Pipeline 220

Bert Forbes

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Pipeline 220
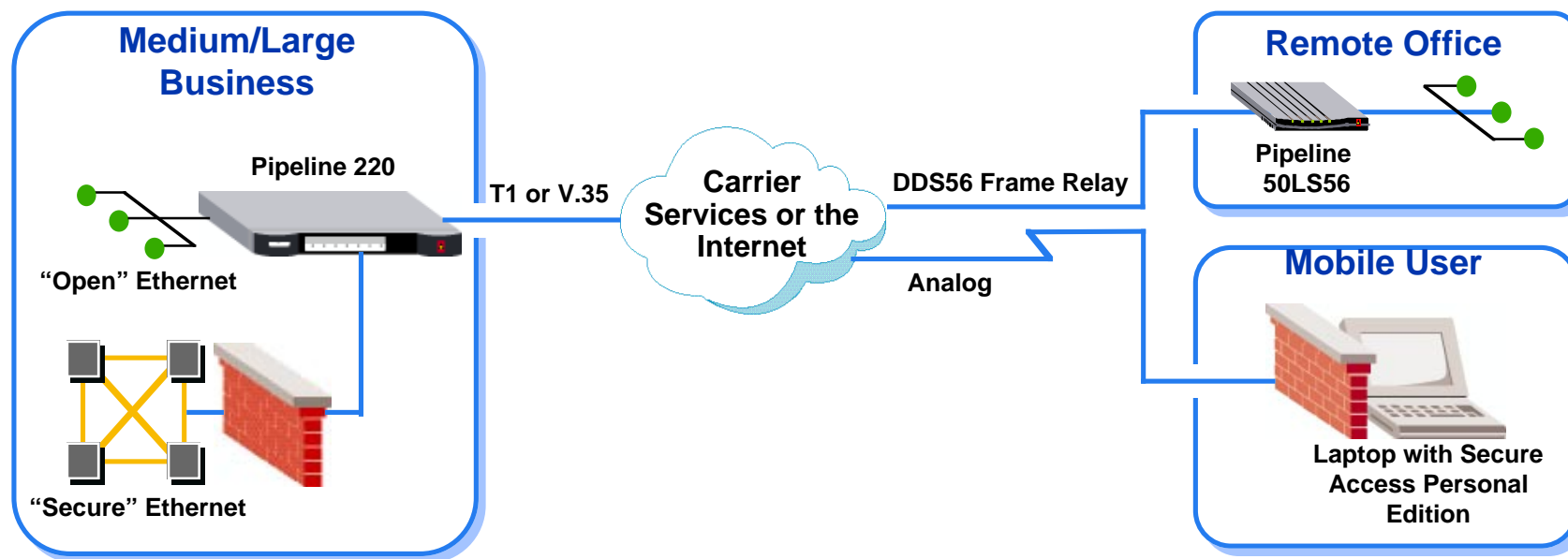## Contents

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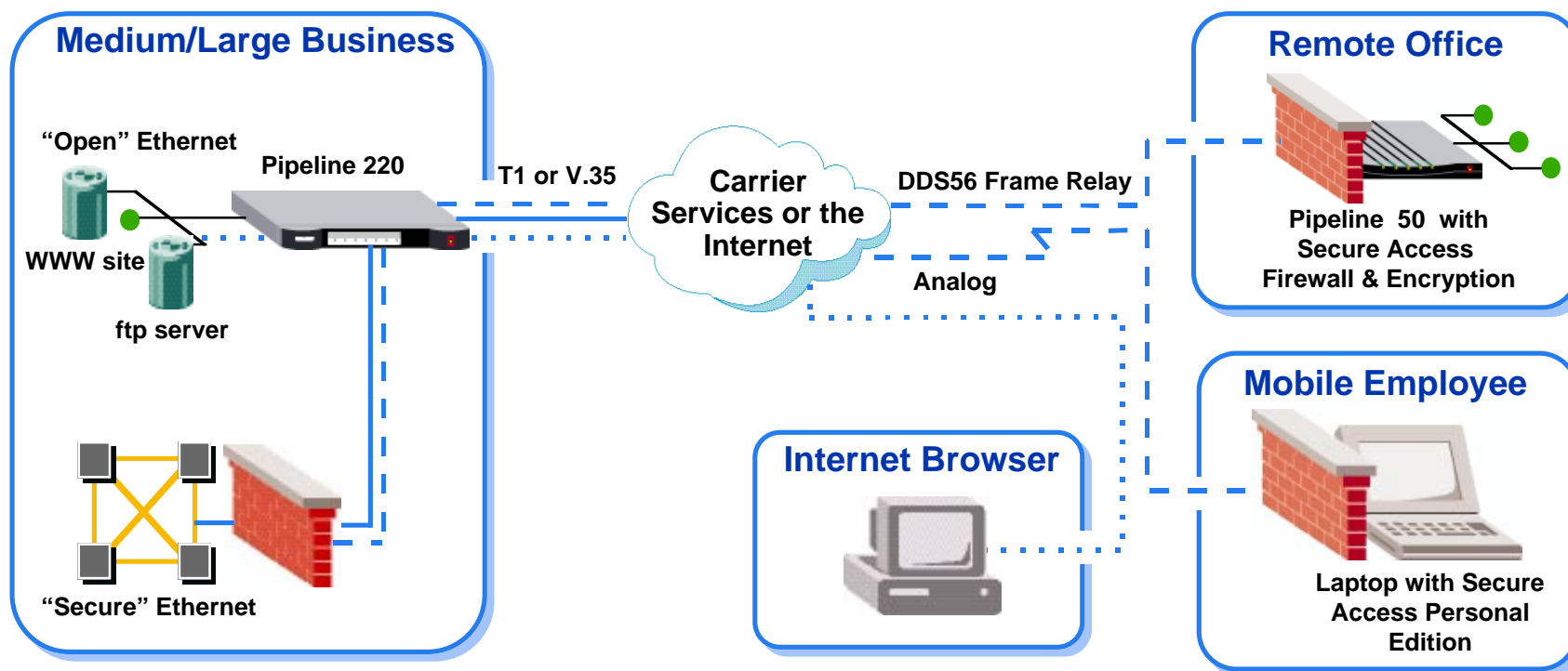
Pipeline 220 Applications
Dual Ethernet - Secure Access 2.0

Medium/Large Business

Pipeline 220

"Open" Ethernet

"Secure" Ethernet

T1 or V.35

Carrier Services or the Internet

DDS56 Frame Relay

Analog

Remote Office

Pipeline 50LS56

Mobile User

Laptop with Secure Access Personal Edition

- **Dual Ethernet support**
- **Optional Secure Access™ Firewall with IPSec encryption**
- **Concurrent multiprotocol routing**
  - **IP**
  - **IPX**
  - **AppleTalk**
- **Optional VPN tunneling**
  - **PPTP**
  - **ATMP**
  - **L2F**
  - **L2TP**
- **DRAM and FLASH upgradable**

Pipeline 220
IPSec Encryption through the Internet

Medium/Large Business

Remote Office

"Open" Ethernet

Pipeline 220

T1 or V.35

Carrier Services or the Internet

DDS56 Frame Relay

WWW site

Analog

Pipeline 50 with Secure Access Firewall & Encryption

ftp server

Mobile Employee

Internet Browser

"Secure" Ethernet

Laptop with Secure Access Personal Edition

- - - The remote office and mobile employee access the "secure" Ethernet through the Secure Access Firewall.

· · · · The unauthorized Internet browser is only allowed to access the "open" Ethernet.

Pipeline 220 Applications
VPN tunneling through the Internet

Central Site

Internet

T1, E1 or
ISDN PRI

MAX 4000

T1 or V.35

Remote Office

Pipeline 220

Ethernet #1 - IPX
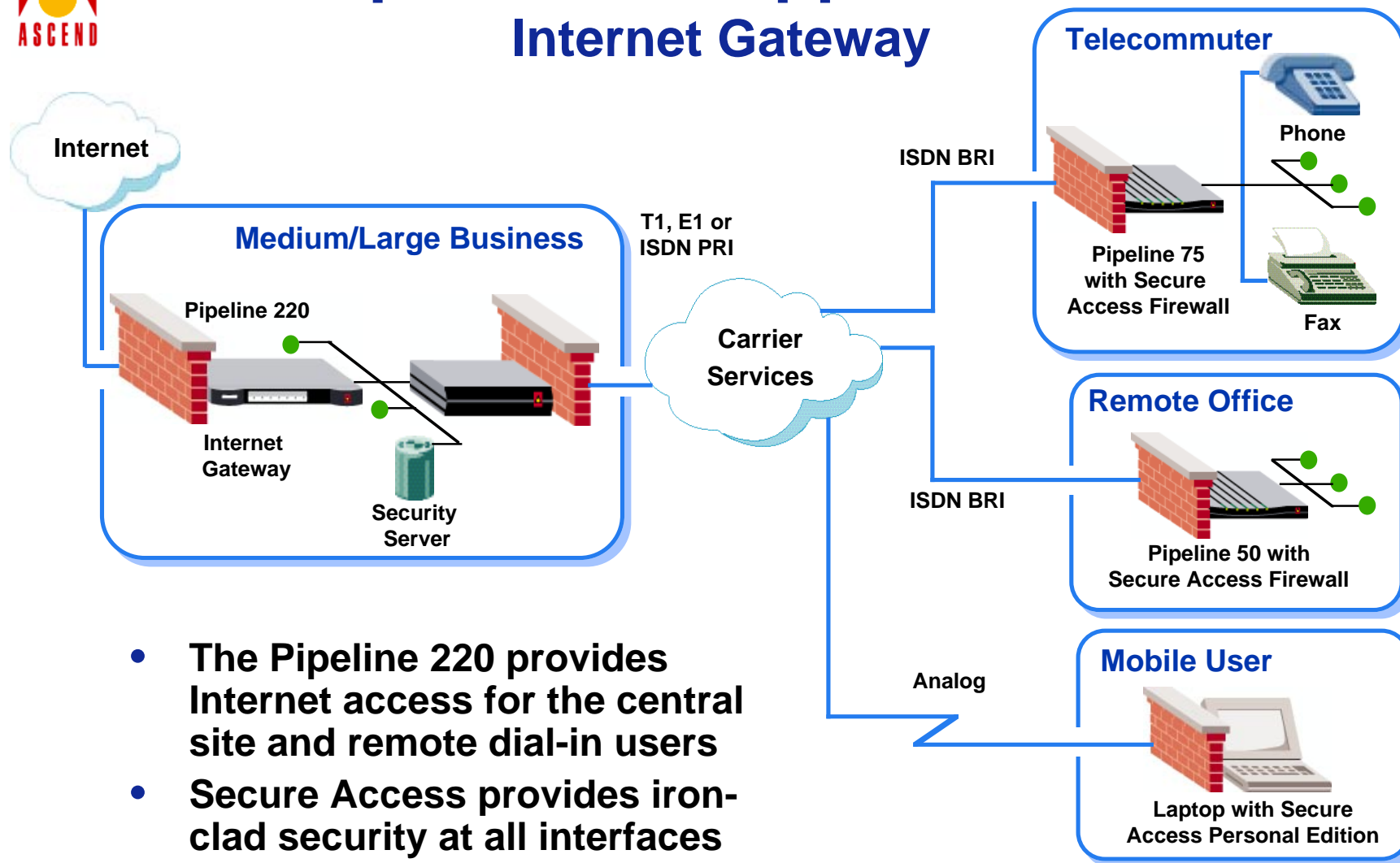
**Ethernet #2 -
AppleTalk & DEC**
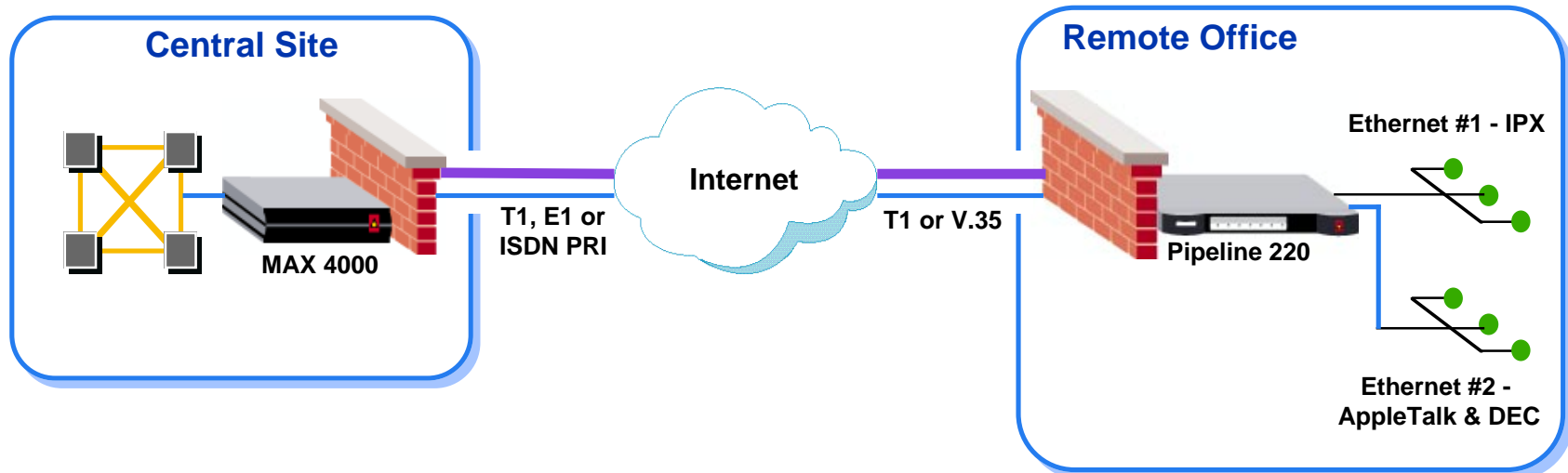
- **IPX, AppleTalk and other protocols are tunneled through the Internet with ATMP, PPTP, L2TP or L2F with the Pipeline 220**

Pipeline 220 Applications
Internet Gateway

Internet

Telecommuter

Medium/Large Business

ISDN BRI

Phone

T1, E1 or ISDN PRI

Pipeline 220

Carrier Services

Pipeline 75 with Secure Access Firewall

Fax

Internet Gateway

Remote Office

Security Server

ISDN BRI

Pipeline 50 with Secure Access Firewall

- **The Pipeline 220 provides Internet access for the central site and remote dial-in users**
- **Secure Access provides iron-clad security at all interfaces**

Mobile User

Analog

Laptop with Secure Access Personal Edition

Pipeline 220
Product Overview

- **Unchannelized T1/E1**
  - WAN protocols: PPP, Frame Relay
- **High-speed serial V.35 (RS-449)**
  - X.21 support
- **Dual 10Base-T Ethernet ports**
- **DRAM upgradable**
- **Flash memory upgradable**

Pipeline 220
Standard Features

- **Unchannelized T1/E1 or V.35 (RS-449) high-speed serial interfaces**
  - Software configurable
- **Dual Ethernet ports**
  - 10Base-T
- **Network Address Translation (NAT)**
- **Dynamic Host Configuration Protocol (DHCP) server spoofing**

- **Support for flash memory upgrades**
  - Via integrated PCMCIA slot
- **Flash EEPROM**
  - Makes software upgrades easy
- **Support for DRAM memory upgrades**
  - Via integrated single height 8-pin connector slot
- **Java-based configuration utility**
  - or VT100 LCD configuration
- **Multiprotocol routing**
  - TCP/IP
  - IPX
  - AppleTalk

Pipeline 220
Optional Features

- **SecureConnect™**
  - Includes integrated Secure™ Access Firewall with IPSec Encryption
- **VPN Tunneling**
  - ATMP, PPTP, L2TP, L2F
- **DRAM Memory**
  - 8, 16 and 32 MB upgrades
- **Flash Memory**
  - 8, 16 and 32 MB upgrades

Pipeline 220
Target Customers

The most flexible and secure router for:

- **Medium to large businesses**
- **Remote offices**
- **Internet Service Providers**

Pipeline 220
Competitive Analysis

Product	Ascend Pipeline 220	Cisco 2514	Compatible Systems 2240R
Base List Price	$2,995	$2,695	$2,695
Software	Included	$295	Included
CSU/DSU	Included	$1,000	Included
Firewall	$2,000	$11,500*	No
Encryption	Incl. w. firewall	Incl. w. firewall	No
VPN Tunneling	$1,500	Proprietary	No
Multiprotocol routing	Included	Included	Included
Total Configured Price	$6,495	$15,490	$2,695
Routed Protocols			
IP	Yes	Yes	Yes
IPX	Yes	Yes	Yes
AppleTalk	Yes	Yes	Yes
Memory			
Flash	2 MB	4 MB	1 MB
DRAM	8 MB	4 MB	1 MB
LAN Connectivity			
Ethernet	10Base-T	AUI	10Base-T
Segments Supported	2	2	2
WAN Connectivity			
T1 Interface	Yes	Yes	Yes
V.35/RS-449	Yes	Yes	No
Frame Relay	Yes	Yes	Yes
PPP	Yes	Yes	Yes

*Cisco PIX system w. DES encryption

Pipeline 220
Pricing and Availability

Model Number:	Description:	Price:*
P22-T1-V35	Pipeline 220 T1 or V.35 router	$2,995
P22-E1-V35	Pipeline 220 E1 or V.35 router	$2,995

Software Options

P22-SO-ASA	Secure Access/IPSec s/w option	$2,000
P22-SO-VPN	VPN tunneling s/w option	$1,500

After-market Field Upgrades

P22-SWUP-ASA	Secure Access/IPSec upgrade	$2,000
P22-SWUP-VPN	VPN tunneling upgrade	$1,500

Ordering: Immediately - Shipping 30 Days ARO

*US Domestic List Price