Ascend

OVERVIEW SUMMARY

MAX 6000

Dana Harrison

MAX Product Management

ASCEND

Product Positioning

The MAX 6000 is an excellent choice for those needing a reliable, high-density access switch in a compact package with high-end features and flexibility. The MAX 6000 delivers functionality and performance superior to the Cisco AS5300, Livingston PortMaster3, and Shiva LANRover Access Switch at a competitive price. The standard configurations are intended for ISPs, carriers, and IP-only corporate and business applications. The addition of the optional Intragy Access provides an ideal remote access system for multiprotocol corporate and business environments.

Product Overview

Ascend leads the dial-up access market because the MAX™ product line has enabled service providers to deploy more scalable and cost effective systems than any other vendor. Often imitated but never equaled, Ascend MAX products continue to set the high benchmarks in dial-up access switching. The MAX 6000 is Ascend's next-generation WAN access switch. It provides Internet Service Providers, carriers, and corporations the increased performance and expandability needed for both current and future access services.

In addition to the latest in hardware technology, the MAX 6000 uses the feature-rich True Access™ Operating System (TAOS) software and MAX Slot Cards that have been proven on the award-winning MAX product line. The MAX 6000 combines high modem density with the industry's most advanced access feature set, all within a low cost, low profile chassis.

Powerful. The MAX 6000 is the fastest access concentrator in its class. Thanks to its advanced hardware architecture and system software, the MAX 6000 is able to maintain performance right through the maximum configuration of digital and analog calls. The MAX 6000 provides the ultimate in performance and scalability in a two-rack unit access concentrator.

Comprehensive. The MAX 6000 is the perfect match for TAOS 6.0, the most full featured remote access system software available. Over nine years of development have gone into TAOS 6.0. No other access concentrator platform comes close to matching its comprehensive feature set.

Expandable. The MAX 6000 can keep up with the requirements of a growing business. Start at 8 digital modems and ISDN B-channels and grow to 96 and 120 respectively. Begin with the 16 MB of shared system DRAM and expand it to 32 MB, or add 32 MB of private DRAM for the central processor that does not contend with the I/O bus.[1] Start with 2 MB of internal Flash memory and expand to 10 as software and configuration requirements grow. Go with 10 BASE-T Ethernet initially and move to 100 BASE-T as your WAN data capacity increases. Begin with one MAX 6000 and MAX Stack them together to build a single virtual access switch.

Reliable. From its inception the MAX 6000 was designed around the most rigorous test of communications equipment available today; the Network Equipment Building System (NEBS) test, Level 3. These stringent design criteria required that the MAX 6000 be over-designed in many critical areas such as power supply capacity, heat dissipation capacity, mechanical impact resistance, and electrical shock resistance.

Manageable. The MAX 6000 is simple to install and configure with Ascend's graphical configuration application and offers comprehensive management with Ascend's comprehensive NavisAccess network management application.

[1] *To be supported in a future version of TAOS.*

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Target Applications

The following applications are enabled through with the MAX 6000:

Internet Service Provider connection service – Regional POP and NOC

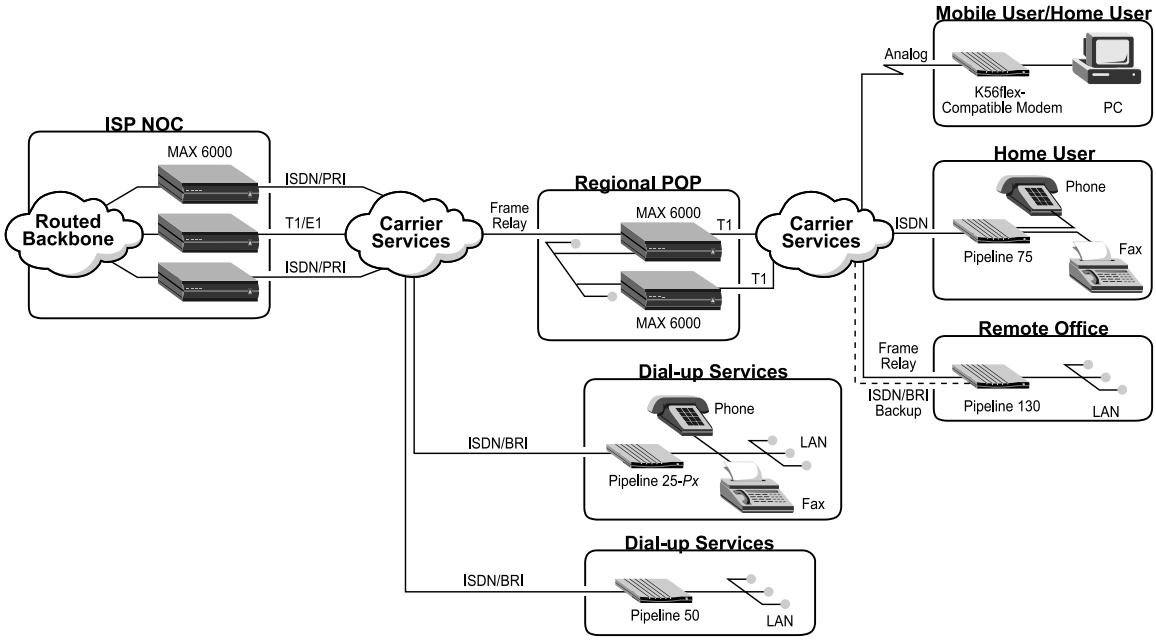

Figure 1 – The MAX 6000 can be used at a NOC or a regional POP to support multiple types of access services.

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ISP - Frame Relay Switching

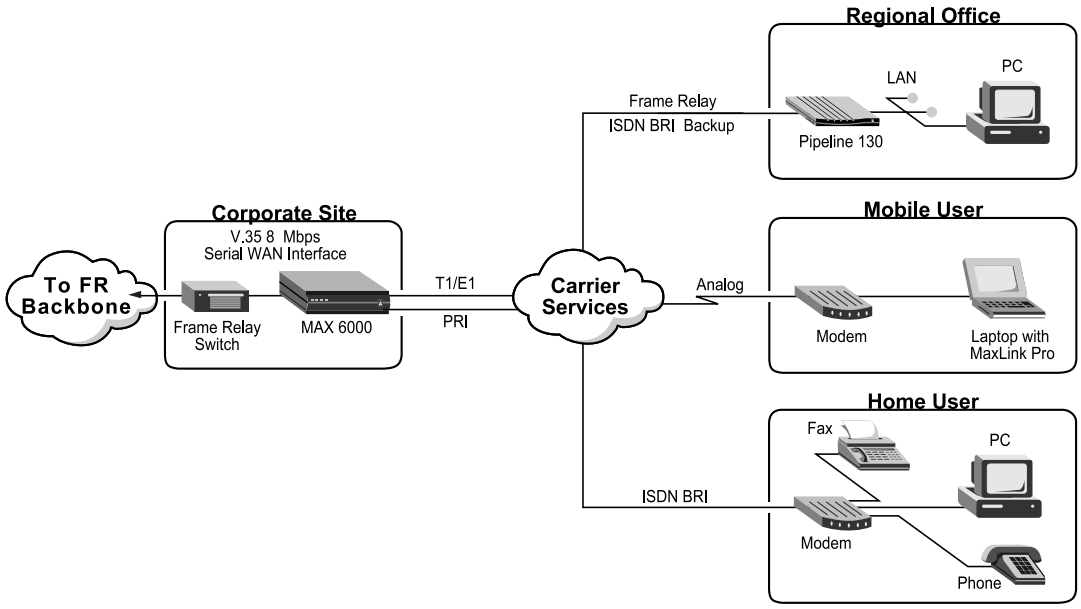

Figure 2 – The MAX 6000 can be used at a corporate site to support remote traffic from regional offices, mobile users and home users.

ISP – Frame Relay Backhaul

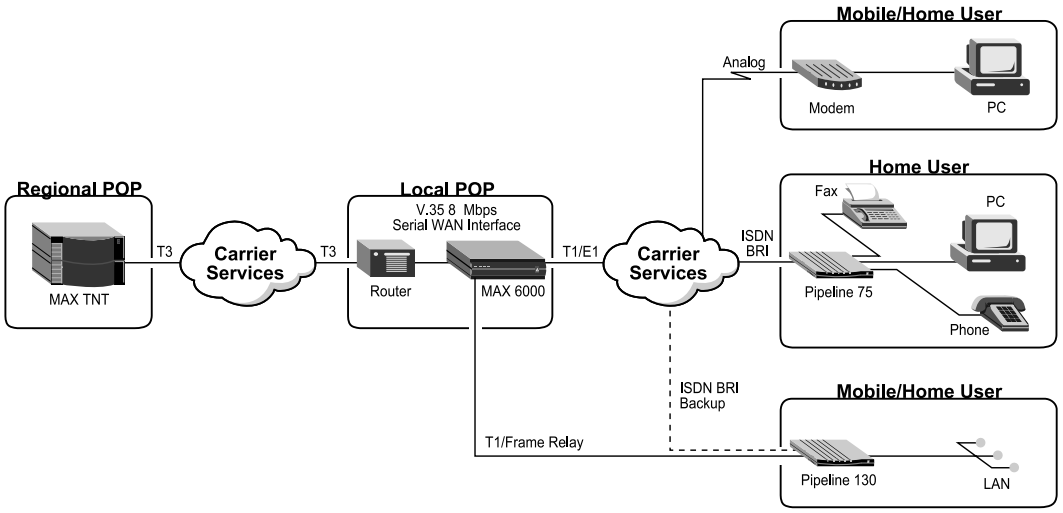

Figure 3 – The MAX 6000 can be used in a local POP to aggregate analog, BRI and T1/E1 Frame Relay for backhaul to a regional POP.

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Corporate remote access with Secure Access Firewall

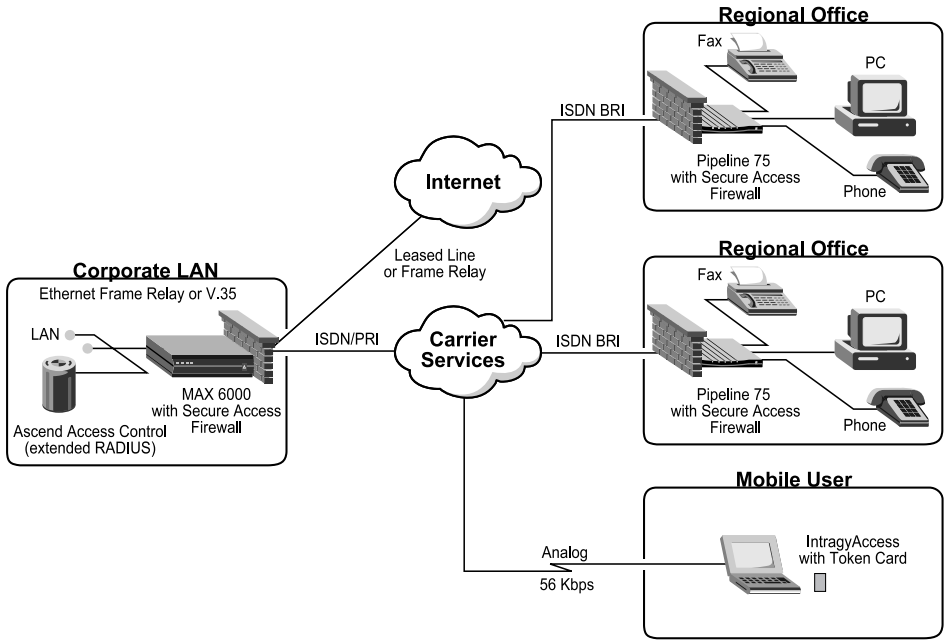

Figure 4 – Secure Access Firewall secures traffic from corporate resources from unwanted hacker attacks through the Internet.

Enterprise Virtual Private Networking

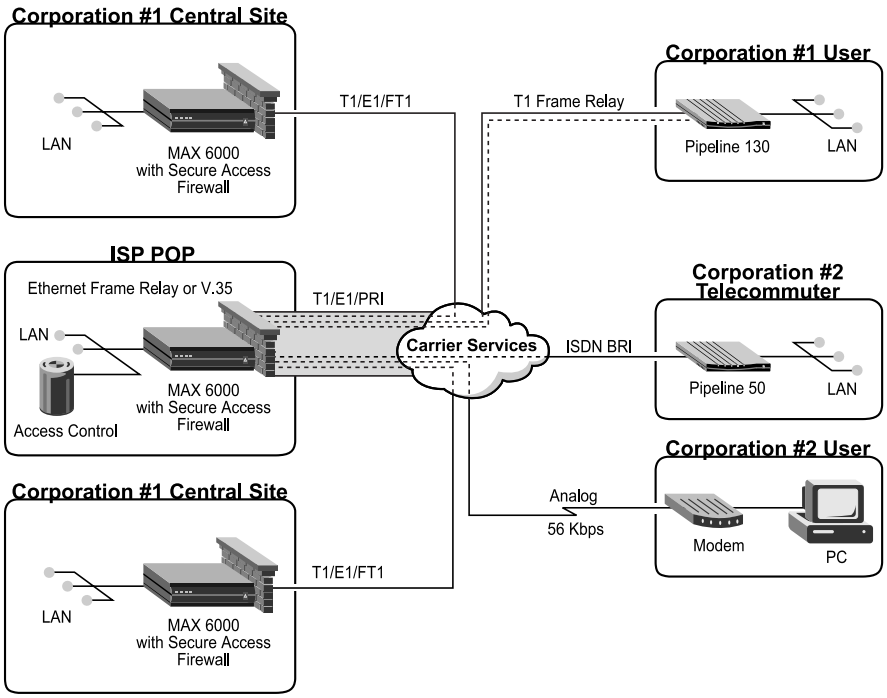

Figure 5 – The MAX 6000 can be used for establishing a secure Virtual Private Network over the public network.

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Videoconferencing

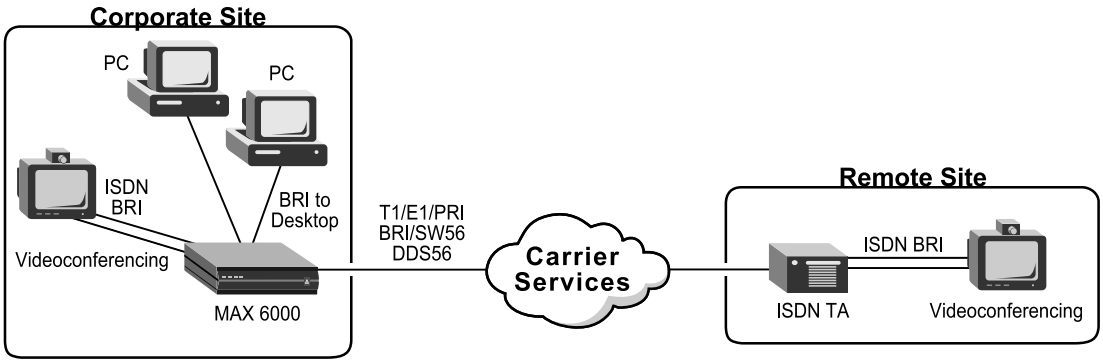

Figure 6 – The MAX 6000 can be used for videoconferencing applications such as BRI to the desktop.

Backup and Overflow

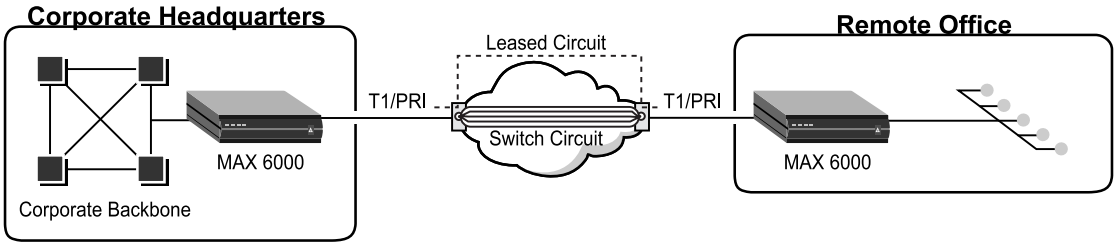

Figure 7 – The MAX 6000 ensures continuous availability by supplying backup and overflow capabilities

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Features

Ascend has taken the broad feature set that has made the MAX product line the access switch of choice for ISPs and designed the MAX 6000 for even greater performance and expandability. Here are some of the key areas where the MAX 6000 beats its competition.

High-Performance

The architecture of the MAX 6000 is structured to handle high-performance connectivity from the LAN and a variety of WAN access devices. With the latest in microprocessors from Intel, the MAX 6000's central processor provides more horsepower for CPU-intensive functions like packet forwarding and filtering.

In addition to high performance for the switch's central processor, Ascend offers a multiprocessing architecture with the K56flex and V.90-compatible Series56™ Digital Modems. This provides for increased system processing capacity on the MAX 6000 as well as increased capacity for the individual modems.

The MAX 6000 also features increased compression capacity, which can provide considerably higher throughput.

Since compression can increase the total throughput capacity, the MAX 6000 has been designed to handle 100 Mbps Ethernet. This allows the MAX 6000 to fully utilize all 4 T1 or E1 ports, even with compression, without being limited by LAN speeds. The autosensing 10/100Base-T interface allows the MAX 6000 to exist in either legacy Ethernet environments or scale to Fast Ethernet networks.

High Modem and ISDN B-Channel Density

The MAX 6000 was designed to allow for a high modem density in a low-profile chassis. While only taking up 2 rack units of space, it can handle up to 6 of the 16-port Series56 Digital Modems, allowing 96 connections from K56flex, V.90, or V.34 analog clients. For digital connections, such as ISDN or Frame Relay, a software upgrade with Global Digital Access 6000 provides up to 96 (with 4 T1s) or 120 (with 4 E1s) digital connections. This allows the MAX 6000 to handle 4 T1s or 4 E1s in any combination of analog or digital connections.

System Memory Expansion

The MAX 6000 has two separate slots for memory expansion. The first is a PCMCIA slot that is used to increase the system's FLASH memory and the second slot is a custom slot that allows an increase in the system's DRAM.

The FLASH slot accepts an 8 MB PCMCIA card to increase the storage of system software and configuration from 2 MB to 10 MB. This feature not only allows for multiple software images to be stored on the chassis for hot fail over reliability, but it also lets network administrators duplicate software images and configurations across multiple MAX 6000 chassis.

With the addition of a 32 MB custom DRAM card, the MAX 6000 can increase its standard system memory from 16 MB to 48 MB. This provides for better overall system performance, as well as provides a method to ensure support of future software features. With the increased sophistication of new standards and a growing need to support a variety of protocols, the expandability of the system DRAM provides investment protection of the MAX 6000 customer

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Support for TAOS 6.0

Ascend's True Access™ Operating System 6.0 is the software that gives the MAX 6000 its broad range of WAN access capabilities. TAOS has been developed over a period of 9 years working closely with both large and small network and Internet Service Providers (ISPs) around the world to incorporate the features they have requested to run their businesses more profitably. It has been hardened in the most demanding WAN access networks in the world giving it the reliability needed in today's mission-critical networks. TAOS 6.0 provides the most versatile and manageable software for WAN access, and supports the most comprehensive list of standard protocols in the industry.

Compatible with MAX Slot Cards

In addition to the common software architecture, the MAX 6000 shares the same slot cards that are currently available on the rest of the MAX product line. These are the slot cards that are responsible for handling the majority of today's Internet traffic, and will continue to work in the MAX 6000 as they have in MAX products for years.

Slot cards include:

- 8-, 12- and 16-port Series56 Digital Modem slot cards
- 8- and 12-port V.34 Digital Modem slot cards[1]
- 8-port IDSL slot cards
- 8-port BRI slot cards (Network Services model and Data Terminal model)
- 2- and 6-port IMUX slot cards for video applications and backup and overflow [1]
- 16-port Personal Handy-Phone System slot cards
- 8-port V.110 slot cards

Comprehensive Management Capability

NavisAccess

Ascend's NavisAccess™ network management software is the first tool designed for managing both points of presence and enterprise environments. NavisAccess is the only end-to-end, multi-vendor solution designed specifically for ISPs, carriers and corporate WANs.

Starting with a comprehensive view of the thousands of elements found at the access layer of the network, NavisAccess reaches across the enterprise to bring everything into clear focus: network devices (routers, switches, hubs); network services (Frame Relay, ISDN, ATM); and physical interfaces (T1, E1, ISDN, BRI).

- A multilayer view of devices, particularly at the access and switching layers of the network, where the fastest growth is found.
- The ability to manage the complete environment. NavisAccess goes beyond the limited "one-box-at-a-time" approach of most tools to implement functionality based on group definitions and group requirements.
- ISPs, corporations and carriers can manage large numbers of devices, particularly at the access layer.
- Corporate MIS departments use Navis for superior management of multi-vendor LANs and WANs, particularly if they have large remote access needs.
- Management of access devices including Ascend MAX, MAX TNT™, Pipeline® and GRF®
- Management of access lines and services (T1/E1, ISDN, BRI, PRI, xDSL)
- Management of elements by grouping into logical entities

[1] *To be supported in a future version of TAOS*

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Java Configurator

This Graphical User Interface (GUI) utility features a comprehensive QuickStart program that is designed to get users up and running in less than 15 minutes. This utility guides users through the application, and it gives users complete HTML-based on-line help. Network administrators can manage all functions of the MAX 6000 through their choice of interface—either locally or remotely—using intuitive, Java-based management software.

SNMP Management

The MAX 6000 is manageable via SNMP. Bundled into the chassis are industry standard MIBs, such as MIB-2, as well as rich MIB extensions for MAX-specific management. This allows network administrators to use standard network management applications like HP OpenView or SunNet Manager. As a result, network managers can integrate MAX products into an existing management structure.

MAX Management Menu

The chassis can be configured and monitored remotely through a user-friendly menu via telnet, local RS-232 port or dial-up across the WAN. Firmware upgrades can be performed across the network using TFTP or out-of-band using asynchronous communications such as a terminal server or modem. Events within the box can also be written to a syslog host.

Security Functionality

RADIUS and Ascend Access Control

The MAX 6000 has support for industry-standard user authentication systems that fit most contemporary network security architectures. Remote Authentication Dial-In User Services (RADIUS) is a network server-based authentication that comes standard with the MAX 6000 and provides easy management of large-scale remote access applications from a central site. In addition to the standard RADIUS 2.0 capability, Ascend offers Ascend Access Control™, which provides over 120 valuable extensions that increase the flexibility and security of RADIUS.

Secure Access Firewall

In addition to the numerous security routines supported in the feature-rich software, a fully integrated firewall is optional for the MAX 6000 products. Ascend's Secure Access™ Firewall is a dynamic firewall technology that delivers bulletproof security for a corporate LAN, remote office LAN and telecommuter LAN. This Ascend innovation prevents hackers from entering private networks and restricts applications that are not explicitly permitted. Ascend Secure Access™ Firewall is ICSA-certified and utilizes the most advanced dynamic firewall technology to overcome the limitations of the traditional static packet filtering technology. The dynamic firewall opens specific ports for authorized users only when required and it closes those ports at the end of the session. It also keeps all the unused ports closed at all times, thereby preventing hackers from accessing the network.

Virtual Private Networking

The growth of the Internet has produced a global network that allows consumers and businesses to exchange e-mail, market products through web sites, and do research. However, as we reach to the next level of business productivity, the Internet lacks the key services for corporations to do secure transactions across the public Internet.

Since the Internet is filled with Ascend access equipment, ISPs can offer services to corporate customers ranging from basic transport to value-added virtual private networks. Using Ascend's optional Ascend Tunneling Management Protocol (ATMP), Point-Point Tunneling Protocol (PPTP) support, or Layer 2 Tunneling Protocol (L2TP), ISPs and carriers can offer virtual private network services that provide the safety of a true private network. The VPN services allow ISP customers to utilize local dial-in resources and the Internet to achieve secure remote connectivity at a very low cost.

Ascend's VPN software is an option for the MAX 6000. It allows any ISP to implement virtual private networks. And for increased flexibility, VPN software allows a single MAX 6000 to provide virtual private network service to corporate intranet customers, while at the same time hosting full interactive access to the world wide web and the rest of the Internet.

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Enterprise Remote Networking

For corporations and businesses, Ascend's Remote Networking Software option allows remote users, telecommuters, mobile users and LAN users to have all of the capabilities needed to make secure connections to and from the central corporate network.

Multiprotocol Routing and Transparent Bridging

The Remote Networking Software option for the MAX 6000 products adds IPX and AppleTalk routing support so that network administrators can extend their network to offer a broad range of applications to their users. This optimized, low-cost solution links network users in remote or branch offices to corporate backbones for server access. Users can send e-mail, share data between servers and access remote databases.

The Remote Networking Software package also enables transparent bridging support. This allows corporations to run existing legacy protocols and non-routable protocols natively without requiring a reconfiguration of the network.

Multiprotocol Dial-in Access

Along with multiprotocol routing and transparent bridging support, the MAX 6000 also offers multiprotocol dial-in access. This allows clients to dial into the corporate network from a variety of different operating systems and access the corporate network. With support for PPP, AppleTalk Remote Access, and IPX spoofing, the MAX 6000 allows the multiprotocol corporate network to extend to remote employees and branch offices with the native protocols running within the corporate site.

DeskDial

Users on the LAN can access the outside world using DeskDial software and the MAX 6000. DeskDial eliminates the need to install a direct line and a desktop modem in every office by providing the same functionality, without the added expense. The software enables users to dial out or send faxes via the modem cards in the MAX 6000. DeskDial supports the AT command set for V.34 and all other modem modes and runs under Windows 3.1x and Windows '95.

IntragyAccess

LAN-based users access resources at a central site or the Internet through a MAX WAN access switch. It combines protocol stack software with an award-winning suite of applications to provide simultaneous access to both IP and IPX network services. The IntragyAccess client software is an option for the MAX 6000. The point-and-click operation makes it easy to configure, setup and customize applications according to specific networking requirements. Once connected, remote users become full-fledged nodes on the LAN with access to file servers, printers, the Internet and electronic mail. IntragyAccess provides Windows and Macintosh users with flexible remote access from anywhere when they are traveling, telecommuting, or working at a remote site.

Extensive Software Options

The MAX 6000 continues with the MAX tradition of providing the industry's leading software functionality. All of the software that has been used in existing MAX units in over 85% of the Internet providers is supported in the MAX 6000. Special software bundles have been implemented to provide solution to command remote access and ISP environments.

Global Digital Access 6000

Global Digital Access™ 6000 is a software bundle that provides for multiple types of digital connectivity into the MAX 6000. These types are DS0 call termination for ISDN B channels and Switched 56 calls, ISDN PRI, and Frame Relay support. The MAX 6000 base chassis contains 120 HDLC controllers, so MAX Slot Cards do not have to be added to support these digital services.

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DS0 Call Termination

With Global Digital Access, the MAX 6000 can accept connections from a variety of digital clients, including Switched 56, ISDN and Frame Relay. The only limit for the number of digital connections is the number of T1 or E1 lines that are terminated. The MAX 6000 performance can scale to handle a fully loaded system of digital clients.

Global Digital Access allows the following connection types:

- Switched 56
- 56/64 Kbps B-channels for ISDN
- 56/64 Kbps Frame Relay
- Up to 96 (T1) or 120 (E1) remote sessions

ISDN PRI Signaling

Global Digital Access 6000 provides integrated provisioning for ISDN PRI signaling on all T1 or E1 WAN interfaces. The unit is software configurable for 56K or 64K service including voice, data and CSVD.

Global Digital Access 6000 comes in four flavors, depending on the type of ISDN PRI signaling that is required in the specific country where the unit is being installed:

- MX60-SP-HA: Supports T1 PRI signaling used in North America
- MX60-SP-HA-INS: Supports INS1500 TI PRI signaling used in Japan and South Korea
- MX60-SP-HA-IX: Supports many of the E1 PRI signaling types used around the world
- MX60-SP-HA-R2: Supports R2 in-band signaling used with analog calls throughout the world over channelized E1

Frame Relay

The MAX 6000 can have up to 96 (T1) or 120 (E1) remote 56K or 64K Frame Relay or ISDN connections. The Frame Relay software integrates incoming Frame Relay traffic from Ascend's Pipeline and other Frame Relay access devices with analog and digital dial-in traffic. This software also allows the high-speed synchronous V.35 port to connect directly to a Frame Relay switch at speeds up to 8 Mbps.

- Route to multiple Frame Relay PVCs over single or multiple interfaces
- Supports up to 16 PVCs with RADIUS authentication software
- Dial-in PPP to Frame Relay gateway function with PVCs on a per user basis
- RFC 1490 encapsulation
- ANSI Annex D and ITU Annex A management
- PVC switching Frame Relay forum UNI and NNI
- Dial Access Signaling Interface (DASI)

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MAX Stack

MAX Stack allows multiple MAX chassis to be connected together via their Ethernet ports so that they function as one virtual access concentrator. The MAX Stack software feature allows several MAX units to operate as a single chassis, facilitating the negotiation of Bandwidth Allocation Control Protocol (BACP), Multilink PPP (MP), or Multilink Protocol Plus™ (MP+) calls across the T1/E1/PRI lines. Most members of the MAX product family can be connected together in a MAX stack. This significantly increases the scalability of the MAX product family and lets network administrators fully utilize their existing resources to better manage bandwidth on their network. The MAX Stack requires RADIUS for authentication. MAX Stack performance is dramatically enhanced over the 100 Mbps full duplex Ethernet channel standard on the MAX 6000.

In a MAX Stack, there is no “master” MAX so all members have the stack information required to manage the call. All stack members must reside on the same LAN and communicate with each other via an Ethernet multicast packet. Service providers have the flexibility to add or remove a MAX at any time without affecting performance. The management benefits of this feature include:

- Shared IP pools across multiple MAX units
- Single hunt group for all T1/E1/PRI lines on the stack, allowing calls to be routed to multiple destinations from one phone number.
- MP/MP+/BACP calls span across multiple chassis
- MAX Stack can monitor and manage multiple units as if they were a single virtual Network Access Switch

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Competitive Comparison Matrix

Feature	MAX 6000	Shiva LanRover Access Switch	Cisco AS5300	Livingston PM3	USR Total Control HiPer Access	Bay Networks Adapteon
List Price per Port/Density						
Modems/box	8 to 96	12 to 72	12 to 96	48*	24 to 336	8 to 576
WAN Connectivity/Bandwidth Management						
T1/E1	Yes	Yes	Yes	Yes	Yes	Yes
V.34	Yes	Yes	Yes	Yes	Yes	Yes
ISDN BRI	Yes	No	No	No	No	No
ISDN PRI	Yes	Yes	Yes	Yes	Yes	Yes
PPP	Yes	Yes	Yes	Yes	Yes	Yes
Frame Relay option	Yes	No	Yes	No	Yes	No
MP	Yes	Yes	Yes	Yes	Yes	Yes
MPP	Yes	No	No	No	No	No
MultiChassis MP	Yes	No	Yes	Yes	No	No
MultiChassis MP+	Yes	No	No	No	No	No
Hardware data compression	Yes	No	No	Yes	No	No
K56Flex compatible	Yes	Yes	Yes	Yes	No (x2)	Yes
LAN Interface Support						
10/100Base-T	Yes	No	No	No	Yes	Yes
Security						
PAP/CHAP	Yes	Yes	Yes	Yes	Yes	Yes
Dynamic Firewall	Yes	No	No	No	No	No
RADIUS	Yes	Yes	Yes	Yes	Yes	Yes
Extended RADIUS	Yes	No	No	No	No	No
Integrated Firewall	Yes	No	No	No	No	No
VPN Tunneling Support						
ATMP	Yes	No	No	No	No	No
PPTP	Yes	Yes	No	No	Yes	No
L2TP	Yes	No	No	No	No	Yes
L2F	Future	Yes	Yes	No	No	No
IPSec	Future	No	Yes	No	No	Yes

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Management and Control						
Full SNMP MIB support	Yes	Yes	Yes	Yes	Partial	Yes
Modem round-robin allocation	Yes	No	No	No	No	No
GUI configurator	Yes	Yes	Yes	Yes	Yes	Yes
Total network management	Yes	No	No	No	No	No
QoS reporting	Future	No	Yes	No	No	Yes
Multivendor router/switch support	Yes	No	No	No	No	No
Complete discovery and mapping	Yes	No	No	No	No	No
Multi-user, client server	Yes	No	No	No	No	No
Enterprise Support						
IP	Yes	Yes	Yes	Yes	Yes	Yes
IPX	Yes	Yes	Yes	Yes	Yes	Yes
AppleTalk	Yes	Yes	Yes	No	No	No
Client software	Yes	Yes	No	No	Yes	Yes
Dial-out	Yes	Yes	No	Yes	No	No

** 46 concurrent sessions*

Models and Pricing

MAX 6000 Chassis	Model Number	North American List Price	International List Price
Four T1/E1 WAN Access Switch chassis with six slots. AC or DC power cable and documentation included.			
T1 chassis with AC power supply	MX60-4T1-AC	$11,040	$11,040
T1 chassis with DC power supply	MX60-4T1-DC	$12,040	$12,040
E1 chassis with AC power supply	MX60-4E1-AC	N/A	$11,040
E1 chassis with DC power supply	MX60-4E1-DC	N/A	$12,040
Redundant Power Chassis with:			
T1 version with two AC power supplies	MX60-4T1-2AC	$16,040	$16,040
E1 version with two AC power supplies	MX60-4E1-2AC	N/A	$16,040
T1 version with two DC power supplies	MX60-4T1-2DC	$17,040	$17,040
E1 version with two DC power supplies	MX60-4E1-2DC	N/A	$17,040

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MAX 6000 Slot Cards	Model Number	North American List Price	International List Price
Series56 Digital Modem Slot cards K56flex and V.34 Digital Modems			
8-port slot card (up to six per chassis)	MX-SL-8MOD-S56	$4,400	$4,400
12-port slot card (up to six per chassis)	MX-SL-12MOD-S56	$5,700	$5,700
16-port slot card (up to six per chassis)	MX-SL-16MOD-S56	$6,800	$6,800
DSL Slot cards Eight-port IDSL slot card	MX-SL-IDSL8	$3,000	$3,000
ISDN BRI Slot cards Eight-port BRI "S/T" slot cards in two varieties			
For connection to network services	MX-SL-8BRIN	$4,500	$4,500
For ISDN data terminal equipment (with local switching)	MX-SL-8BRIT	$4,500	$4,500
Inverse Multiplexing (IMUX) Slot cards IMUX slot cards with V.35/RS-449/X.21 DTE interfaces. Includes software required for video (RS-366, Ascend Inverse Multiplexing (AIM), X.21, and BONDING) and backup and overflow (V.25bis and DBA).			
2-port IMUX card (video and/or backup and overflow)	MX-SL-2IMUX	$6,750	$6,750
6-port IMUX card (video)	MX-SL-6IMUX	$8,750	$8,750
6-port IMUX card for PictureTel videoconferencing	MX-SL-6IMUX-PT	$8,750	$8,750
Personal Handy-Phone System 16-port slot card for Japanese PHS system	MXHP-SL-DSP16	N/A	$10,000
V.110 Slot cards Eight-port V.110 slot card for GSM mobile users	MX-SL-8V110	N/A	$6,000

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MAX 6000 Software Options	Model Number	North American List Price	International List Price
Virtual Private Network (VPN) Enables support for ATMP, PPTP, and L2TP.	MX60-SO-VPN	$1,500	$1,500
IntragyAccess Enables Bridging, Multiprotocol Routing for Novell/IPX and AppleTalk, AppleTalk RemoteConnect Support, DeskDial, and MAXLink Pro.	MX60-SO-RNS	$4,000	$4,000
Global Digital Access 6000 ISDN PRI signaling, Frame Relay support, and digital access for up to 120 channels.			
With domestic ISDN PRI signaling	MX60-SP-HA	$3,000	N/A
With INS1500 ISDN PRI signaling	MX60-SP-HA-INS	N/A	$3,500
With R2 ISDN PRI signaling	MX60-SP-HA-R2	N/A	$3,500
With multinational ISDN PRI signaling	MX60-SP-HA-IX	N/A	$3,500
Secure Access Firewall Enables integrated dynamic firewall capability. Includes system software, Secure Access Manager and documentation.			
Standard Secure Access Firewall	MX60-SO-ASA	$4,000	$4,000
Shrink-wrapped version (mainly for stocking distribution)	MX60-SWUP-ASA	$4,000	$4,000
NavisAccess (Network Management System)			
Application			
HP OpenView 4.1 (on HP UX 10.x and Solaris 2.5)	[new]	$4,995	$4,995
Stand-alone for Solaris 2.5	[new]	$2,995	$2,995
Stand-alone for Windows NT 4.0	[new]	$995	$995
MAX 6000 chassis agents			
Basic Agent	N/A	Free	Free
Advanced Agent (extended MIB capability)	[new]	[new price]	[new price]
Navis Access Options			
Reporting and Capacity Planning	[new]	$3,995	$3,995
Multi-vendor support	[new]	$4,995	$4,995
Ascend Access Control Enables extended RADIUS support.	AAC-CD	$3,000	$3,000

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MAX 6000 Options	Model Number	North American List Price	International List Price
Memory Cards			
8MB PCMCIA FLASH memory cards	MX60-FLASH-8MB	$1,500	$1,500
32MB custom DRAM memory cards	MX60-DRAM-32MB	$2,500	$2,500
CD Companion			
CD-ROM containing client software for MAX Java Configurator, DeskDial, IntragyAccess, Secure Access Manager, Access Control demo, and NavisAccess demo	MX-CDROM	$20	$20
Documentation kits			
Hardcopy documentation	MX60-DOC	$75	$75
Warranty and customer support options			
Extended warranty	CS-EXT-MAXBND	$920	$920
Basic support	CS-BAS-MAXBND	$1,380	$1,380
Premium support	CS-PREM-MAXBND	$1,720	$1,720

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