcast'. A 'Favorites' section shows 'Media Server broadcast'. The 'Broadcasting Session' section at the bottom has columns for 'Broadcasting Name', 'Broadcasting Source', and 'Bro...'. The system tray at the bottom shows the date and time as '3/27/2008 10:18:54 AM', the version as 'ver 1.2.2965.20959', the IP address as '127.0.0.1:8089', and the user as 'Super Admin (administrator)'.



Thank you!

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