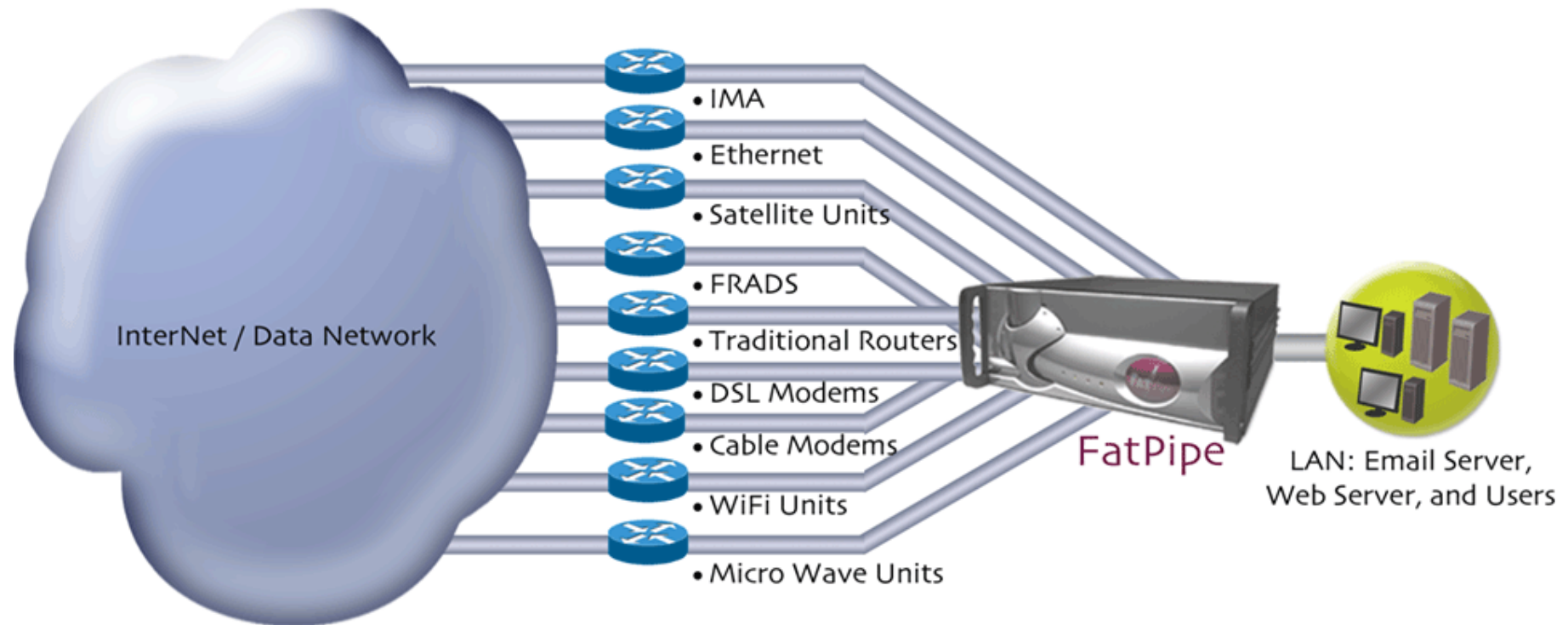# Value Proposition

Router Clustering WAN Technology for the Highest Levels of Redundancy • Reliability • Speed • Security

What Is FatPipe?

FatPipe is an industry leading company that manufactures, sells and maintains patented router clustering technology.

What Does FatPipe do in a Network?

- All FatPipe's router clustering products provide redundancy, reliability, dynamic load balancing, and aggregated speed of WAN connections

- Intelligently senses router status and automatically reroutes traffic to available lines when services fail

- Dynamic and intelligent load balancing methods traffic without BGP

- Utilizes any combination of DS3, T1, E1, E3, DSL, ISDN, cable or wireless connections

- Sits transparently in a network

- "Set it and forget it" solution to prevent WAN downtime

- Does not require any hardware or software at the ISP site (No ISP cooperation)

FAT/Pipe

www.fatpipeinc.com

FatPipe Networks

- FatPipe Networks is the inventor and multiple patents holder of router clustering technology for deployment of mission critical Internet/WAN access

- FatPipe's core product line provides redundancy, reliability, speed, dynamic load balancing and additional security of data transmission over any type of Wide Area Network (WAN)

- FatPipe has over 6,000 units deployed

- FatPipe Networks has offices in US (Utah, Arizona), and abroad (the U.K., India and Australia)

2003, 2004, 2005, 2006, 2007, 2008

www.fatpipeinc.com

FatPipe Networks' Patented Technology

- FatPipe Technology is protected by seven U. S. patents

  6,775,235 Tools and techniques for directing packets over disparate networks

  6,493,341 Combining routers to increase concurrency and redundancy in external network access

  6,295,276 Combining routers to increase concurrency and redundancy in external network access

  6,253,247 System and method for transmitting a user's data packets concurrently over different telephone lines between two computer networks

  7,269,143 Combining routers to increase concurrency and redundancy in external network access

  7,406,048 Tools and techniques for directing packets over multiple parallel disparate networks based on address and other criteria.

  7,444,506 Methods, devices, and systems for efficient secure parallel data transmission using a hybrid of public and private networks.

- Five additional patents have been filed

Why FatPipe?

- ❖ Problem: ISP/Telco Failure
- ❖ Solution: Redundancy & Diverse Access

- ❖ Problem: Saturation
- ❖ Solution: Policy routing & Load Balancing & QoS & Deny/Allow/Rooms

- ❖ Problem: Not Enough Bandwidth
- ❖ Solution: Load balancing & WAN acceleration/mgmt & Add (Ei-Eo) & Layer 3

- ❖ Problem: Natural disasters
- ❖ Solution: Automatic fail-over & Redundancy & Diverse Access

- ❖ Problem: Human Error
- ❖ Solution: Immediate notification & Redundancy & Diverse Access

- ❖ Problem: Terrorism and Corporate Sabotage
- ❖ Solution: Disaster recovery & Redundancy and Diverse Access

FATPipe

FatPipe Products

- **XTREME** is used by medium to large companies requiring redundancy for outbound Internet access e.g., Thin Clients.

- **WARP** is used by companies hosting internal servers, requiring reliability & redundancy for inbound and outbound traffic.

- **MPVPN**$^®$ binds multiple VPN paths for up to three time the redundancy, and nine time the security.

- **IPVPN** binds multiple managed and CPE based VPNs in to one single seamless WAN. No BGP or NNI programming is needed.

- **Symphony**: enables corporations to deploy a single web access control device at a centralized location in a hub and spoke setup to manage corporate-wide web access policies, while avoiding link bottlenecking issues and prohibitive costs associated with increasing bandwidth using private lines to meet end-user demand.

- **KOMPRESSOR** is a packet based compression device that improves your wide area network performance by increasing speed an average of three times.

- **Spam Police** is a network appliance that eliminates junk email and helps protect your network from harmful viruses.

FAT *Pipe*

www.fatpipeinc.com

FatPipe Router Clustering Products
## XTREME, WARP, IPVPN, MPVPN

- **FatPipe's RAIL**: Redundant Array of Independent Lines is a patented technology that aggregates multiple lines into one single *fatpipe*

- **Dynamic load balancing**: Automatically chooses the fastest connections available

- **Policy Routing:** Allows Administrators to direct outbound traffic based on specific, user-defined criteria, such as IP address or port

- **Works over multiple ISPs** and backbones for reliability

- **Proxy ARP:** No need to reset gateway IP address for client computers - saves time and money

- **Paging and e-mail emergency notification** Web-based management tools for remote monitoring and control

- **Supports multi-homing connections** over multiple lines
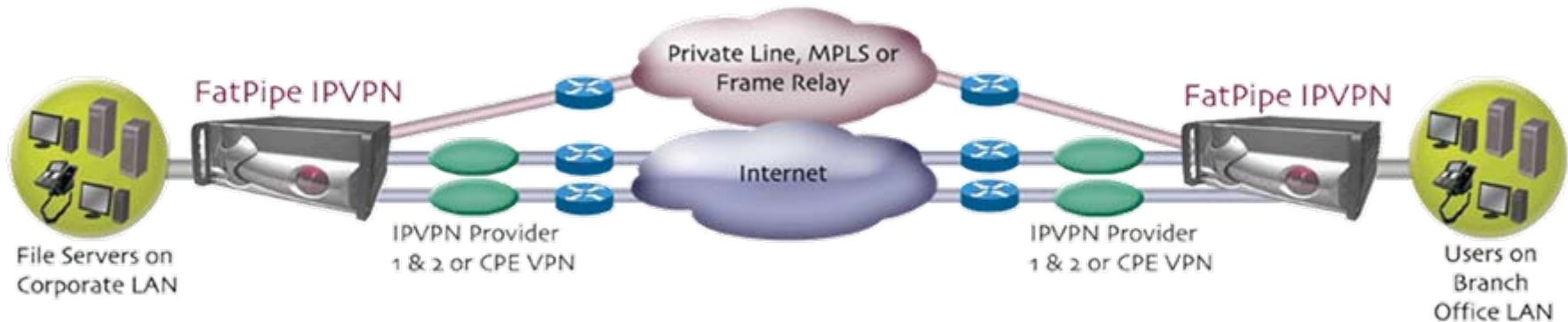
Fat Pipe
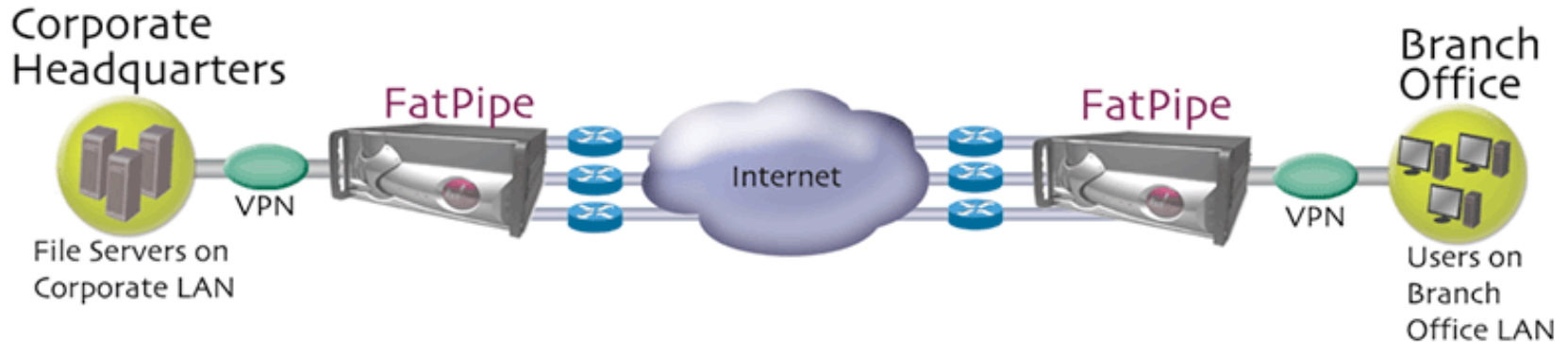
MPVPN

- **Customer Wants Increased Redundancy and Security for Existing VPN Infrastructure -** Recommend or sell additional lines to provide redundancy for any type of VPN scenario, e.g., data storage or mirrored networks.

- **VPN Site Failover add on -** MPVPN can be configured to provide failover of VPN tunnels from one site to another. The servers can be located in geographically separate locations and have identical or similar information at the main office and at the disaster recovery site. This is used by companies that have DR sites.

High Security with MPSec™

FatPipe

FatPipe

LAN

LAN

Data passes over multiple pathways to increasing security

FatPipe

LAN
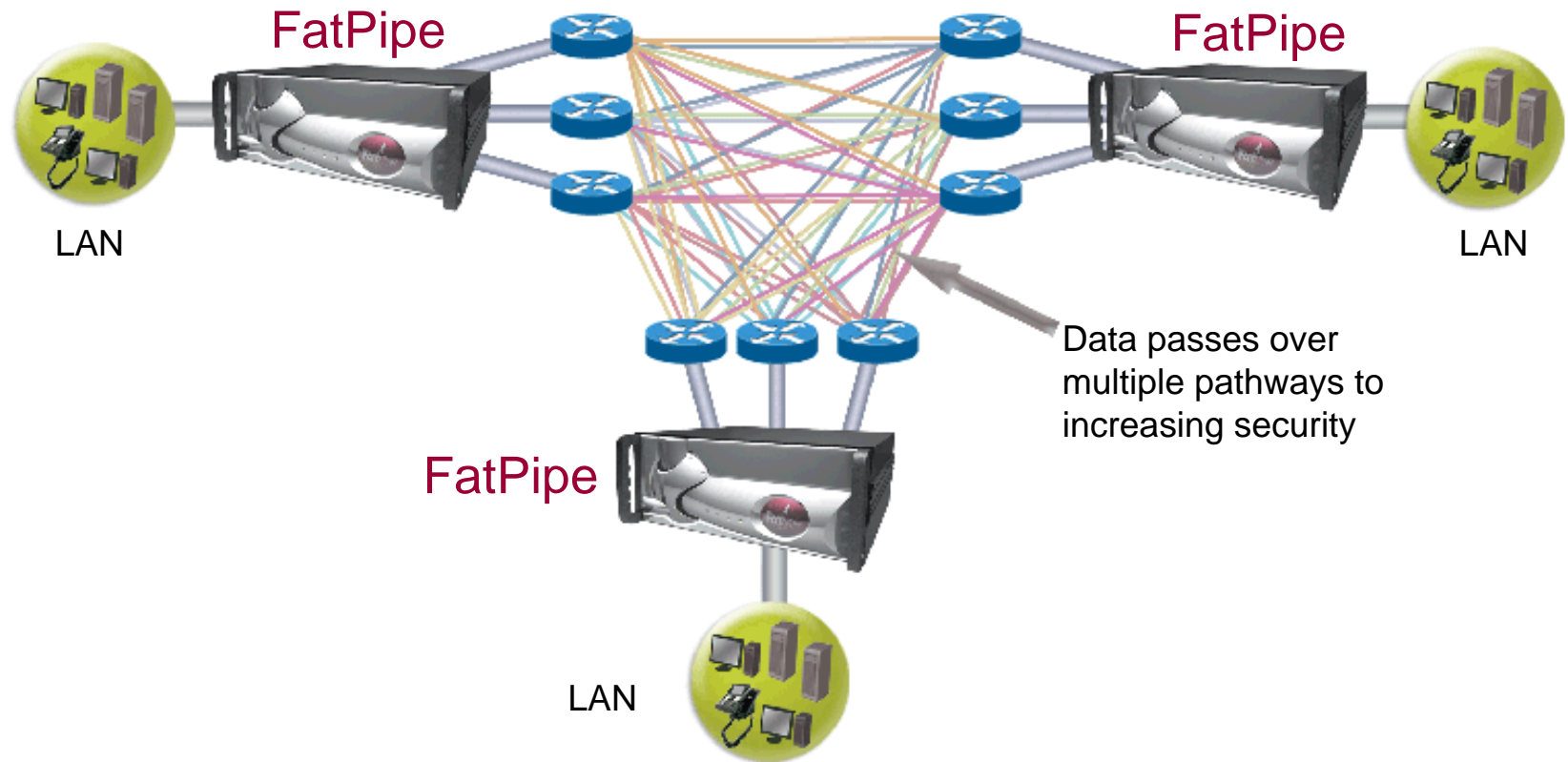
Multiple lines and routers enable the FatPipe device to transmit data in several permutations and combinations between offices, which makes it harder to sequentially trap data flow and decrypt the info in the correct order. This results is increased security of data transmission of sensitive information.
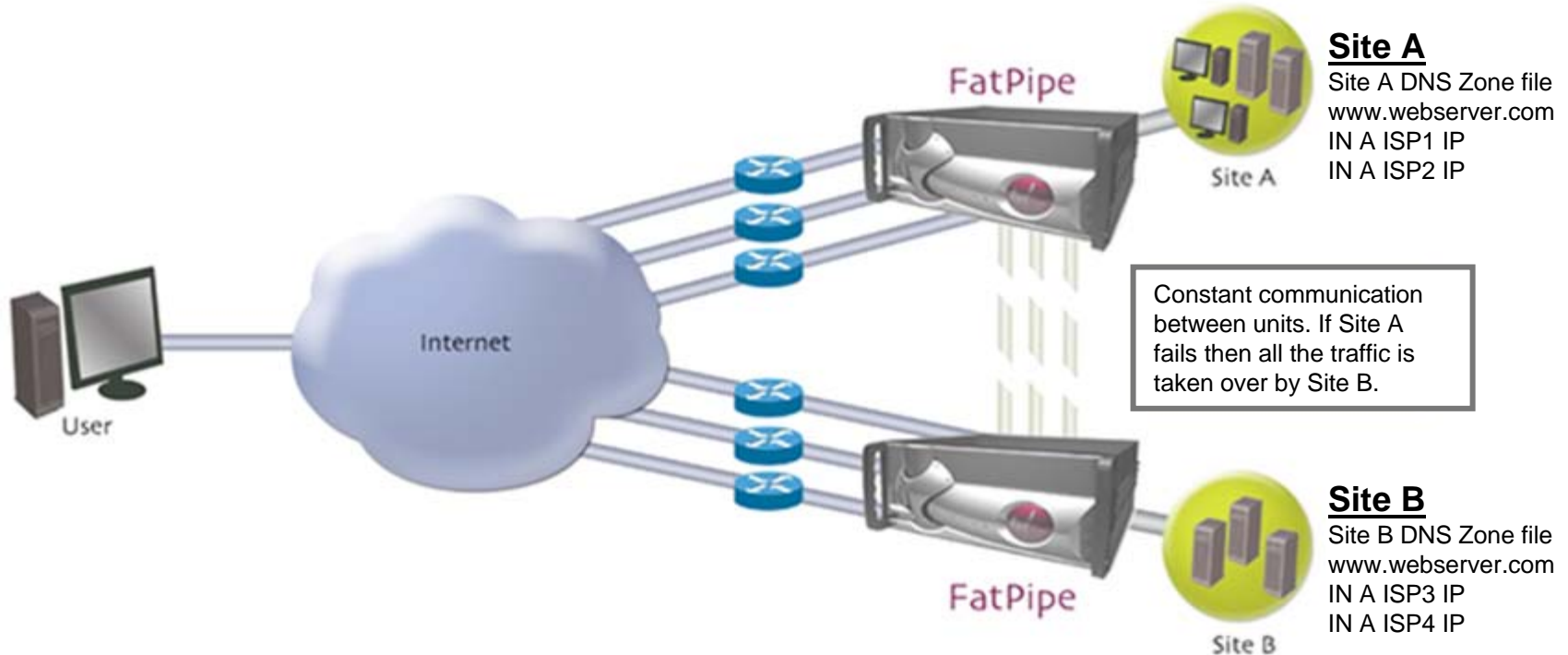
FAT *Pipe*

IPVPN

- **Customer Wants to Backup its Frame Relay with a Managed or CPE Based VPN -** Sell your VPN solution (managed or CPE based) as a backup to the frame. FatPipe IPVPN allows you to aggregate and failover the frame connection with one or more Internet connections.

- **Customer Wants to Aggregate Frame or Point-to-Point lines** – IPVPN can bind frame clouds or private lines for speed and reliability, eliminating the need and reoccurring cots of NNI.

- **Customer Wants Redundancy for VoIP and/or Streaming Video -** IPVPN provides the highest level of fault tolerance for VoIP and streaming videos.

FatPipe Site Load Balancing Functionality

FatPipe A and FatPipe B keep constant communication between one another. They check each other's status and they share DNS information. FatPipe A is the primary, and by default all traffic to www.webserver.com will be directed to Site A using IP addresses at Site A. If Site A goes down then Site B will take over Authoritative DNS and all traffic to www.webserver.com will be directed to Site B.

Site A
Site A DNS Zone file
www.webserver.com
IN A ISP1 IP
IN A ISP2 IP

Constant communication between units. If Site A fails then all the traffic is taken over by Site B.

Site B
Site B DNS Zone file
www.webserver.com
IN A ISP3 IP
IN A ISP4 IP

www.fatpipeinc.com

Feature Add Ons

- **QoS:** FatPipe's Quality of Service (QoS) can help your customers optimize the efficiency of their Internet connections by providing tools to control congestion by guaranteeing bandwidth, and prioritize data flow up to ten levels.

- **Site Load Balancing:** Provides failover between two or more locations. It can also distribute traffic between sites. FatPipe products are the only products that can automatically failover one multi-line location to another multi line location regardless of carriers at each location.

- **IPSec:** Allows customers to create point-to-point VPN tunnels without the need of an additional encryption device.

- **Compression:** Data compression can be added on to MPVPN, increasing network capacity up to three times. By compressing packet payload and eliminating redundant data traffic over a WAN, FatPipe Compression technology significantly increases a network's throughput, bringing significant cost savings immediately.

- **Centralized Manager:** Manages all FatPipe devices from a single location.

- **VPN Site Failover** - MPVPN can be configured to provide failover of VPN tunnels from one site to another. The servers can be located in geographically separate locations and have identical or similar information at the main office and at the disaster recovery site. This is used by companies that have Disaster Recovery Sites.

FAT Pipe

Easy Management

Easy to use Diagnostic Tools

View a real-time graphical display of the up / down status of all lines.

www.fatpipeinc.com

Contact Information

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