

IPv6/IPv4 APOS 2.0 The Way for Next Generation Network

APOS 2.0 Highlights

애드팩테크놀러지의 IPv6/IPv4 APOS 2.0은 차세대 네트워크를 준비하는 확실한 솔루션입니다. 차세대 네트워크는 휴대폰과 가정 내 가전기기까지 네트워킹을 하게 됩니다. 이렇게 진화된 네트워크로 가기 위해 필수적이면서도 기본인 사항은 IPv6의 지원입니다.

애드팩테크놀러지의 네트워크 장비의 임베디드 운영체제인 APOS 2.0은 IPv6와 IPv4를 듀얼 스택모드에서 컨커런트하게 지원합니다. 따라서 애드팩테크놀러지의 WAN 라우터 시리즈와 ATM 라우터 시리즈, 비디오 서비스 라우터 등은 네트워크 환경 변화에 자연스럽게 대응할 수 있습니다. APOS 2.0은 IPv6와 IPv4를 듀얼 스택모드에서 지원해 IPv6 네트워크와 IPv4 네트워크 간의 뛰어난 IPv6 Translation 서비스를 제공합니다. APOS 2.0의 IPv6 Translation 기능은 NAT-PT (Network Address Translation/ Protocol Translation)와 6 to4 등의 표준을 지원합니다. 이에 따라 APOS 2.0이 탑재된 애드팩 네트워크 장비를 적용하면, 별도 WAN 접속용 라우터나 IP Translator를 도입하지 않고도 WAN 접속에서 IPv6 트랜스레이션까지 한번에 해결할 수 있습니다.

IPv6는 기존 IPv4에 비해 QoS(Quality of Service)와 보안, 모바일 서비스 측면에서 훨씬 탄탄한 기능을 제공합니다. 요즘 빠른 속도로 확산되고 있는 인터넷 스트리밍의 이슈인 QoS 서비스 측면에서 IPv6는 그동안 제한적인 QoS를 지원했던 IPv4에 비해 Flow Label, Traffic Class 등을 수용함으로써 훨씬 세련된 서비스를 지원합니다. 애드팩의 APOS는 IPv6를 수용함으로써 한 차원 더 높은 QoS 서비스를 지원할 수 있게 됐습니다. APOS 2.0을 적용하면 IPv6 기반의 Mobile IP Service나 Advanced QoS 서비스, IPSec 기반의 보안 서비스를 누릴 수 있습니다.

APOS2.0 Internetworking SW for AP Networking Equipment

AddPac Operating System (APOS) 2.0 is best Network Equipments software to provide scalability, reliability, stability, and QoS for internetworking solutions based on IPv6/IPv4. APOS also provides optimized performance and industry standard network functionality with easy-to-use, easy-to-installation, and maintenance.

IPv4 Specification

- Static, RIP v1/2, OSPF v2, BGP4, PIM-SM* and IEEE 802.1Q VLAN Routing Protocols
- TFTP, FTP Server/Client, Telnet Server, DNS
- VRRP for Network Load balancing and Fault Tolerance Service
- IPSec VPN, SSH for Secure Communication
- Traffic Queuing, and SNMP MIB v2 for Network Management Features
- Standard & Extended Access List for Security Functions
- PPP, PPPoE for WAN Interworking
- Essential Scalability Features such as DHCP Server & Relay, DHCP Client, NAT/ PAT, IEEE Transparent Bridging, IP Accounting, and Debugging/Diagnostics, etc.

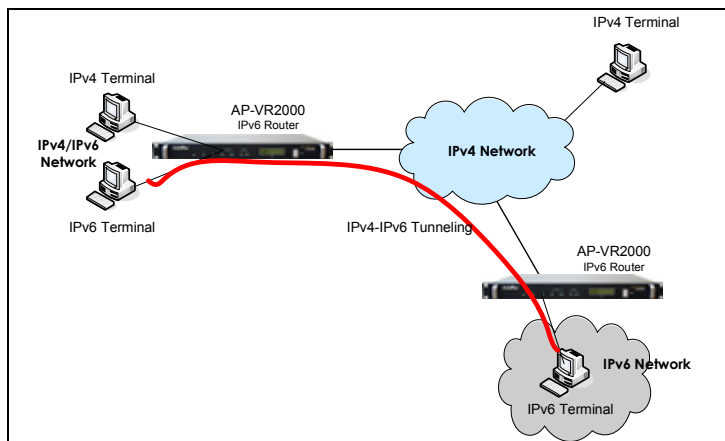
IPv6 Specification

- IPv6, TCPv6, UDPv6, ICMPv6, NDP, IPv6 Stateless Address
- Static, RIPng, OSPF v3 and IEEE 802.1Q VLAN Routing Protocols
- TFTP, FTP Server/Client, Telnet Server, and DNS For IPv6
- VRRP for Network Load balancing and Fault Tolerance Service
- IPv6 VPN, IPv6 Secure Communication
- Traffic Queuing, and SNMP for Network Management Features
- Standard & Extended Access List for Security Functions
- PPP for WAN Interworking
- DHCP for IPv6

IPv6-IPv4 Interworking Specification

- NAT-PT(Network Address Translation-Protocol Translation)
- 6 to4 Tunnel

IPv6/IPv4 Network Diagram



IPv6 Protocols & Services

Basic Protocols

- IPv6, TCPv6, UDPv6, ICMPv6, NDP, IPv6 Stateless Address

IP Routing Protocols

- Static and IEEE 802.1Q VLAN Routing
- RIPng, OSPF v3

WAN Protocols

- Point-to-Point Protocol for IPv6

Network Managements

- Traffic Queuing and Frame-Relay Flow Control
- Standard SNMP Agent (MIB v2) Support
- Remote Management using Console, Rlogin, Telnet
- DNS IPv6, VRRP for IPv6

VPN Service

- IPv6 VPN

Security Functions

- Standard & Extended IP Access List
- Access Control and Data Protections
- Enable/Disable for Specific Protocols
- Multi-Level User Account Management
- Auto-disconnect for Telnet/Console Sessions

Operation & Managements

- System Performance Analysis for Process, CPU, Connection I/F
- Configuration Backup & Restore for APOS Managements
- Debugging, System Auditing, and Diagnostics Support
- System Booting and Auto-rebooting with Watchdog Feature
- System Managements with Data Logging
- IP Traffic Statistics with Accounting

IPv4 Protocols & Services

IP Routing Protocols

- Static and IEEE 802.1Q VLAN Routing
- RIP v1/v2, OSPF v2, BGP v4, PIM-SM*

WAN Protocols

- Point-to-Point over Ethernet Protocol (PPPoE) for ADSL
- IPoA, PPPoA, HDLC, etc.

Voice over IP Service

- ITU-T H.323, SIP, and MGCP VoIP Protocol
- ITU-T H.323 Gateway, Gatekeeper Support
- Enhanced QoS Management Features for Voice Traffics
- G.723.1, G.729.A, G.711 Voice Compressions
- Voice Processing Features Supports
 - VAD, DTMF, CNG, G.168 and T.38 G3 FAX Relay
- ITU-T H.323 Gateway, Gatekeeper Support
- Enhanced QoS Management Features for Voice Traffics

Network Managements

- Traffic Queuing and Frame-Relay Flow Control
- Standard SNMP Agent (MIB v2) Support
- Remote Management using Console, Rlogin, Telnet
- Web based Managements using HTTP Server

VPN Service

- IPSec VPN
- SSH

Security

- Standard & Extended IP Access List
- Access Control and Data Protections
- Enable/Disable for Specific Protocols
- Multi-Level User Account Management
- Auto-disconnect for Telnet/Console Sessions
- PPP User Authentication Supports

Operation & Managements

- System Performance Analysis for Process, CPU, Connection I/F
- Configuration Backup & Restore for APOS Managements
- Debugging, System Auditing, and Diagnostics Support
- System Booting and Auto-rebooting with Watchdog Feature
- System Managements with Data Logging
- IP Traffic Statistics with Accounting

IPv4-IPv6 Interworking Services

IPv4/IPv6 Dual Stack Protocols

- NAT-PT
- 6to4 Tunneling

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