AP-GTR1000

GPS based Embedded NTP Server



NTP Server Duplication

AddPac Technology

Sales and Marketing

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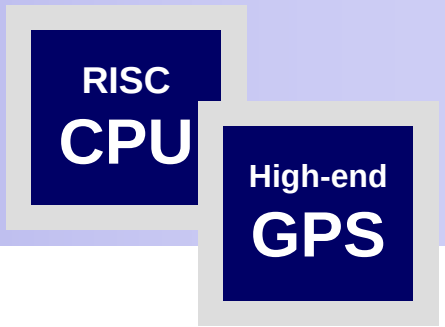
Product Overview

AP-GTR1000 GPS NTP Server

- High Performance GPS Time Receiver Terminal Solution
- IP based GPS Time Receiver (Location Free, etc)
- NTP (Network Time Protocol) Sever Solution
- Dual RS232 Port for GPS Time Information Transmission
- LCD Display for GPS Time Information
- External Antenna Interface Support
- Various Antenna Support for GPS Signal
- Blue LAMP for Device Status
- Smart Web Manager for System Configuration & Management
- Window, Linux Simple Socket API Program Support
- Firmware Upgradeable Architecture
- Broadcasting Solution with Outstanding Network Service Capability

Hardware Specification

AP-GTR1000 GPS NTP Server



- RISC Microprocessor Computing Power
- High-end GPS Module Hardware Architecture
- One(1) Module Slot for GPS Module
- LCD Display at Front Side
- Blue LAMP
- One(1) 10/100Mbps Fast Ethernet Interface
- Dual(2) DB-9 RS232C Interface
- Internal Power Supply
- Rack Mount Bracket (Option)
- GPS Antenna (Option)
- Option Module : AP-GPS-RS232
  - Two(2) DB-9 RS232C Interface Port
  - GPS Antenna Interface Port

Hardware Specification

AP-GTR1000 GPS NTP Server

RISC CPU

High-end GPS

Front Side



One(1) 10/100Mbps LAN

RS232C Console

Status LCD

On-Air Blue LAMP & Switch

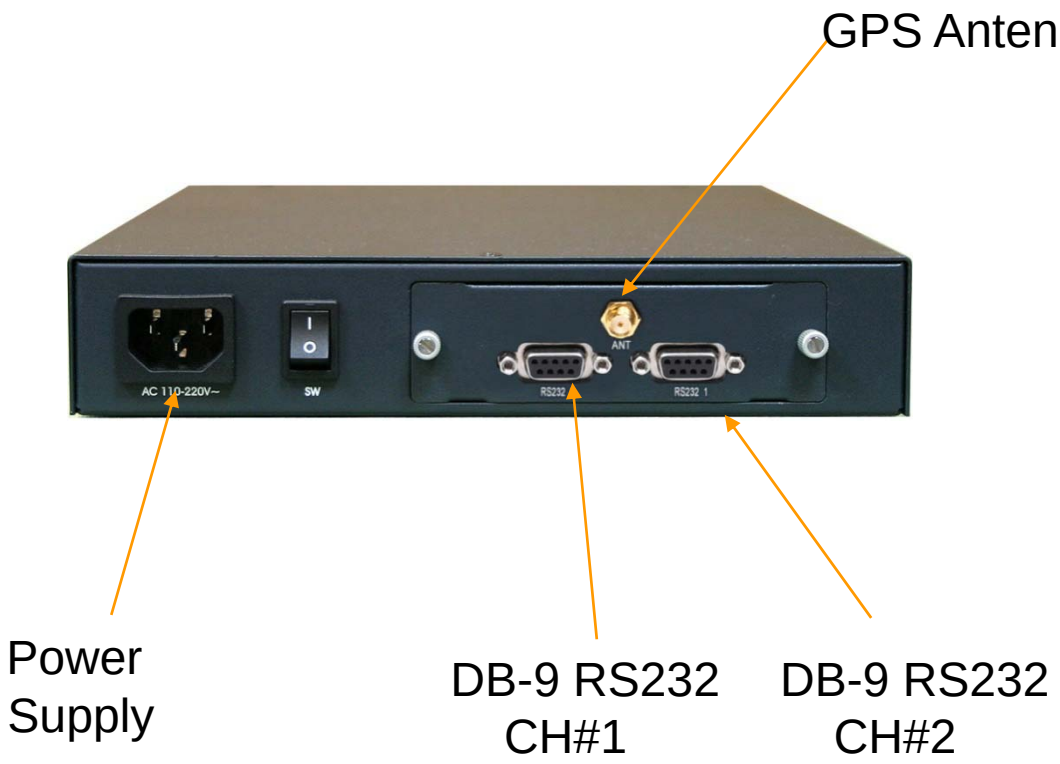
Hardware Specification

AP-GTR1000 GPS NTP Server

RISC CPU

High-end GPS

Back Side



Hardware Specification

AP-GTR1000 GPS NTP Server

RISC CPU

High-end GPS

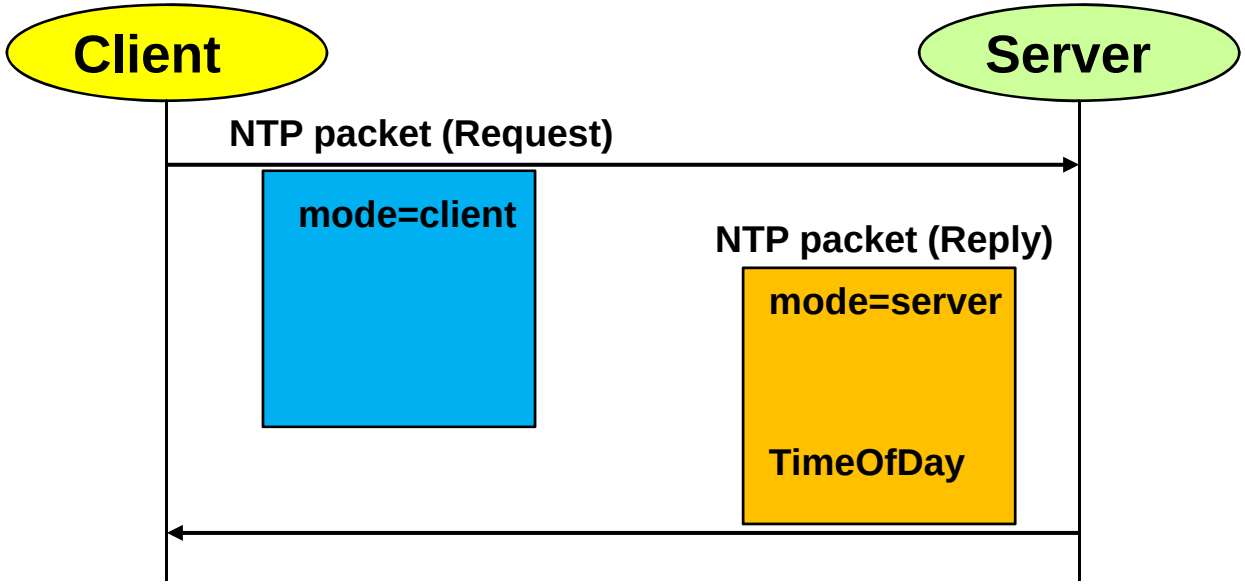
GPS Antenna



SNTP (Simple Network Time Protocol)

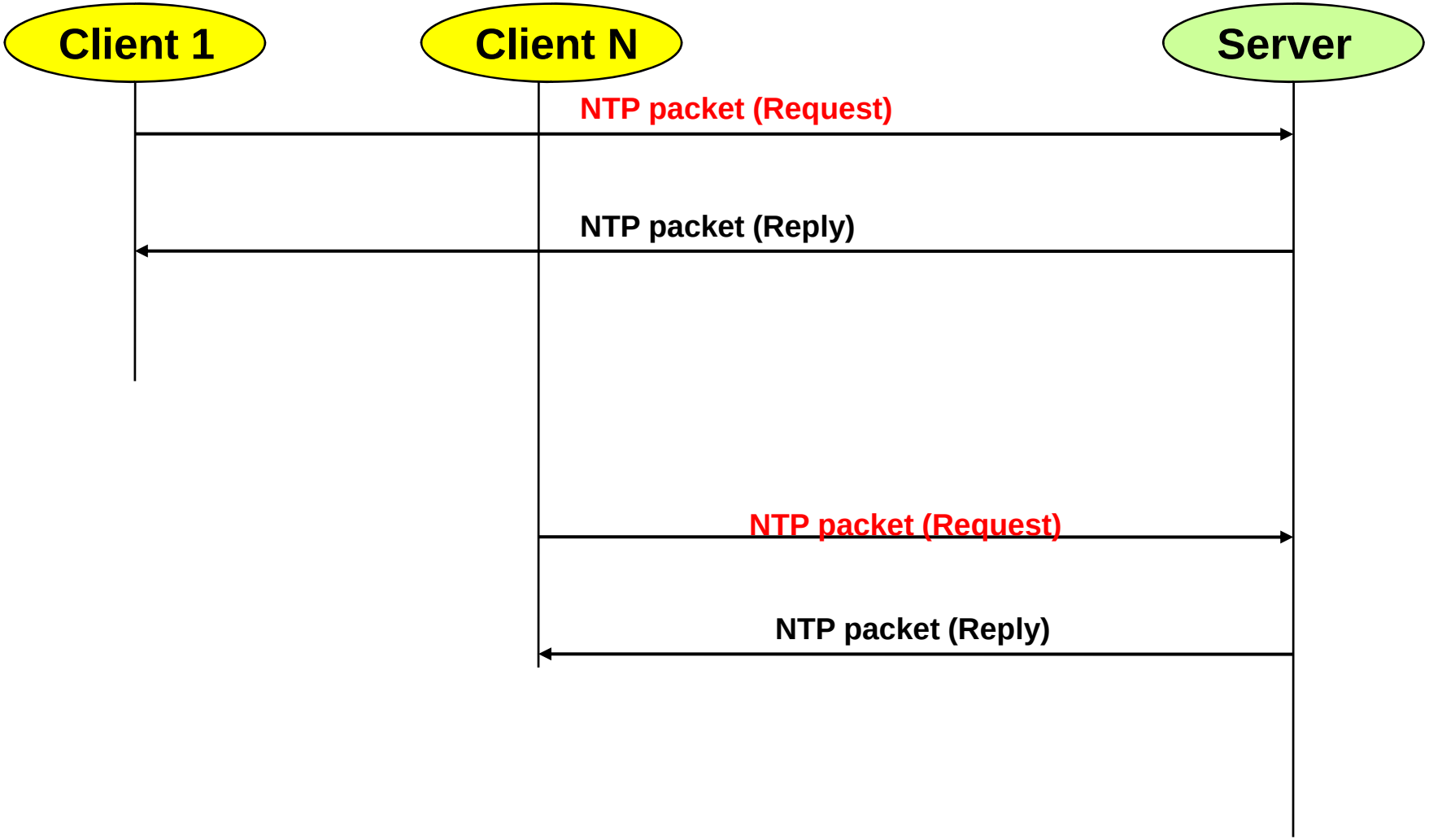
AP-GTR1000 GPS NTP Server

- Transport : UDP (port number 123)
- Protocol Version : 4
- Client/Server Mode



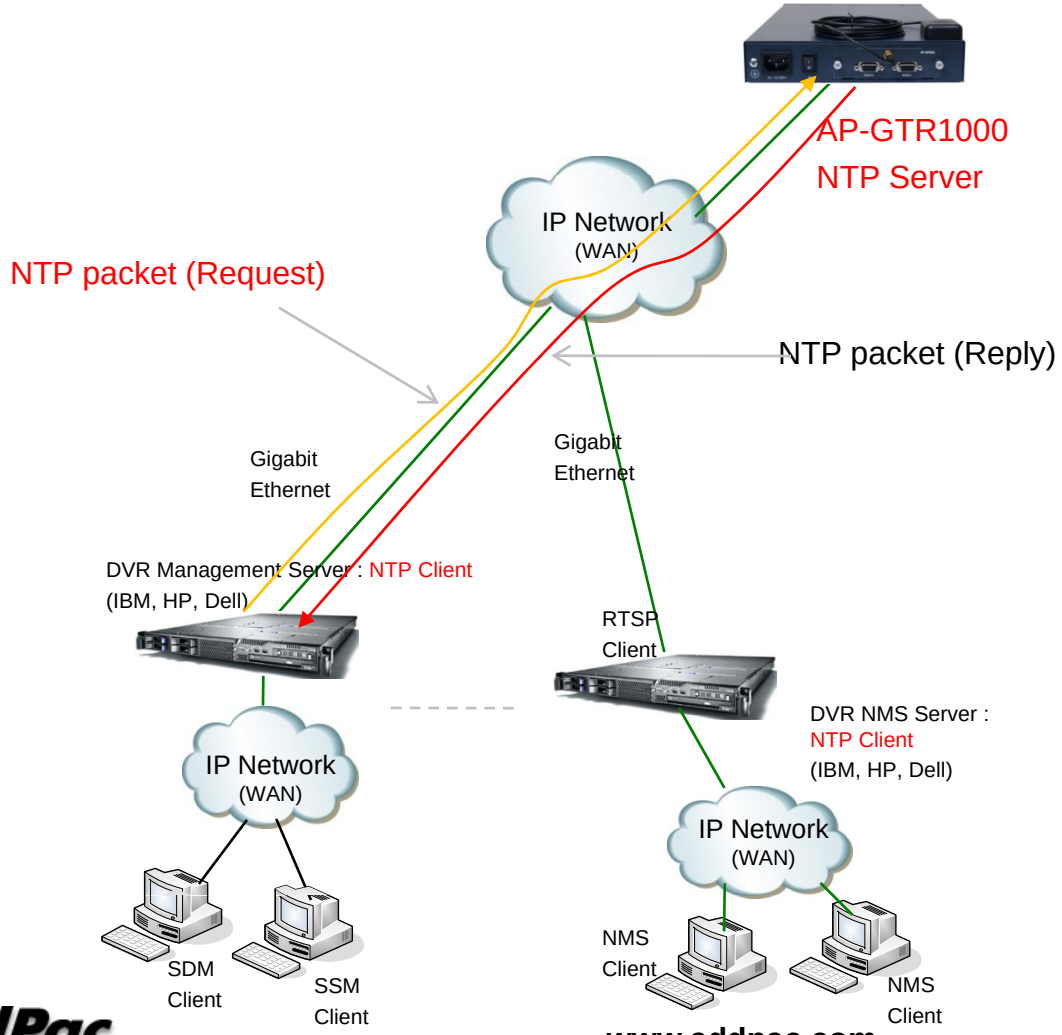
SNTP (Simple Network Time Protocol)

AP-GTR1000 GPS NTP Server



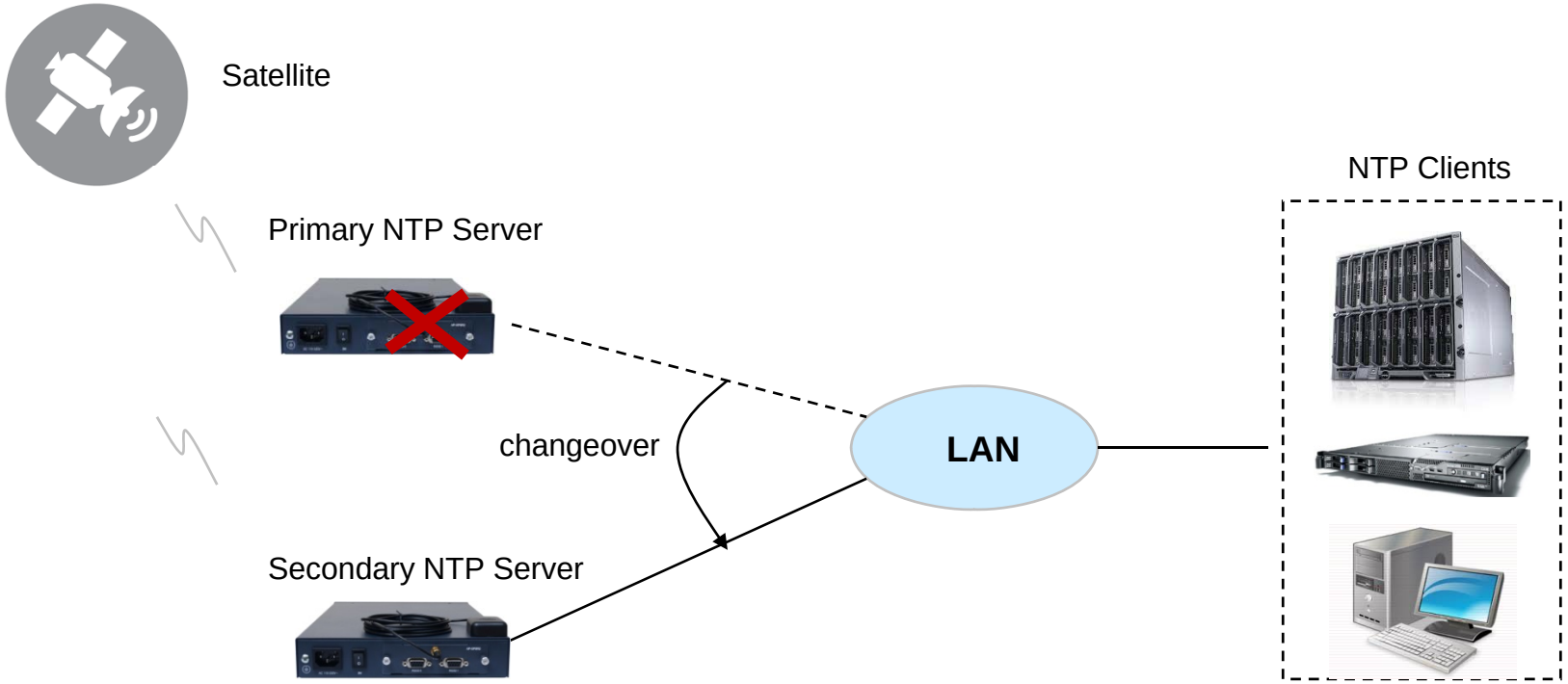
SNTP (Simple Network Time Protocol)

AP-GTR1000 GPS NTP Server



NTP Server Failure

AP-GTR1000 GPS NTP Server



NTP Client Configuration for Redundancy

AP-GTR1000 GPS NTP Server

- Linux Example

  $ vi /etc/ntpd.conf

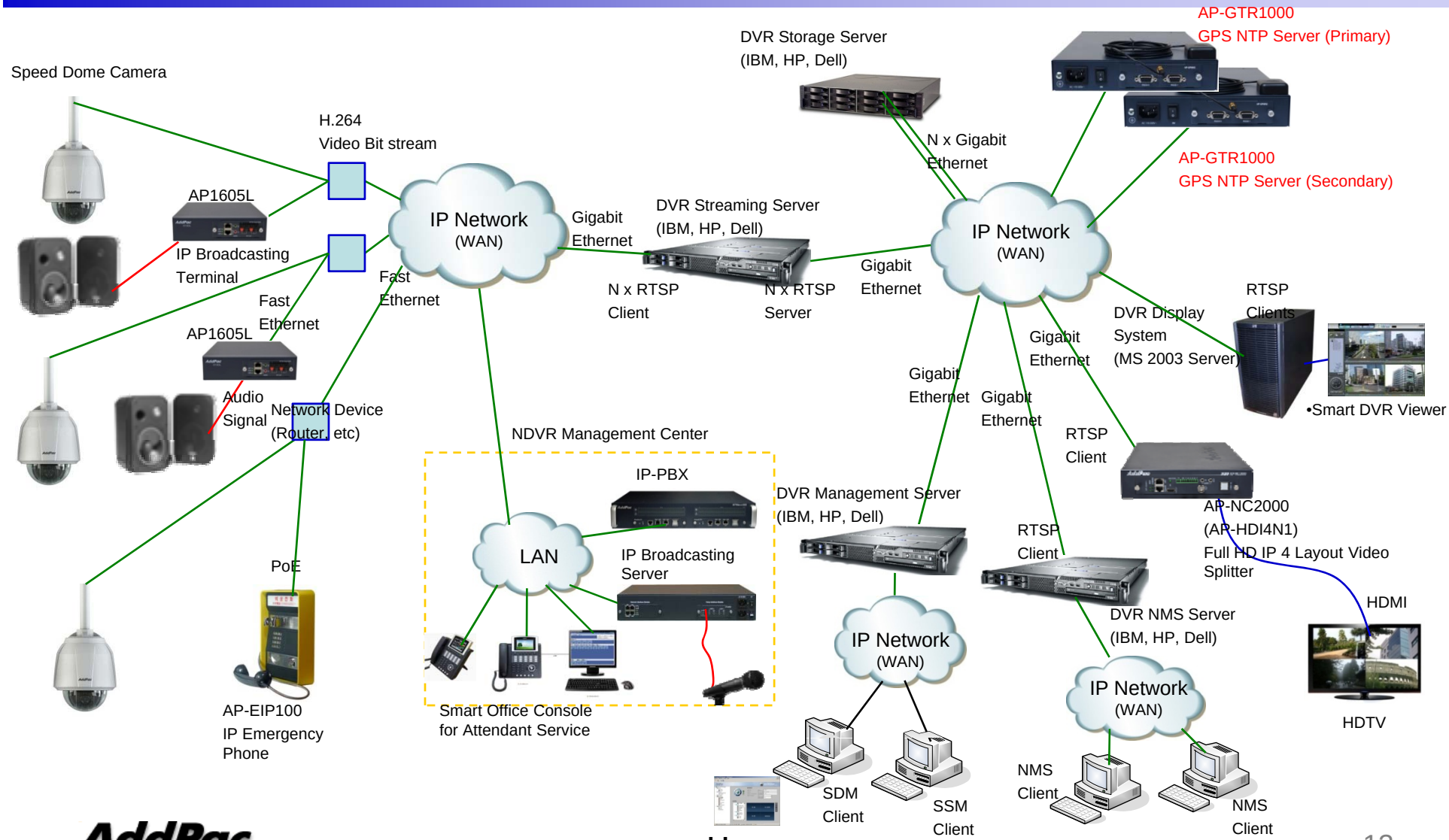
  server 172.16.1.100 ← Primary NTP Server
  server 172.16.1.101 ← Secondary NTP Server

- Windows Example

C:\>w32tm /config /syncfromflags:manual
/manualpeerlist:“172.16.1.100,0×1 172.16.1.101,0×1" /update
/reliable:yes

Network Diagram

AP-GTR1000 GPS NTP Server



Thank you!

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