AP-GTR2000
임베디드 GPS NTP 시각동기장치

Smart Web Manager

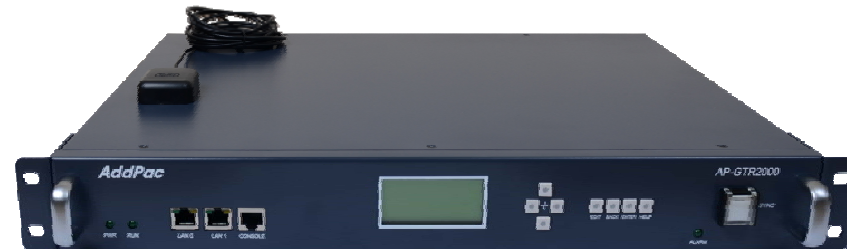**AddPac Technology**

Sales and Marketing

목 차

제품 주요 특징

- GPS 기반 하드웨어 모듈을 장착한 임베디드 NTP (Network Time Protocol)서버
- 고성능 GPS 시각 동기 장치 솔루션
- IP 기반 GPS 시각 수신장치 (Location Free, etc)
- GPS 시각정보 전송을 위한 듀얼 RS232 포트
- GPS 시간정보 표시를 위한 LCD 지원
- 외부 GPS 안테나 지원
- 19인치 랙마운터블 샤시
- 듀얼 고속 이더넷 인터페이스 (Two(2) 10/100Mbps Fast Ethernet) 지원
- GPS 신호 수신을 위한 고성능 안테나 지원 (10m 기본제공, 20m 옵션)
- 디바이스 상태표시를 위한 블루 램프(Blue LAMP) 지원
- 디바이스 설정및 관리를 위한 스마트 웹 관리 소트프웨어 탑재
- 펌웨어 업그레이드 가능한 시스템 구조
- SMPS 내장형 전원 공급장치 탑재

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하드웨어 사양

- RISC 마이크로프로세서 컴퓨팅 파워
- 고성능 GPS 하드웨어 모듈 아케텍쳐
- 한 개의 GPS 하드웨어 모듈 슬롯
- 전면부 LCD 표시 기능 (시각 표시 등)
- 블루 램프 (GPS 시각 동기 상태 표시)
- 듀얼(2) 10/100Mbps 고속 이더넷 인터페이스
- 듀얼(2) DB-9 RS232C 인터페이스
- 내장형 SMPS 전원 공급장치
- 19인치 랙 마운터블 샤시 구조
- GPS 안테나 (10m 케이블 기본제공, 20m 케이블 : Option)
- 하드웨어 모듈 : AP-GPS-RS232
  - Two(2) DB-9 RS232C 인터페이스 포트
  - 외장형 GPS 안테나 인터페이스 포트

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하드웨어 사양

전면부

설정키들

듀얼 10/100Mbps
고속 이더넷 LAN 포트

상태 LCD

블루 LAMP
& 스위치

RS232C 콘솔 포트
(RJ45)

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하드웨어 사양

후면부

GPS 안테나

GPS
하드웨어 모듈

전원
공급장치

DB-9 RS232
채널 #1

DB-9 RS232
채널#2

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하드웨어 사양

GPS Antenna

AP-GPSR2

ANT

RS232 0

RS232 1

DB-9 RS232
CH#1

DB-9 RS232
CH#2

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하드웨어 사양
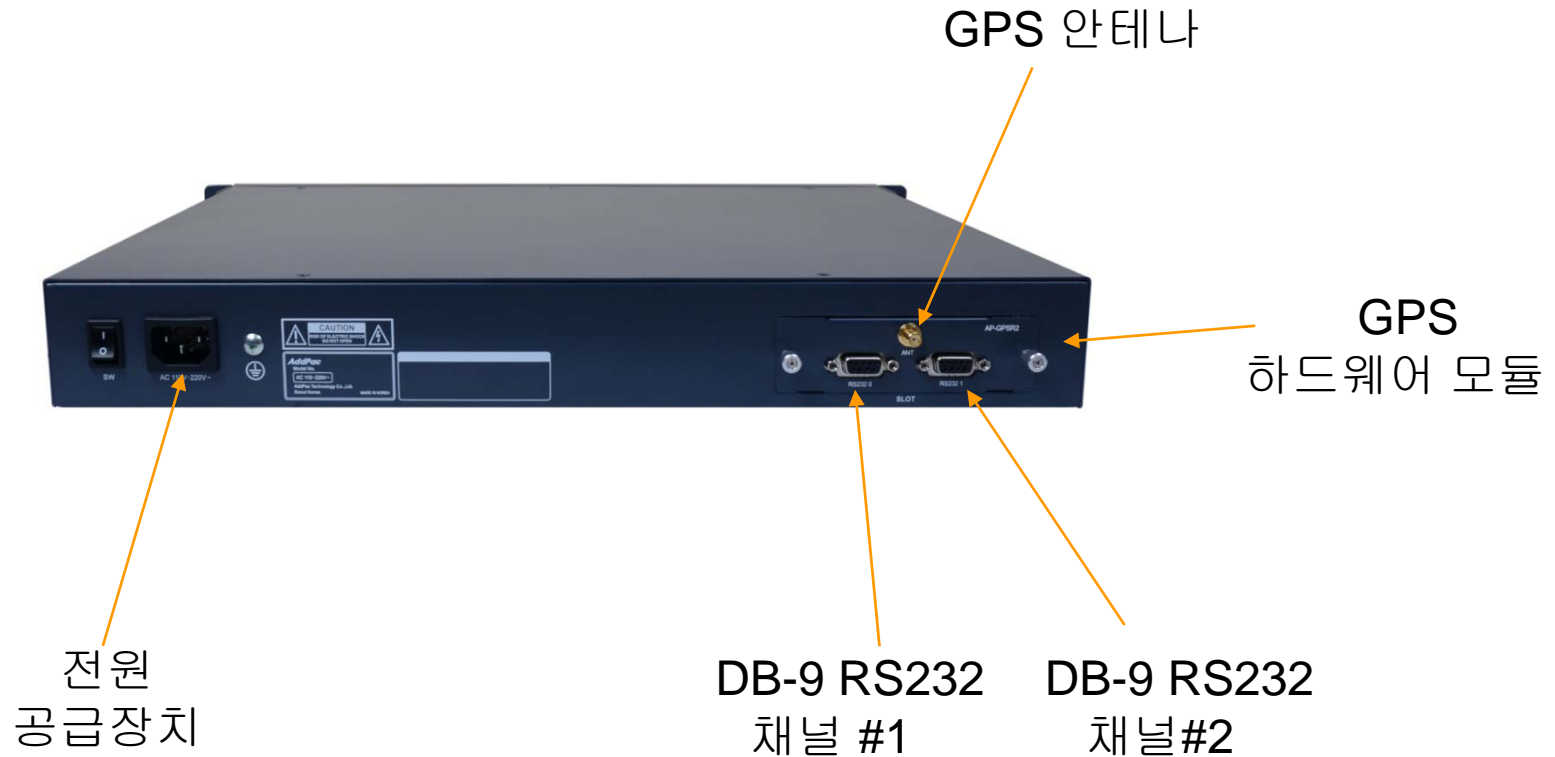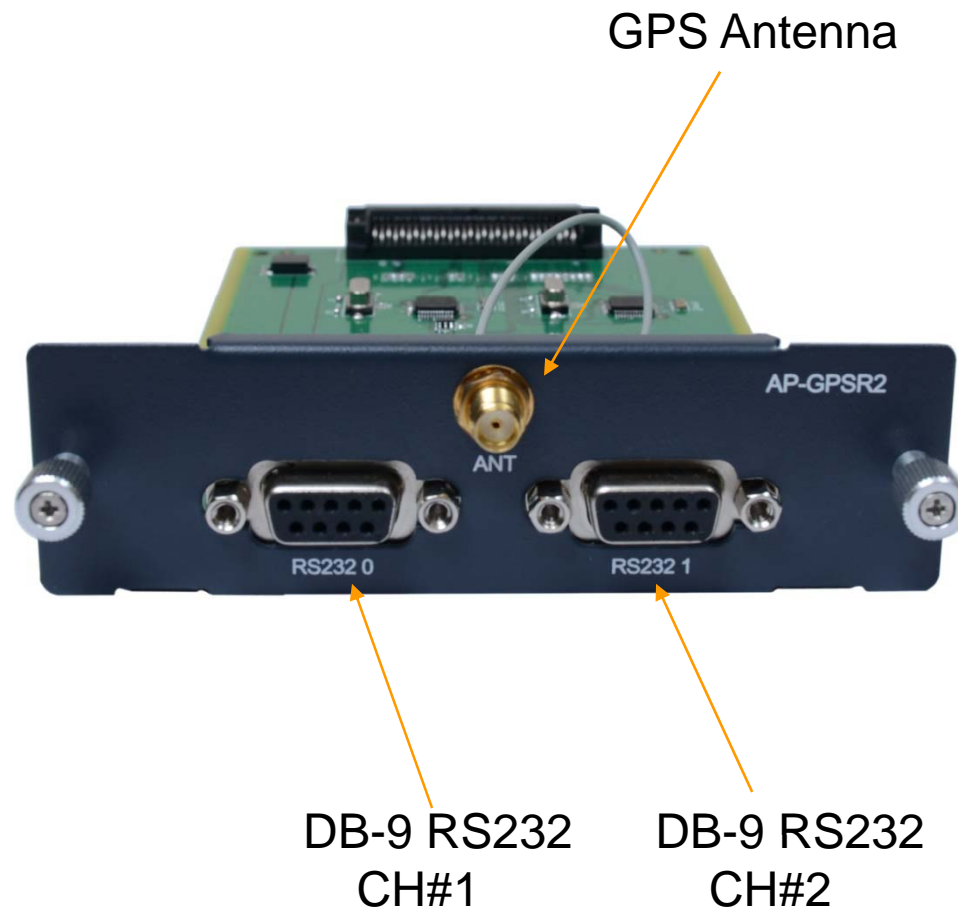
GPS Antenna

Smart Web Manager

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Main View

Smart Web Manager
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System
- Language
- WAN Setup
- System Time
- File Browser

Advanced
- SNMP

Miscellaneous
- System Log

System Information

Model	AP-GTR1000_G2
SW Version	8.51.017
Current Time	Tue Oct 10 14:06:38 2017
Network Information	Static 172.16.7.122
WAN LINK Status	100Mbps HALF Duplex Link UP

Show System Information
-Model
-SW version
-Current Time
-Network Information
-WAN Link status

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System View

Language

System View

WAN Setup – WAN Setup(1/2)

System
- Language
- **WAN Setup**
- System Time
- File Browser

Advanced
- SNMP

Miscellaneous
- System Log

▌ WAN & Tunneling Setup

WAN Setup

Hostname ❓ GTR

○ **Static IP** ❓
- IP Address   172.16.7.122   A.B.C.D
- Network Mask   255.255.0.0   A.B.C.D
- Default Router   [ ]   A.B.C.D
- DNS Server   [ ]   Primary DNS Server
-   [ ]   Secondary DNS Server

○ **PPPoE(ADSL)** ❓
- User name   [ ]
- Password   [ ]
- Authentication
  - ● (No Authentication)
  - ○ PAP (PPP Authentication Protocol)
  - ○ CHAP(Challenge Handshake Authentication Protocol)

○ **DHCP** ❓

☐ **VLAN**   ID 0

WAN Link Control ❓
- ● Auto
- ○ Manual
  - Speed   ○ 100   ○ 10
  - Duplex   ○ full   ○ half

MAC(Hardware) Address ❓   [ ]-[ ]-[ ]-[ ]-[ ]-[ ]

QoS Control ❓
- ☐ Enable QoS (optional)
- Bandwidth :   [ ]   Kbps (default auto, 48-4096)
- PPS :   [ ]   pps (default auto, 50-2000)

✓ Apply

> This command sets up WAN port. The static IP address is to be assigned from the service provider and you can enter the assigned IP address.
> For DHCP and PPPoE, IP address of this device can be changed.
> MAC Address change can be used only when necessary.
> It is recommended to use the address created by the user not the address of the device

System View

WAN Setup – Tunneling Setup (2/2)

System

- Language
- **WAN Setup**
- System Time
- File Browser

Advanced

- SNMP

Miscellaneous

- System Log

Tunneling Setup

Mode
- ● None(Disable Tunneling, default)
- ○ PPTP(Point-to-Point Tunneling Protocol)

User name [ ]
Password [ ]

Authentication
- ○ (No Authentication)
- ○ PAP(PPP Authentication Protocol)
- ○ CHAP(Challenge Handshake Authentication Protocol)

Phone Number
- ○ None (Default)
- ○ Hostname (Use hostname as phone number)
- ○ User Define [ ]

Source   FastEthernet0/0 ▾

Destination   [ ] A.B.C.D (Tunnel End Point Address)

Service
- ○ Voice and Data Use Tunnel Interface (default)
- ○ Voice Use Tunnel Interface, Data Use Ethernet Interface
- ○ Data Use Tunnel Interface, Voice Use Ethernet Interface

✔ Apply

Tunneling Setup
-Mode
-Source
-Destination
-Service

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System View

System Time

System Time
-Show current time
-Configure time zone
-Configure system time

System View

File Browser

File Browser
-Directory list
-Change directory
-Upload file
-Download file

Advanced View
SNMP
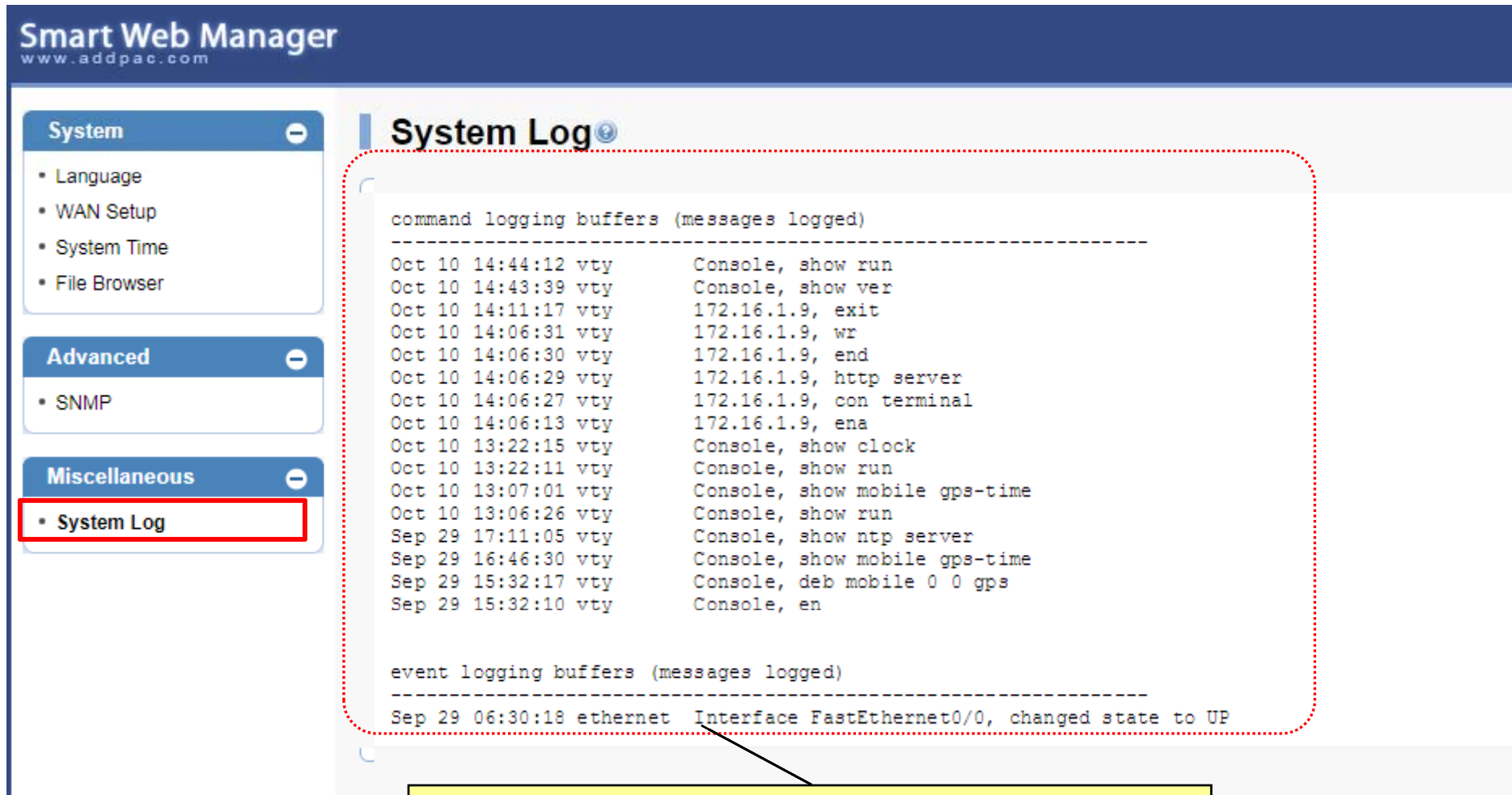
SNMP
- Enable / Disable
- Service Port
- Community
- Trap server

Miscellaneous View

System Log

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System
- Language
- WAN Setup
- System Time
- File Browser

Advanced
- SNMP

Miscellaneous
- **System Log**

System Log

```
command logging buffers (messages logged)
-------------------------------------------------------------------
Oct 10 14:44:12 vty        Console, show run
Oct 10 14:43:39 vty        Console, show ver
Oct 10 14:11:17 vty        172.16.1.9, exit
Oct 10 14:06:31 vty        172.16.1.9, wr
Oct 10 14:06:30 vty        172.16.1.9, end
Oct 10 14:06:29 vty        172.16.1.9, http server
Oct 10 14:06:27 vty        172.16.1.9, con terminal
Oct 10 14:06:13 vty        172.16.1.9, ena
Oct 10 13:22:15 vty        Console, show clock
Oct 10 13:22:11 vty        Console, show run
Oct 10 13:07:01 vty        Console, show mobile gps-time
Oct 10 13:06:26 vty        Console, show run
Sep 29 17:11:05 vty        Console, show ntp server
Sep 29 16:46:30 vty        Console, show mobile gps-time
Sep 29 15:32:17 vty        Console, deb mobile 0 0 gps
Sep 29 15:32:10 vty        Console, en


event logging buffers (messages logged)
-------------------------------------------------------------------
Sep 29 06:30:18 ethernet  Interface FastEthernet0/0, changed state to UP
```
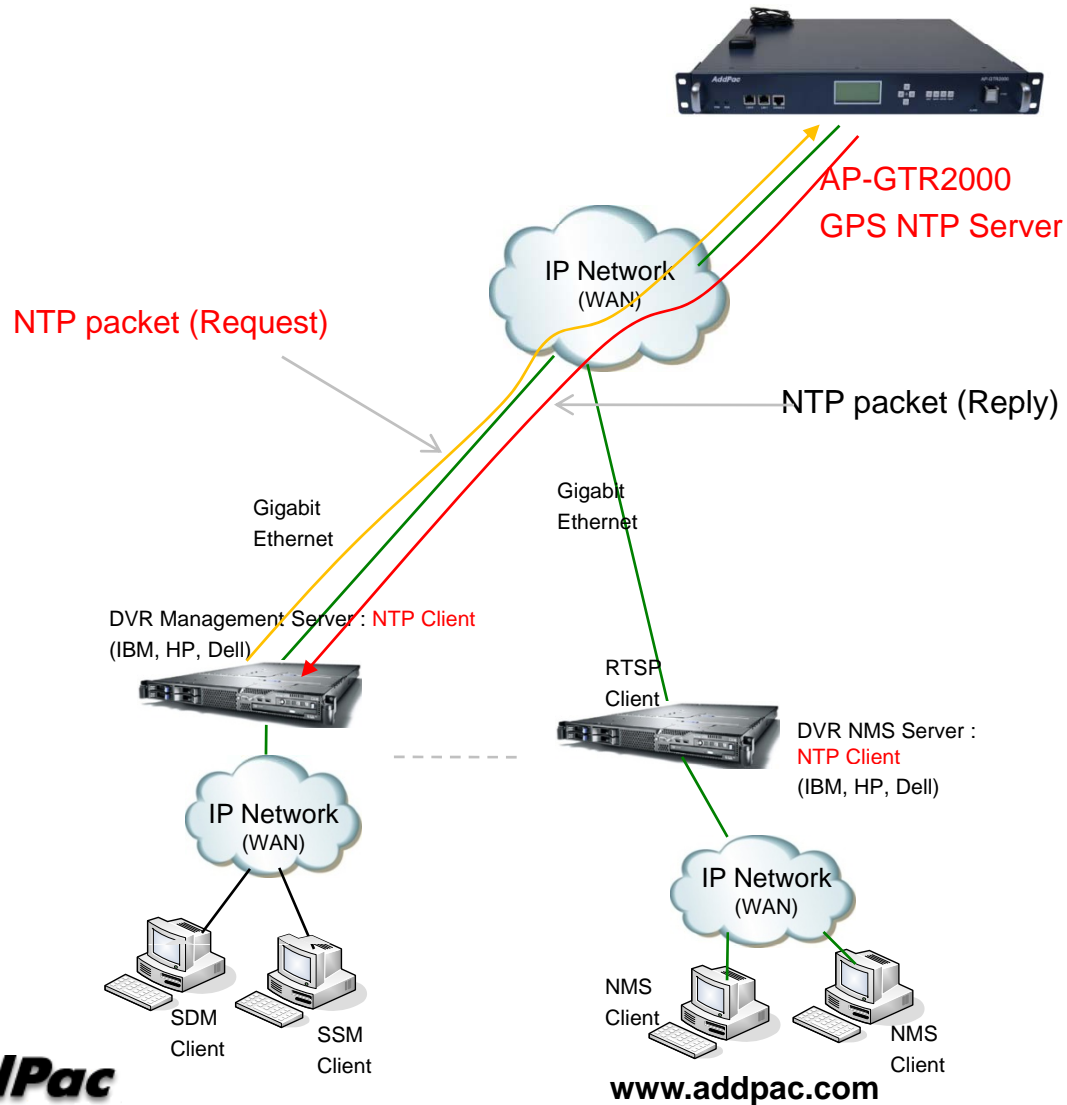
Retrieve the system log – command and event log

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SNTP (Simple Network Time Protocol)

AP-GTR2000
GPS NTP Server

IP Network
(WAN)

NTP packet (Request)

NTP packet (Reply)

Gigabit
Ethernet

Gigabit
Ethernet

DVR Management Server : NTP Client
(IBM, HP, Dell)

RTSP
Client

DVR NMS Server :
NTP Client
(IBM, HP, Dell)

IP Network
(WAN)

IP Network
(WAN)

SDM
Client

SSM
Client

NMS
Client

NMS
Client

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Thank you!

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