

MontaVista® Linux® and the ZebOS® Access Products Suite

An End-to-End Solution for Access Equipment Vendors

Demand for cost-effective and technologically advanced Access devices is strong and growing. Broadband-enablement is becoming increasingly common in the enterprise, the home, and SOHO, and at the same time, the needs are becoming increasingly sophisticated. These Access devices demand advanced networking and security technologies, previously found only in higher-end, more expensive equipment. With growing broadband penetration, equipment manufacturers must now deliver these advanced and sophisticated technologies at more cost-effective price points.

MontaVista Software and IP Infusion have teamed up to deliver a complete solution stack that extends from the operating system kernel to the management layer. Using MontaVista® Linux® Professional Edition and the ZebOS® Access Products Suite, equipment manufacturers can rapidly and cost effectively integrate a real-time operating system, network management software, and a web user interface into their embedded access devices.

Complete Solution

- Residential and SOHO Gateways
- Home Media Servers
- Broadband Access Devices
- Intelligent TV Set-Top Boxes
- Wireless LAN and WAN Equipment
- Network-Enabled Game Consoles

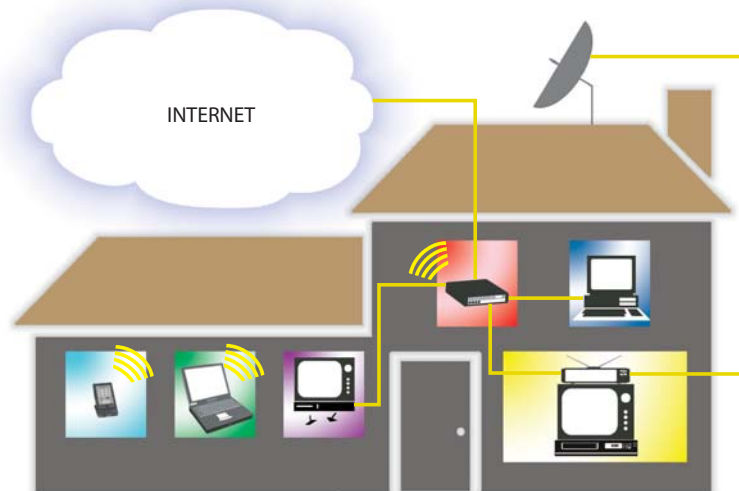


Figure 1 Integrated Access Products Solution

MontaVista Linux Highlights

- MontaVista Linux Kernel (based on 2.4.18)
- Preemptible Kernel and Real-Time Scheduler
- Development Hosts: Linux, Solaris, Windows
- Support for Most 32-Bit CPUs and 85+ Reference Platforms
- Comprehensive System and Application Tools
- Analysis and Configuration Tools
- 250+ Target Servers, Applications, Libraries

ZebOS APS Highlights

- Intuitive Web User Interface
- Stateful Packet Inspection Firewall
- Network Address Translation (NAT)
- Inbound and Outbound Access Control
- DHCP Client/Server
- PPPoE Client
- IPv4 and IPv6 Routing (RIP, RIPng)
- Industry-Standard CLI and SNMP Support
- System Logging Support



Technical Specifications

MontaVista Software and IP Infusion have packaged their complementary operating system, access management software, and development tools to best suit the needs of access equipment manufacturers. The award-winning MontaVista Linux OS is royalty free, available in both binary and source code format, provides a comprehensive development environment, and supports a wide array of processors. IP Infusion's ZebOS Access Products Suite (APS) provides the essential networking, security, and management functionality required for broadband access devices. The turn-key ZebOS APS is distributed in binary format, but provides source code for web interface customization.

To achieve rapid time-to-market, best of breed performance, and advanced technology goals, Access equipment manufacturers need a complete software solution from a source they can trust. That is why MontaVista Software and IP Infusion have partnered together to deliver an end-to-end solution for the access equipment market. MontaVista Linux Professional Edition is the leading embedded Linux platform and IP Infusion's routing suites are the premier IP networking products available. Together, this comprehensive solution stack enables development teams to cost-effectively achieve product goals.

Processor Support

- Motorola: PowerPC 7xx, 8xx, 74xx, 824x/8260
- Intel: IA-32 (x86/Pentium and compatibles), StrongARM 110/1100/1110, XScale (IXA, PXA, IXP, IXC)
- MIPS: NEC VR41xx/54xx/55xx, QED RM5231, RM7000A, Alchemy Au1000/1100/1500, MTI 4Kc/5Kc, Toshiba TX3927, 4925, 4927, 4937
- IBM: PowerPC 405H/L, 405GP, 405EP, 440GP, 750CX, 750FX
- Hitachi: SH-3, SH-4
- ARM: 720T, 920T, Altera EPXA1
- Tensilica: Xtensa XT2000

IP Networking Support

- IPv4 and IPv6 IP, TCP, UDP, ICMP, ARP, RARP, PPP
- DHCP server and client
- PPPoE client
- DNS client
- RIP and RIPng routing
- Static routing
- Static interface configuration

Security and Access

- Stateful Packet Inspection Firewall
- Network Address Translation (NAT)
- Virtual Server
- Inbound and Outbound Access Control

Management

- HTML Web User Interface for administration
- Industry-standard command line interface
- SNMP management support
- System event logging

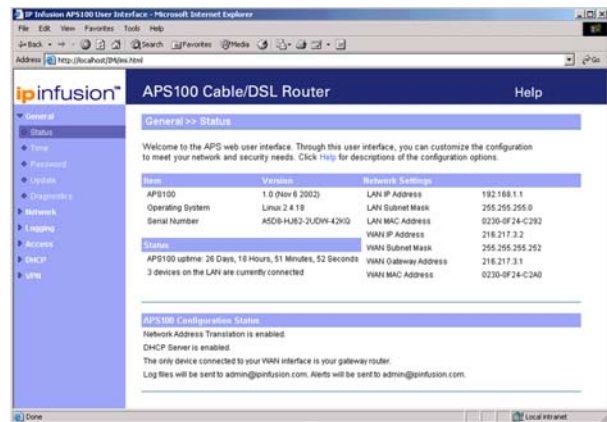


Figure 2 ZebOS APS Web User Interface

Linux Development Tools

- Graphical integrated development environment
- Cross and native C/C++ compilers (GCC)
- Kernel hardware debug (JTAG/BDM)
- Application kernel software debug (Ethernet/Serial)
- Application profiling and memory leak detection
- System and application event tracing
- Hundreds of additional tools and utilities



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