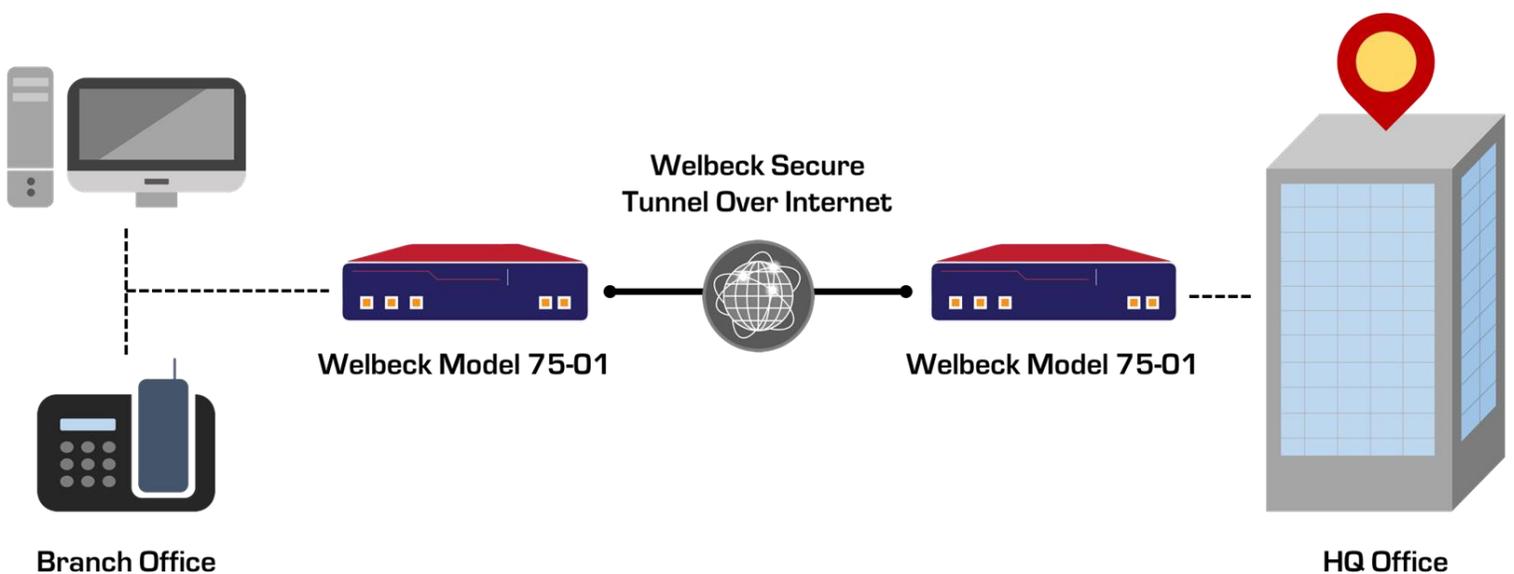# Welbeck Secure
Assured Connectivity

- **TLS v1.2 Transport**
  Security superior vs. MPLS, IPsec VPN or SSL

- **FIPS 140-2 Compliant**
  AES 256 encryption

- **Low Latency**
  High capacity tunnels

- **Failover redundancy**
  Built in link bonding, balancing and failover

- **MPLS–like functionality**
  at less than 50% of the cost of leased lines

Welbeck Secure provides superior connectivity and security at lower cost than older MPLS and VPN technologies. Welbeck avoids the need for costly "edge" devices or complicated configuration that adds cost and often undermines security. Our secure tunnels are carried over any internet connection or 3G/4G cellular network, protected with best of breed TLS v1.2 and available FIPS 140-2 - compliant encryption.

Welbeck extends all network functionality to any location. Just like with MPLS, users have access to all LAN resources, including databases and LAN applications that don't work over VPNs. It's like MPLS without the cost of leased lines or dedicated fiber.

Reliable connectivity with built-in failover redundancy. Our COTS software and robust devices are designed to be always–on 24/7. In case there is an interruption in communications or any network component, link bonding and failover protection provides hot-hot redundancy.

End-to-End Security Without Loss of Productivity

Welbeck Secure
Tunnel Over Internet

Welbeck Model 75-01

Welbeck Model 75-01

Branch Office

HQ Office

Secure End-to-End Layer 2 Tunnel. Any Device, Any IP Connection

Case Study: Mesh Network for Medical Payments Processor

- **Mesh network across three data centers**

- **Automatic failover redundancy**

- **User access to all network resources**

- **TLS v1.2, AES 256 encryption for HIPAA compliance**

We were approached by a medical payments processor that needed a reliable, secure solution to connect three data centers, two in New Jersey and a DR site in Phoenix, AZ. After Hurricane Sandy, both data centers in New Jersey went down, and users were unable to connect to the DR site because their VPNs were pointing to IP addresses in New Jersey.

We designed and installed a mesh network across the three sites. Our integrated failover automatically redirects traffic if one center goes down. Because we do not use IP addresses as part of the association, all users have access to all network resources regardless of location or IP address.

Maximizing Bandwidth Utilization Reduces Cost

Welbeck Secure
Implementation Examples

- Access Controls
- Data Centers
- Enterprise Networks
- Facilities Security
- Government Contractors
- Healthcare Providers
- Secure Cloud
- Smart Buildings
- Teleworkers
- VoIP and Video
- Infrastructure Monitoring

Welbeck's approach to encryption provides high – level AES 256 encryption without sacrificing bandwidth. By contrast, an IPsec VPN running the same level of encryption will generally consume 15-16% of the available bandwidth for the encryption overheads. Welbeck avoids this "encryption tax" by running at Layer 2 instead of running a Layer 3 routed VPN, and by integrating compression to win back the bandwidth that is used for encryption.

Our Ethernet-over-IP approach to remote connectivity is agnostic to the interface or protocol, enabling Welbeck to connect legacy systems without replacing existing equipment. We work with any hardware, operating system or application.

We also solve the challenges of Internet service quality. Our integrated technologies overcome latency, packet loss, jitter and fragmentation issues that may render connections unreliable, especially for large file transfers. If Internet connections are not readily available, our 3G/4G cellular units provide secure access over existing cellular networks.

Our COTS products range from cost-effective compact appliances for remote connections up to rack-mounted concentrators, virtual appliances (VMware, ESXi, Hyper-V and Oracle VirtualBox environments) and cloud instances.

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