



Fact Sheet

Data Solutions

Wholesale Carrier Grade Ethernet



Premium grade bandwidth

Wholesale Carrier Grade Ethernet offers a platform that delivers high-speed data connectivity and service quality, enabling customers to experience premium performance for real-time, converged and data-centric applications.

Wholesale Carrier Grade Ethernet is our premium Ethernet transmission service, provided over our proven, national transmission infrastructure. Capable of bandwidths ranging from 10Mbps to 10Gbps, it also provides seamless incremental bandwidth scalability, which means any changes to capacity requirements can be rapidly managed with virtually no service disruption.

Wholesale Carrier Grade Ethernet is the ultimate foundation to deliver Ethernet services individually, or to further enhance specialised IP/Ethernet service infrastructure.

There are currently two Carrier Grade Ethernet connectivity services offered by Telstra Wholesale:

- Point-to-Point
- Aggregated Point-to-Multipoint.

Options are also available for performance levels and connectivity continuity.

Customer value	Features and benefits
One supplier	Proven infrastructure with a national reach Achieve operational efficiencies and network simplicity with a wide reaching ethernet service and dedicated support teams
Efficient resource use	Clear channel, non-contended, quality transmission Supports network applications and protocols over ethernet with minimal performance degradation No restrictions on VLAN tags, MAC addresses and Spanning Tree operation for Point-to-Point services
Peace of mind	Carrier-grade quality, uptime and security Provides a stable, secure foundation for any converged, mission-critical, multi-service network
Increase productivity	Flexible scalability and reach Customers can expand their businesses with confidence knowing that the service's reach is taken care of by Australia's largest geographical footprint
Improve productivity	Seamless capacity management Lower costs through standard ethernet interfacing No need for protocol conversion or WAN interfacing devices



Wholesale Carrier Grade Ethernet is available in two topologies: point-to-point and point-to-multipoint (aggregated) and both are illustrated below. Please note that the aggregated illustration is one potential configuration. Account managers can provide more information on configuration alternatives.

Wholesale Carrier Grade Ethernet Point-to-Point Configuration



Wholesale Carrier Grade Ethernet Point-to-Point Configuration



Features and benefits

- Enjoy SDH-level resilience and performance with the simplicity of ethernet interfacing using a simple, managed Ethernet NTU provided directly at the customer site.
- Dedicated bandwidth with negligible jitter and latency enables the widest variety of QoS-driven customer network applications
- Carrier-grade performance and transparency, ideally suited for:
 - IP DSLAM aggregation and PoP inter-capital connectivity
 - Consolidated trunking to international IP gateways
 - Multi-service, QoS-enabled IP router inter-connection.
- Rapidly respond to customers' business needs with shorter lead times and seamless bandwidth adjustment, with speeds of up to 10 Gbit/s.
- Based on the Layer 2 carrier-grade network, customers can maintain full control over their Layer 2 and Layer 3 traffic with a service of the highest quality.

Coverage

Wholesale Carrier Grade Ethernet allows our customers to connect business sites located in the metro areas of Melbourne, Sydney, Brisbane, Canberra, Adelaide and Perth.

Prerequisites

There are no product prerequisites.

Wholesale Carrier Grade Ethernet customers will need to sign a customer relationship agreement (CRA).

**TELSTRA WHOLESALER IS DETERMINED TO HELP YOU DELIVER
RELIABLE AND FLEXIBLE SOLUTIONS TO YOUR CUSTOMERS.**

Configuration

Wholesale Carrier Grade Ethernet presents 802.1 protocol ethernet to the customer's location.

Pricing

Charges for Wholesale Carrier Grade Ethernet are composed of two elements: installation and ongoing rental.

Installation is based on interface type and location and is charged per port.

Additional once-only fees apply for other work, including for example:

- desktop or detailed study if the study is successful and an order is not placed
- adds, moves and changes
- aggregation charge on the port to enable aggregation. This charge is based on interface type.
- upgrade or downgrade of bandwidth
- upgrade of interface types
- extension of the service in the customer premises
- extension of the network boundary to the customer premises and enablement of protection options that require network boundary changes.

Ordering

Wholesale Carrier Grade Ethernet is ordered with an application form available from a Telstra Wholesale account manager. Completed forms will then be sent to the Wholesale Customer Service team for orders to be raised.

Billing

All services are billed one month in advance.

All Wholesale Carrier Grade Ethernet charges are included on the customer's standard Telstra bill. Each service allocates a full national number (FNN) for every port and virtual local area network (VLAN). Charges are then allocated through codes to the FNN, which appears on the bill.

Delivery

Wholesale Carrier Grade Ethernet is delivered by optical fibre or copper cable – depending on technical constraints – to a customer's premises.

Operations and maintenance

The standard service assurance for Wholesale Carrier Grade Ethernet is one hour for response and 12 hours for restoration in the metro areas of Melbourne, Sydney, Brisbane, Canberra, Adelaide and Perth.

Additional SLA restoration assurance levels are available for purchase. Telstra Wholesale account managers can provide more details.

Managing faults

Wholesale Carrier Grade Ethernet faults are reported to the Wholesale Support Centre (NWSC). The customer is required to provide the FNN of the service, a description of the fault and contact details.

For further information

Customers can find out more about Wholesale Carrier Grade Ethernet by contacting a Telstra Wholesale account manager or at our website www.telstrawholesale.com

