



KCOM wholesale

**KCOM Optical
Wave Access Service (OWAS)**

Optical Wave Access Service (OWAS)

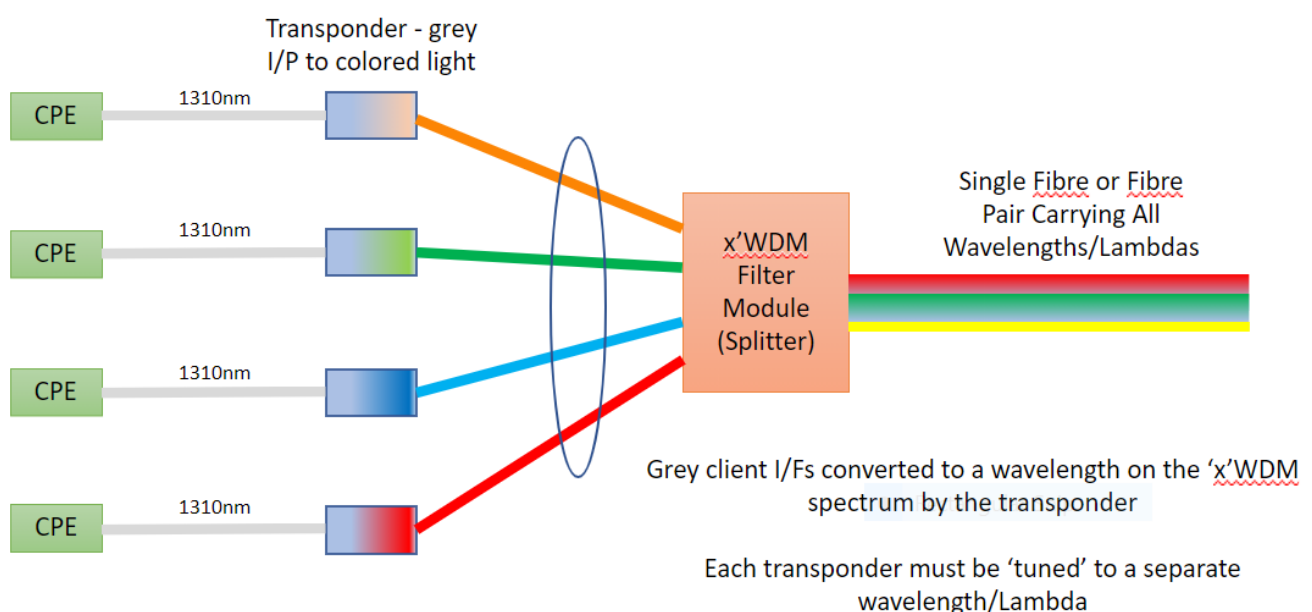
OWAS is a flexible, cost-effective way to move very large amounts of data between two sites as a secure, always-on connection. The Service supports both fixed and mobile network infrastructure deployments, including those mobile deployments specifically requiring ADVA access interface equipment. It can therefore be used by you as a high capacity connectivity input into your access networks, or as a high capacity terminating segment to your customers.

With timing capability through Sync-E it is particularly suited to mobile applications.

OWAS uses wavelength division multiplexing (WDM) to send multiple signals along an optical bearer. Multiplexing gives each optical signal its own wavelength then combines these signals to send them to their destination at the same time. Networking equipment separates out these wavelengths (de-multiplexing) before processing the data. These different wavelengths can support different protocols and carry different data.

On this service, KCOM manage at least one wavelength constituting a 10Gbps path. Direct access to the optical path enables a CP to connect Dense Wavelength Division Multiplexing (DWDM) equipment using the spare filter ports. KCOM look after the fibre and manage the wavelengths, whilst you develop your own services over the spare channels. The service provides Single Fibre Working (SFW) using a 16 channel optical filter (optical splitter).

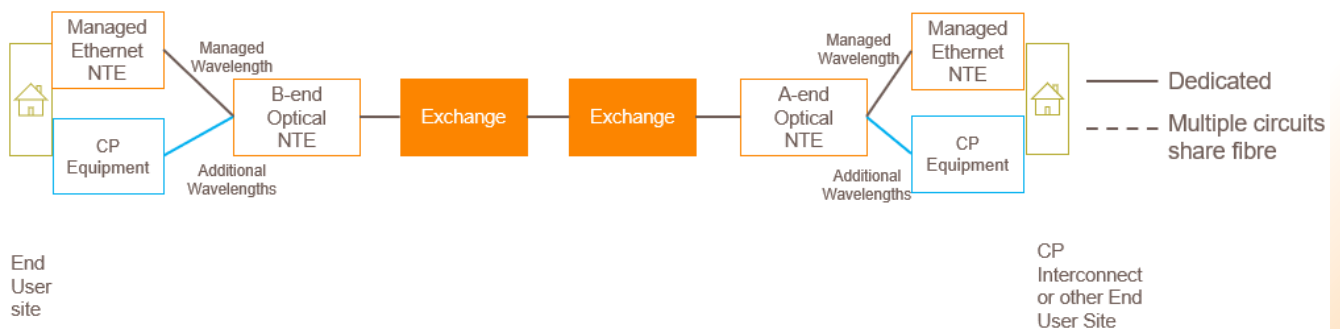
WDM – Wave Division Multiplexing



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There are two transport media:

- > One or two dedicated 10Gbps circuits using the current network termination equipment (Adva XG210); if further 10 Gbps circuits are required from KCOM, additional network termination equipment (currently Adva XG210 pairs) will be required. There is a limit of six 10Gbps circuits provided in this manner;
- > Direct access to the WDM capability by utilizing the remaining wavelength ports on the Adva FSP3000 16 CSM.



Full technical information is available in:

[CIP042 Wholesale Optical Wave Access Service and Technical Description](#)



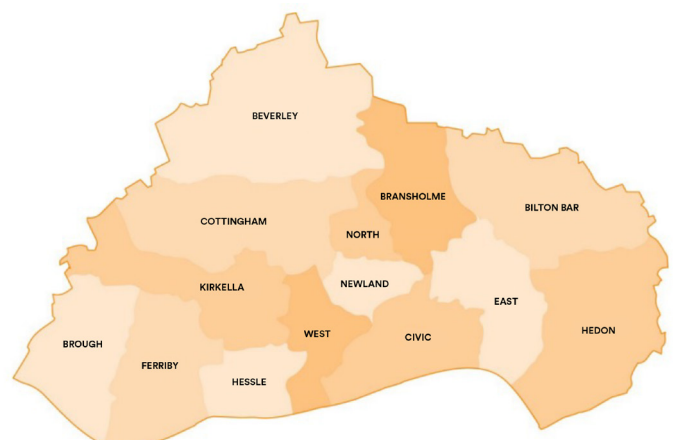
The OWAS equipment has one chassis type :

- > Power : Dual DC or Dual AC
- > 1U chassis with two available service slots for managed wavelength cards only

Geographic Reach

OWAS is only available within the Hull Area but may be combined with interconnect products to interface with networks outside the Hull Area.

The Hull Area is defined as the 'Licensed Area' in the licence granted on November 1987 by the Secretary of State under section 7 of the Telecommunications Act 1984 to Kingston upon Hull City Council and its' successor telecommunication operators. Map 1 illustrates the exchanges within the licensed area.



The Optical Wave Access Service including filter is only available in a point to point configuration to connect:

- a > CP Site to End User Site
- b > CP Site to CP Site
- c > End User Site to End User Site

Bandwidth Options:

	Standard	Enhanced	Options
Managed Service	10gbps	2 × 10Gbps	Up to 4 Incremental 10Gbps
Wavelengths	14 Wavelengths		Up to 10 Wavelengths

Key features

Managed Services and option for direct wavelength consumption	
Suitable for high data applications with assured uptime	
Sync – E compatible	
Pro-active compensation for breach of service level guarantees	
Equipment provided	Adva network termination equipment
KCOM Technical Support Team	Second line support on 0800 7022000
Proposed Start Date	To be confirmed on Order for Services Standard installation lead time 75 working days
Support	24/7/365
Repair Time	Within 5 clock hours of report
Service Level Guarantees	Documented compensation scheme for breach
Resilience	Optional

Contractual documentation: [Reference Offer for Leased Line and Ethernet Services](#)

Technical Information: [KCL CIP042 OWAS \(kcom.com\)](#)

Tariffs: [Optical Wave Access Service](#)

For further information please contact our sales team at wholesalesales@kcom.com