

## Regional Backbone Blackspots Program

**data** sheet

### RBBP Wavelength Services

Nextgen Group's RBBP Managed Wavelength services are dedicated transmission services ideally suited for carriers developing their own overlay transmission infrastructure.

#### RBBP Wavelength SDH

Nextgen Group's Wavelength SDH provides point to point SDH carriage at STM-16 and STM-64 rates with full overhead byte transparency to allow maximum visibility and control of the SDH payload.

#### RBBP Wavelength Ethernet

Nextgen Group's Wavelength Ethernet provides point to point Ethernet carriage at 1Gbit/s and 10Gbit/s with maximum layer-2 protocol transparency.

#### DWDM Network

Nextgen Group's Wavelength services are carried over our state-of-the-art DWDM networks, either as a dedicated optical signal, or time-division multiplexed within dedicated optical signals.

#### 24x7 Network Monitoring

Nextgen Group's **Service Management Centre** provides ongoing end-to-end monitoring around the clock for both the Nextgen Group and RBBP networks. All DWDM elements are actively monitored and our in-line fibre monitoring system can pinpoint fibre faults to within a couple of meters across the country.

Our technicians are on call to fix the faults any time of the day or night.

#### Site classifications and pricing zones

Prices are dependent on the type of delivery location and the particular RBBP Route.

Site types are:

- Carrier Point of Interconnect (CPol)
- Backbone Point of Interconnect (BPoI)
- Nearest Capital City (selected Data Centres)
- Sydney (selected Data Centres)



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#### Wholesale Only

Nextgen Group's RBBP Services are offered only to the wholesale market comprising:

- Licensed Carriers
- Carriage Service Providers
- Internet Service Providers
- Broadcast Transmission Providers
- Systems Integrators
- Utilities

Product	RBBP Wavelength SDH	RBBP Wavelength Ethernet
<b>Interface Rates</b>	STM-16: L16.1, L16.2 STM-64: I-64.1, S-64.2b	1000Mbit/s: 1000BASE-LX10 10Gbit/s: 10GBASE-LR
<b>Service Rates</b>	Line Rate	Line Rate
<b>Frame structures</b>	ITU-T G.707	Ethernet (IEEE 802.3-2005)
<b>Transparency</b>	Section Overhead(SOH) Regenerator Section Overhead (RSOH) Multiplex Section Overhead (MSOH) Path Overhead (POH)	All Frames up to 9000 Bytes (DA-FCS) Interface Configuration and Negotiation All IEEE reserved addresses tunneled
<b>Physical Media</b>	Single Mode Optical Fibre	Single Mode Optical Fibre
<b>Physical Interface</b>	SC Flat (presented as female)	SC Flat (presented as female)
<b>Core Protection</b>	Unprotected	Unprotected
<b>Access Protection</b>	Unprotected	Unprotected
<b>Latency</b>	Optical delay plus small mapping delay	Optical delay plus small mapping delay
<b>Bit Error Rate (End to End)</b>	< 10 <sup>-10</sup>	< 10 <sup>-10</sup>
<b>Target Availability</b>	Not Specified	Not Specified
<b>Target Restore Time</b>	8 hours	8 hours
<b>Dual Unprotected</b>	Where requested, Nextgen Group will endeavour to route a second unprotected service with as much geographical diversity from the first unprotected services as is supported on the Nextgen Group network. No additional Service Level Agreement is available with this option. Protection switching is the responsibility of the customer.	
<b>Commissioning standard</b>	ITU-T M.2101	IETF RFC 2544
<b>Customer to Provide</b>	Rack space, 240V AC 50Hz power and cross-connects at customer sites where required.	

RBBP Service Delivery Points	RBBP Network Segment – Nearest Capital City
<b>Services on RBBP networks can be purchased:</b> <ul style="list-style-type: none"> <li>- between locations on a particular RBBP Network Segment</li> <li>- to selected data centres in the nearest capital city</li> <li>- to selected data centres in Sydney</li> </ul>	Gerraldton – Perth
	Darwin – Brisbane or Adelaide
	Broken Hill – Adelaide or Melbourne
	Victor Harbor – Adelaide
	South West Gippsland – Melbourne