



Wholesale

Ethernet (W-ETN)

power to you

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W-ETN gives customers economy of scale by enabling them to run inter-office applications across Wholesale Ethernet technology.

A flexible high speed networking solution, W-ETN enables you to resell fully managed end to end ethernet services to your customers.

Technical overview

In point to point or multipoint configurations, W-ETN is ideal for:

- Access services to provider networks
- Stand alone connections to service provider sites
- Connections to 3rd party sites
- Backbone connections
- SAN networking
- Disaster recovery solutions

Wholesale's W-ETN is hosted on high performance Extreme Networks Ethernet switches and delivered to site as a direct Cat6 cable extension from a switch port (where host switch is co-located at customer site). W-ETN can also be delivered via single mode fibre to a media converter (where host switch is located at a Vodafone PoP). W-ETN uses a 10 gigabit switched Metropolitan Area Network (MAN) via Wholesale PoPs in Auckland, Hamilton, Tauranga, Palmerston North, Wellington, Christchurch and Dunedin.

Wholesale Ethernet (W-ETN) features and benefits:

Features	Benefits
Highly scalable robust infrastructure – extensive reach in metro areas	Expand your network without investment in additional infrastructure
Straight forward interface architecture	No investment in additional infrastructure required – Plug and Play
Multi protocol support (routable and non routable)	Works with your current network architecture – TCP/IP, IPX, DECnet, AppleTalk and Vines. Includes support for NETBIOS, NetBEUI and LAT.
Vodafone managed and maintained	Leverage Vodafone's considerable expertise - focus on your customers – not your network
Safe & Secure VLAN management	Customers are free to focus on core business with critical business data security ensured.

W-ETN - Supported Configurations

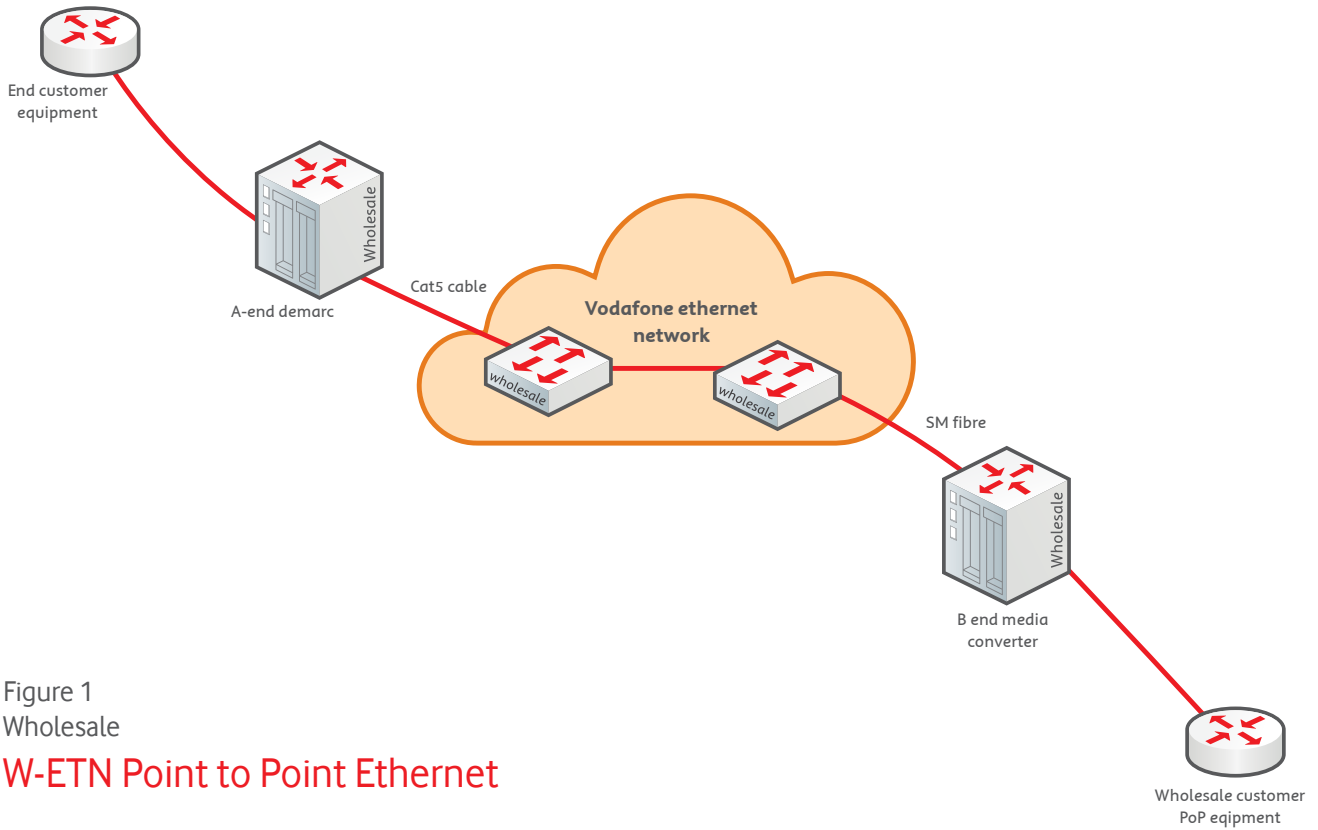


Figure 1
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W-ETN Point to Point Ethernet

Wholesale's W-ETN supports a point to point connection between two sites across a single Vodafone managed VLAN. Both sites are placed in a dedicated ethernet service transmitting unicast traffic via a native ethernet connection. When using WTN in point to point configuration, it is recommended both sites operate at the same bandwidth.

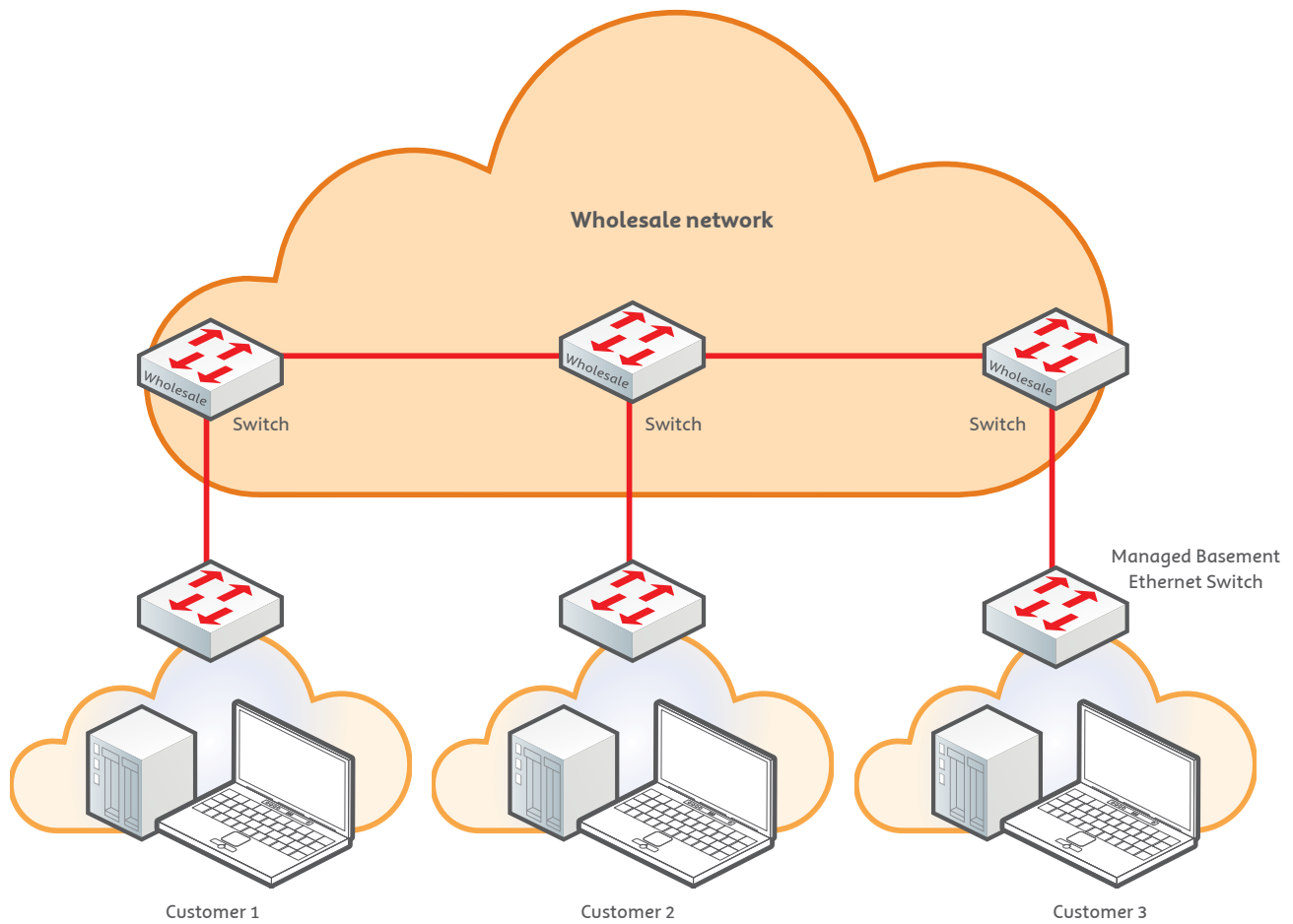


Figure 2
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W-ETN Multipoint Ethernet

Wholesale's W-ETN supports a point to point connection between two sites across a single Vodafone managed VLAN. Both sites are placed in a dedicated ethernet service transmitting unicast traffic via a native ethernet connection. When using WTN in point to point configuration, it is recommended both sites operate at the same bandwidth.

W-ETN Aggregated Ethernet (IEEE802.1Q Tagging Standard)

Wholesale's Ethernet service allows multiple point to point (multipoint) services to be delivered via different VLANs to a single 100Mbps Or 1000Mbps W-ETN port at your PoP. This aggregation port is configured as an ethernet 802.1q port and will present each VLAN to your CPE. VLAN numbering is assigned from a Vodafone assigned number range.

Customer interface

W-ETN is available at access speeds of 256K – 1Gbps. Interface speeds are set at 10/100/1000mbps and conform to IEEE standards. The service delivery point for a W-ETN interface is typically an RJ45 modulator jack on a block or jack strip, or on a media converter.

Associated products

Retailers looking to deliver customer site solutions over Ethernet may also be interested in **Wholesale Transmission** and **ATM** when building a core infrastructure to provide a secure nationwide backbone as part of their value proposition.

W-ETN allows you to sell high performance – high speed connections over ethernet to deliver scalable point to point or multipoint connections.

To order Wholesale W-ETN, or for further information please contact your Wholesale Account Manager.

