

Fact Sheet

Asynchronous Transfer Mode (W-ATM)

WHAT IS IT?

TelstraClear Wholesale's Asynchronous Transfer Mode (W-ATM) is a transmission service suited to the simultaneous transfer of voice, IP, data or video on the one network. It handles bursty and constant traffic at the same time, while optimising bandwidth demand. The service enables cost effective interconnection of multiple sites with bandwidths between 2Mbps and 622Mbps.

With W-ATM, you can build high quality solutions and competitive offers for your customers based on diverse applications and features such as scalability, flexibility and reduced costs.

WHAT DOES IT DO?

TelstraClear W-ATM provides the network infrastructure you need to develop your own or your customers' networks. Whether you need a DSL network, voice, IP or data transmission service, you'll benefit from the network quality and availability provided through our unique dedicated Switched Data Network and extensive New Zealand coverage.

Multiple, concurrent virtual circuits can simultaneously carry different types of traffic without these streams of traffic interfering with each other.

Our longevity as a supplier and our reliable networks, help to ensure your own differentiated products and infrastructure have long term sustainability.

TelstraClear Wholesale offers a variety of connectivity solutions to support a range of applications both domestic and international. Table 1 summarises these solutions.

	Solution				
Domestic	SDH/PDH	Nx64k	ATM	Frame Relay	Ethernet/IP
	Wholesale Transmission (W-TX)	Data Access Radial Point to Point & Multipoint (DAR-S & DAR-M)	Wholesale Asynchronous Transfer Mode (W-ATM)	Wholesale Frame Relay (W-FR)	Wholesale Ethernet (W-ETN)
International	International Private Lines (IPL)		International ATM and International Frame Relay (I-ATM & I-FR)		Global Internet (W-INT International)



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WHO IS IT FOR?

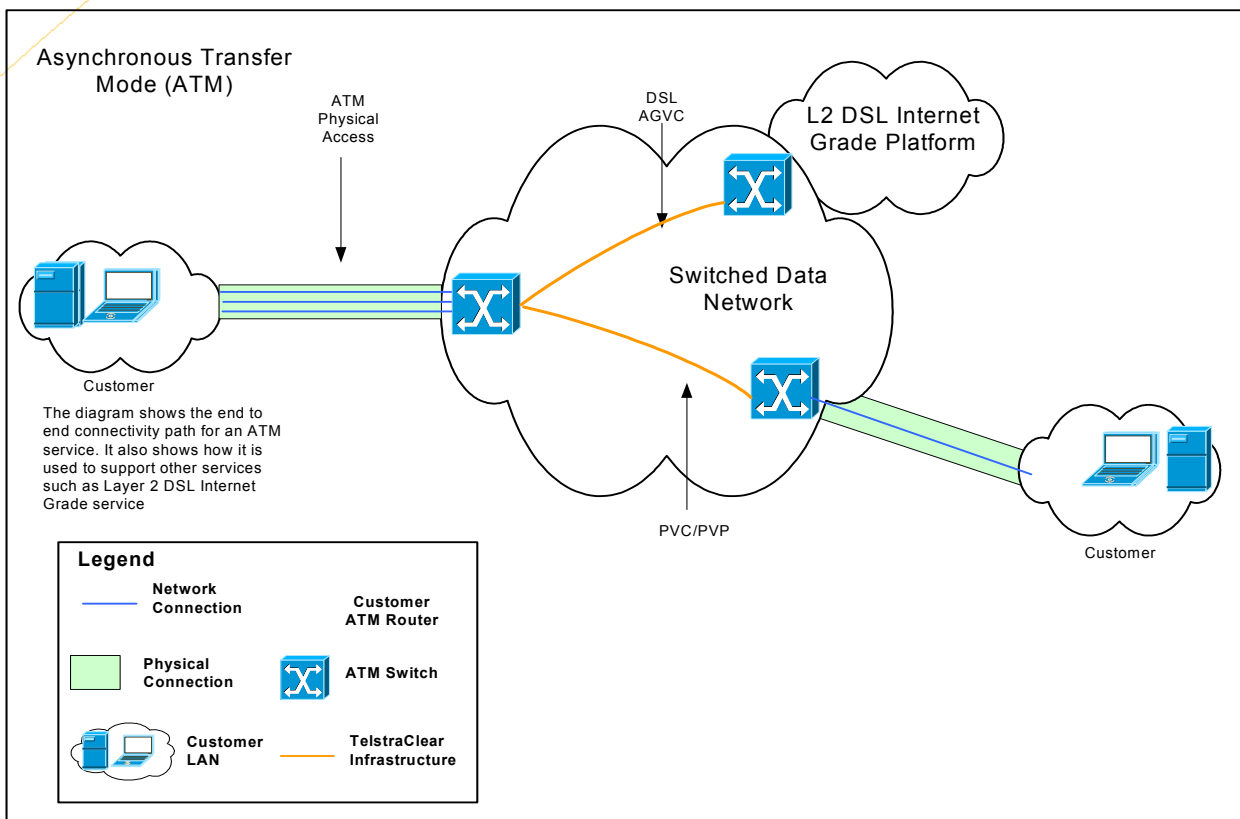
W-ATM is for network builders, major carriers and ISPs. It gives you access to TelstraClear Wholesale broadband and Frame Relay products and allows aggregated delivery of other products such as Telstra Wholesale's Internet and MegaPoP® products.

HOW DOES IT WORK?

W-ATM circuits are made up of three basic components – access circuit to each customer site, an associated ATM switch port for each access circuit and Permanent Virtual Circuit(s) of various classes of service which are mapped across the TCL network between switches.

The access circuit connects the end customer CPE equipment eg Router to a port on the serving TelstraClear ATM switch. The access circuit is delivered to customer site via a connector on a TelstraClear supplied NTU or mounting plate. A range of interfaces are supported i.e. 2M G.703.

Each permanent virtual circuit is assigned a unique Virtual Path and Virtual Circuit Identifier (VPI.VCI) which is locally significant on each access.



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WHAT ARE THE BENEFITS?

With this solution you can offer your customers competitive solutions that substantially reduce costs because one network carries all types of traffic

The key benefits of TelstraClear Wholesale ATM services include:

- **Shared access** - ability to aggregate multiple types of traffic from different TelstraClear Wholesale products such as broadband access (DSL), TelstraClear Wholesale Internet, MegaPoP and TelstraClear Wholesale Frame Relay.
- **Domestic reach** - W-ATM is available almost anywhere in New Zealand where TelstraClear's network reaches.
- **Diverse application** - W-ATM with its varied QoS (quality of service), can handle multimedia applications via the same 'pipe' as well as more traditional voice, video and data applications.
- **Burstability** - W-ATM's variable bit rate service allows a customer to transmit bursty traffic. The peak burst rate is typically set at twice the sustained rate. This suits most data applications and can save thousands of dollars.
- **Meshing** - you don't need a separate physical termination for each communication link. Links connecting multiple offices can terminate on one interface for simplified and less costly CPE connectivity.
- **Scalability** - you are not forced into capital intensive migration to another carriage product when business growth demands extra capacity/bandwidth.
- **Flexibility** - W-ATM will grow with your business with access speeds available up to 622Mbps. You will not be forced into trying to quickly add more physical access links when network bandwidth requirements suddenly increase. If business growth rapidly increases, W-ATM will keep up with the fast upgrade of transmission links.
- **Cost effective** - you can reduce your costs because one network carries all types of traffic. With W-ATM, you can build competitive offers using simultaneous carriage of voice, IP, data and/or video on the one interface through the use of different types of virtual circuits. Or you can reduce costs by operating multiple concurrent sessions of the same type on the one interface, to create meshed networks. One interface accesses multiple destinations.



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SERVICE FEATURES

You can combine your ATM access with other TelstraClear Wholesale products

Technical features:

- Standard access speeds on ATM are 2M, 34M, 155M and 622Mbit/s interfaces.
- Interfacing with G703/E3 Electrical and OC-3/OC-12 Optical.
- Nominal access speeds of 4, 6, 8, 12, 16Mbit/s are also offered. This provides a vast amount of scalability.
- Permanent virtual circuits and permanent virtual paths, are available at sustained information rates of 64k, 128k, 192k, 256k, 384k, 512k, 768k, 1024k, 1600k and 2M through to 152Mbps.
- The ATM classes of service supported are constant bit rate (CBR), variable bit rate-real time (VBR-RT) and variable bit rate-non real time (VBR-nRT).
- Network throughput reports are available upon request and are made available through a secure web page. Reports show hourly details and summaries and are posted weekly and monthly.

Access redundancy can be provided.

PROVISIONING

Provisioning of W-ATM access circuits is carried out within 15 business days for access circuits to ONNET locations .

SERVICE ASSURANCE

Service assurance is vital in a competitive data market and all of TelstraClear Wholesale's data services are covered under a comprehensive Service Level Agreement (SLA)

The primary point of contact for service issues is the TelstraClear Helpdesk. Through the helpdesk we provide:

- a 24x7 fault logging facility;
- investigation and management of faults through to resolution;
- updates on progress with fault resolution;
- escalation of unresolved faults

For critical impact faults the target response time is 20 minutes and target fault resolution time is 4 hours (ONNET sites Metro areas).

FOR FURTHER INFORMATION

Contact your TelstraClear Wholesale Account Manager.

