network tasman fibre

Technical Overview
Ethernet BR Service

52 Main Road, Hope 7020
PO Box 3005
Richmond7050
Nelson, New Zealand
Fax +64 3 989 3631
Email: info@networktasman.co.nz
Website: www.networktasman.co.nz

Notice

Table of Contents

1. Abstract

This document specifies Network Tasman Fibre Ethernet BR service.

2. Introduction

Network Tasman Fibre's Ethernet BR service is a symmetrical bandwidth layer two Ethernet service with a set low Committed Information Rate (CIR).

It is designed for Home Office Small Office (SOHO) customers and only available within selected areas.

3. Service Provider Requirements

The following requirements need to be met by the Service Provider at their required customer location for delivery of the Ethernet BR service.

3.1. Service Termination Point

The Service Provider is required to provide an appropriate location for the delivery of the Network Tasman Ethernet BR service. This should be free of any pollutants (dirt, dust etc.) and secure from general public access.

3.2. Power Requirements

The Network Tasman Fibre Ethernet BR service is delivered via an electrically powered Network Termination Unit (NTU) at the customer premise. It is the Service Provider's responsibility to ensure that a single phase 230V power source is available at the required location of the circuit termination.

3.3. Equipment Required

The Network Tasman Fibre Ethernet BR service is a layer two Ethernet service. The Service Provider will be required to supply equipment (router/switch) for this service to be terminated on to delivery layer three and above services for the circuit.

3.4. Patch Leads

The Network Tasman Fibre Ethernet BR service is delivered via an RJ45 electrical interface. It is the Service Providers responsibility to provide an appropriate patch cable to connect this interface to their network equipment.

4. Service Technical Specifications

4.1. Service Bandwidth Options

The Network Tasman Fibre Ethernet BR service is only available at symmetrical burst speed of 100Mbps.

4.2. Committed Information Rates

The Committed Information Rate of Network Tasman Fibre Ethernet BR services is set to 2.5Mbps. No upgrade options are available.

4.3. VLAN Tagging

Packets delivered at the termination point of a Network Tasman Fibre Ethernet BR service have the 802.1Q VLAN tag (SVID) applied at the Service Provider's SPA removed, however if the Service Provider has provided an additional tag (CVID) this will be passed through to the Service Provider's equipment on the customer's site.

4.4. Frame Type

The default EtherType supported on the Network Tasman Fibre network is 0x8100. On request and negotiation other frame types will be considered.

4.5. Frame Size

A maximum frame size of 2100 bytes will be supported.

4.6. Class of Service

To assist in the delivery of latency sensitive traffic such as Voice over Internet Protocol (VoIP) the Network Tasman Fibre network allows customers and Service Providers to mark packets as either high priority or low priority.

Egress packets from a Network Tasman Fibre Ethernet BR service with an 802.1P tag of 5 will be treated as high priority traffic. All other tags (0,1,2,3,4,6,7) or untagged packets will be treated as low priority.

PCP Tag	Priority
0	Low
1	Low
2	Low
3	Low
4	Low
5	High
6	Low
7	Low

It is the Service Provider's responsibility to ensure that the correct tags are assigned to appropriate packets

5. Specifications Summary Table

The following table summarises the technical specifications for a Network Tasman Fibre Ethernet BR service

Network Interface	RJ45
Standard Circuit Length	≤10km from NTF Central Office (CO). NTF reserves the right to review pricing if this distance is exceeded.
Bandwidth Options	100Mbps
Committed Information Rate	2.5Mbps
EtherType Default	0x8100
Maximum Frame Size	2100 Bytes

6. Service Level Agreement

Target Availability (24x7)	99.95%
Proactively Monitored	Yes
Service Desk Availability to Report Faults	24 x 7
Standard Hours of Restoration	8am to 5pm Monday to Friday excluding public and regional holidays.
Time to Respond	Less than 60 minutes
Target Restoration Times -Ethernet Faults -Fibre Infrastructure Faults	 Default Service Level <= 12 hours Enhanced Service Level <= 8 hours Default Service Level <= 48 hours Enhanced Service Level <= 24 hours