

**BT Wholesale Catalogue**

**BT Wholesale Catalogue**  
**Current Cost Financial Statements 2008**

# BT Wholesale Catalogue

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## BT Wholesale Catalogue

<b>Service:</b> <i>Wholesale residential analogue internal service connections</i>
<b>Market:</b> <i>Wholesale residential analogue exchange line services</i>
<b>Market review:</b> <i>Fixed narrowband wholesale exchange line, call origination, conveyance &amp; transit.</i>
<b>Service Offering:</b>  <i>Connection of narrowband residential ordinary and Featureline exchange line(s) within defined service parameters.</i>  <i>Includes:</i>  <i>a) All direct engineering activity and commissioning to complete connection to the customer premises, including line testing, from the Local Exchange concentrator;</i> <i>b) Engineering and network support activity;</i> <i>c) Sales General &amp; Administration.</i>
<b>Customer(s):</b> <i>BT Retail</i>
<b>Price list entry:</b> <a href="http://www.openreach.co.uk/orpg/pricing/wlrprices.do">http://www.openreach.co.uk/orpg/pricing/wlrprices.do</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Wholesale residential analogue internal service rentals</i>
<b>Market:</b> <i>Wholesale residential analogue exchange line services</i>
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<b>Service Offering:</b>  <i>Rental, repair and maintenance of narrowband residential ordinary and Featureline exchange line(s) within defined service parameters.</i>  <i>Includes:</i>  <ul style="list-style-type: none"><li><i>a) All direct engineering activity to complete maintenance to the customer premises from the local exchange concentrator</i></li><li><i>b) Engineering and network support activity</i></li><li><i>c) Reactive &amp; preventative maintenance including line testing &amp; fault handling</i></li><li><i>d) Sales, General &amp; Administration</i></li><li><i>e) Usage of capital equipment required to make the physical connection from the customers premises to the local exchange concentrator (NTE, dropwire, D-side and E-side cabling, main distribution frame and line card)</i></li></ul>
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## BT Wholesale Catalogue

<b>Service:</b> <i>Wholesale business analogue internal service takeovers</i>
<b>Market:</b> <i>Wholesale business analogue exchange line services</i>
<b>Market review:</b> <i>Fixed narrowband wholesale exchange line, call origination, conveyance &amp; transit.</i>
<b>Service Offering:</b>  <i>Takeover of previously stopped exchange lines.</i>  <i>Includes:</i>  <i>a) Instances of where Service Providers (SP's) request a new provision but BT can start a previously stopped line.</i>
<b>Customer(s):</b> <i>BT Retail</i>
<b>Price list entry:</b> <a href="http://www.openreach.co.uk/orpg/pricing/wlrprices.do">http://www.openreach.co.uk/orpg/pricing/wlrprices.do</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Wholesale business analogue external service rentals</i>
<b>Market:</b> <i>Wholesale business analogue exchange line services</i>
<b>Market review:</b> <i>Fixed narrowband wholesale exchange line, call origination, conveyance &amp; transit.</i>
<b>Service Offering:</b>  <i>Rental, repair and maintenance of narrowband business ordinary and Featureline exchange line(s) within defined service parameters.</i>  <i>Includes:</i>  <i>a) All direct engineering activity to complete maintenance to the customer premises from the Local Exchange concentrator</i> <i>b) Engineering and network support activity</i> <i>c) Reactive &amp; preventative maintenance including line testing &amp; fault handling</i> <i>d) Sales, General &amp; Administration</i>
<b>Customer(s):</b> <i>Service Providers</i>
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<b>Service:</b> <i>Wholesale business analogue external service connections</i>
<b>Market:</b> <i>Wholesale business analogue exchange line services</i>
<b>Market review:</b> <i>Fixed narrowband wholesale exchange line, call origination, conveyance &amp; transit.</i>
<b>Service Offering:</b>  <i>Connection of narrowband Business ordinary and Featureline exchange line(s) within defined service parameters.</i>  <i>Includes:</i>  <ul style="list-style-type: none"><li><i>a) All direct engineering activity and commissioning to complete connection to the customer premises from the Local Exchange concentrator</i></li><li><i>b) Engineering and network support activity</i></li><li><i>c) Order handling and progression</i></li><li><i>d) Sales, General &amp; Administration</i></li></ul>
<b>Customer(s):</b> <i>Service Providers</i>
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## BT Wholesale Catalogue

<b>Service:</b> <i>Wholesale business analogue external service transfers</i>
<b>Market:</b> <i>Wholesale business analogue exchange line services</i>
<b>Market review:</b> <i>Fixed narrowband wholesale exchange line, call origination, conveyance &amp; transit.</i>
<b>Service Offering:</b>  <i>Transfer between Service Providers of a business analogue exchange line(s) service within defined service parameters.</i>  <i>Includes:</i>  <i>a) All direct engineering activity to complete transfer of the line from Service Providers (SP) to SP.</i> <i>b) Engineering and network support activity</i> <i>c) Sales, General &amp; Administration</i>
<b>Customer(s):</b> <i>Service Providers</i>
<b>Price list entry:</b> <a href="http://www.openreach.co.uk/orpg/pricing/wlrprices.do">http://www.openreach.co.uk/orpg/pricing/wlrprices.do</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Wholesale business ISDN2 internal service connections</i>
<b>Market:</b> <i>Wholesale business ISDN2 exchange line services</i>
<b>Market review:</b> <i>Fixed narrowband wholesale exchange line, call origination, conveyance &amp; transit.</i>
<b>Service Offering:</b>  <i>Connection of ISDN2 business exchange line(s) within defined service parameters. ISDN2 is a digital service that transforms the existing phone line by splitting its capacity into 2 channels allowing dual access.</i>  <i>Includes:</i>  <i>a) All direct engineering activity and commissioning to complete connection to the customer premises, including line testing, from the Local Exchange concentrator</i> <i>b) Engineering and network support activity</i> <i>c) Sales, General &amp; Administration</i>
<b>Customer(s):</b> <i>BT Retail</i>
<b>Price list entry:</b> <a href="http://www.openreach.co.uk/orpg/pricing/wlrprices.do">http://www.openreach.co.uk/orpg/pricing/wlrprices.do</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Wholesale business ISDN2 internal service rentals</i>
<b>Market:</b> <i>Wholesale business ISDN2 exchange line services</i>
<b>Market review:</b> <i>Fixed narrowband wholesale exchange line, call origination, conveyance &amp; transit.</i>
<b>Service Offering:</b>  <i>Rental, repair and maintenance of ISDN2 business exchange line(s) within defined service parameters. ISDN2 is a digital service that transforms the existing phone line by splitting its capacity into 2 channels allowing dual access.</i>  <i>Includes:</i> <ul style="list-style-type: none"><li><i>a) All direct engineering activity to complete maintenance to the customer premises from the Local Exchange concentrator</i></li><li><i>b) Engineering and network support activity</i></li><li><i>c) Reactive &amp; preventative maintenance including line testing &amp; fault handling</i></li><li><i>d) Sales, General &amp; Administration</i></li><li><i>e) Usage of capital equipment required to make the physical connection from the customers premises to the local exchange concentrator (NTE, dropwire, D-side and E-side cabling, main distribution frame and line card)</i></li></ul>
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<b>Service:</b> <i>Wholesale business ISDN2 internal service takeovers</i>
<b>Market:</b> <i>Wholesale business ISDN2 exchange line services</i>
<b>Market review:</b> <i>Fixed narrowband wholesale exchange line, call origination, conveyance &amp; transit.</i>
<b>Service Offering:</b>  <i>Takeover of previously stopped exchange lines.</i>  <i>Includes:</i>  <i>a) Instances of where SP's request a new provision but BT can start a previously stopped line.</i>
<b>Customer(s):</b> <i>BT Retail</i>
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## BT Wholesale Catalogue

<b>Service:</b> <i>Wholesale business ISDN2 external service connections</i>
<b>Market:</b> <i>Wholesale business ISDN2 exchange line services</i>
<b>Market review:</b> <i>Fixed narrowband wholesale exchange line, call origination, conveyance &amp; transit.</i>
<b>Service Offering:</b>  <i>Connection of ISDN2 business exchange line(s) within defined service parameters. ISDN2 is a digital service that transforms the existing phone line by splitting its capacity into 2 channels allowing dual access.</i>  <i>Includes:</i>  <ul style="list-style-type: none"><li><i>a) All direct engineering activity and commissioning to complete connection to the customer premises from the Local Exchange concentrator</i></li><li><i>b) Engineering and network support activity</i></li><li><i>c) Order handling and progression</i></li><li><i>d) Sales, General &amp; Administration</i></li></ul>
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<b>Service:</b> <i>Wholesale business ISDN2 external service rentals</i>
<b>Market:</b> <i>Wholesale business ISDN2 exchange line services</i>
<b>Market review:</b> <i>Fixed narrowband wholesale exchange line, call origination, conveyance &amp; transit.</i>
<b>Service Offering:</b>  <i>Rental, repair and maintenance of ISDN2 business exchange line(s) within defined service parameters. ISDN2 is a digital service that transforms the existing phone line by splitting its capacity into 2 channels allowing dual access.</i>  <i>Includes:</i>  <i>a) All direct engineering activity to complete maintenance to the customer premises from the Local Exchange concentrator</i> <i>b) Engineering and network support activity</i> <i>c) Reactive &amp; preventative maintenance including line testing &amp; fault handling</i> <i>d) Sales, General &amp; Administration</i>
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## BT Wholesale Catalogue

<b>Service:</b> <i>Wholesale business ISDN2 external service transfers</i>
<b>Market:</b> <i>Wholesale business ISDN2 exchange line services</i>
<b>Market review:</b> <i>Fixed narrowband wholesale exchange line, call origination, conveyance &amp; transit.</i>
<b>Service Offering:</b>  <i>Transfer between Service Providers (SP) of an ISDN2 business exchange line(s) within defined service parameters. ISDN2 is a digital service that transforms the existing phone line by splitting its capacity into 2 channels allowing dual access.</i>  <i>Includes:</i>  <i>a) All direct engineering activity to complete transfer of the line(s) from SP to SP</i> <i>b) Engineering and network support activity</i> <i>c) Sales, General &amp; Administration</i>
<b>Customer(s):</b> <i>Service Providers</i>
<b>Price list entry:</b> <a href="http://www.openreach.co.uk/orpg/pricing/wlrprices.do">http://www.openreach.co.uk/orpg/pricing/wlrprices.do</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Wholesale call originating local exchange segment PSTN and ISDN (excl Operator Assistance)</i>
<b>Market:</b> <i>Call origination on fixed public narrowband networks</i>
<b>Market review:</b> <i>Fixed narrowband wholesale exchange line, call origination, conveyance &amp; transit.</i>
<b>Service Offering:</b>  <i>Call duration for a call originating on a BT exchange line to the Local Exchange switch based on a pence per minute cost.</i>  <i>Includes call set – up (establishing a network end to end path) and call duration (holding the path open for the time the link is open) and utilises the following elements; Concentrator, Local Exchange switching, Remote to Local Transmission Link &amp; Length.</i>  <i>Also includes :</i>  <i>a) Engineering and network support activity.</i> <i>b) Reactive and preventative maintenance including testing and fault handling.</i> <i>c) Billing Systems</i>
<b>Customer(s):</b> <i>BT Retail and Other Communication Providers</i>
<b>Price list entry:</b> <i>Note prices depend on the actual product e.g., Indirect Access, Local calls etc. Relevant sections of the Wholesale Carrier Price list are:</i>  <i>Section B1 - Telephony</i> <i>Section B3 - Ancillary Service</i> <i>Section C5.2 – Call Origination Basket</i> <i>(<a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>)</i>

## BT Wholesale Catalogue

<b>Service:</b> <i>Wholesale call originating local exchange segment (incl Operator Assistance)</i>
<b>Market:</b> <i>Call origination on fixed public narrowband networks</i>
<b>Market review:</b> <i>Fixed narrowband wholesale exchange line, call origination, conveyance &amp; transit.</i>
<b>Service Offering:</b>  <i>Call duration for a call originating on a BT exchange line to the Local Exchange switch based on a pence per minute cost.</i>  <i>Includes call set – up (establishing a network end to end path) and call duration (holding the path open for the time the link is open) and utilises the following elements; Concentrator, Local Exchange switching, Remote to Local Transmission Link &amp; Length.</i>  <i>Also includes :</i>  <i>a) Operator assistance and 999 calls.</i> <i>b) Engineering and network support activity.</i> <i>c) Reactive and preventative maintenance including testing and fault handling.</i> <i>d) Billing systems.</i>
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## BT Wholesale Catalogue

<b>Service:</b> <i>Wholesale call originating local exchange segment (ISDN) (incl Operator Assistance)</i>
<b>Market:</b> <i>Call origination on fixed public narrowband networks</i>
<b>Market review:</b> <i>Fixed narrowband wholesale exchange line, call origination, conveyance &amp; transit.</i>
<b>Service Offering:</b>  <i>Call duration for a call using ISDN (Integrated Service Digital Network) originating on a BT exchange line to the Local Exchange switch based on a pence per minute cost.</i>  <i>Includes call set – up (establishing a network end to end path) and call duration (holding the path open for the time the link is open) and utilises the following elements; Concentrator, Local Exchange switching, Remote to Local Transmission Link &amp; Length.</i>  <i>Also includes :</i>  <i>a) Operator assistance and 999 calls.</i> <i>b) Engineering and network support activity.</i> <i>c) Reactive and preventative maintenance including testing and fault handling.</i> <i>d) Billing systems.</i>
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<b>Service:</b> <i>Wholesale call origination local exchange stick</i>
<b>Market:</b> <i>Call origination on fixed public narrowband networks</i>
<b>Market review:</b> <i>Fixed narrowband wholesale exchange line, call origination, conveyance &amp; transit.</i>
<b>Service Offering:</b>  <i>Call Duration for a call originating from a Local Exchange and conveying it to another Local Exchange based on a pence per minute cost. Is applicable only for BT to BT calls.</i> <i>Utilises the Remote Concentrator to Local Exchange Transmission Link and Length components.</i>  <i>Also includes :</i>  <i>a) Engineering and network support activity.</i> <i>b) Reactive and preventative maintenance including testing and fault handling.</i> <i>c) Sales, General &amp; Admin.</i>
<b>Customer(s):</b> <i>BT Retail</i>
<b>Price list entry:</b> <i>Note prices depend on the actual product e.g, Indirect Access, Local calls etc. Relevant sections of the Wholesale Carrier Price list are:</i>  <i>Section B1 - Telephony</i> <i>Section B3 - Ancillary Service</i> <i>Section C5.2 – Call Origination Basket</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Wholesale call origination local exchange stick (ISDN)</i>
<b>Market:</b> <i>Call origination on fixed public narrowband networks</i>
<b>Market review:</b> <i>Fixed narrowband wholesale exchange line, call origination, conveyance &amp; transit.</i>
<b>Service Offering:</b>  <i>Call Duration for an ISDN (Integrated Service Digital Network) call originating from a Local Exchange and conveying it to another Local Exchange based on a pence per minute cost. This is applicable only for BT to BT calls.</i>  <i>Utilises the Remote Concentrator to Local Exchange Transmission Link and Length components.</i>  <i>Also includes :</i>  <i>a) Engineering and network support activity.</i> <i>b) Reactive and preventative maintenance including testing and fault handling.</i> <i>c) Sales, General &amp; Admin.</i>
<b>Customer(s):</b> <i>BT Retail</i>
<b>Price list entry:</b> <i>Note prices depend on the actual product e.g. Indirect Access, Local calls etc. Relevant sections of the Wholesale Carrier Price list are:</i>  <i>Section B1 - Telephony</i> <i>Section B3 - Ancillary Service</i> <i>Section C5.2 – Call Origination Basket</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Wholesale PPP</i>
<b>Market:</b> <i>Call origination on fixed public narrowband networks</i>
<b>Market review:</b> <i>Fixed narrowband wholesale exchange line, call origination, conveyance &amp; transit.</i>
<b>Service Offering:</b>  <i>Wholesale PPP represents the pence per minute charge levied on all applicable calls over the BT network. It is the mechanism by which BT recovers its PPP costs for supporting Interconnect calls.</i> <ul style="list-style-type: none"><li>• <i>This service is the Product Management, Policy and Planning (PPP) activities that comprise the costs incurred by BT in servicing and supporting the interconnect calls.</i></li></ul> <i>Also includes :</i> <ul style="list-style-type: none"><li>a) <i>Pay costs for staff supporting interconnect calls.</i></li><li>b) <i>Attributable Sales, General &amp; Admin costs to support these staff.</i></li></ul>
<b>Customer(s):</b> <i>BT Retail and Other Communication Providers</i>
<b>Price list entry:</b> <i>Section C5.2 (included in call costs)</i> ( <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a> )

## BT Wholesale Catalogue

<b>Service:</b> <i>Wholesale local-tandem conveyance segment</i>
<b>Market:</b> <i>Local-tandem conveyance and transit on fixed public narrowband networks</i>
<b>Market review:</b> <i>Fixed narrowband wholesale exchange line, call origination, conveyance &amp; transit.</i>
<b>Service Offering:</b>  <i>Call Duration for a call originating at a Local Exchange and conveying it to Tandem Exchange or vice versa.</i>  <i>Includes Call Set-Up between the switching units (establishing a network end to end path) and call Duration (holding the path open for the time the link is open). Utilises the Local to Tandem Exchange Transmission Link and Length and Tandem Exchange Switching components.</i>  <i>May utilise a second Local Exchange in place of Tandem Exchange where the Local Exchange is acting as a Tandem Exchange in the network.</i>  <i>Also includes :</i>  <i>a) Engineering and network support activity.</i> <i>b) Reactive and preventative maintenance including testing and fault handling.</i> <i>c) Billing systems.</i>
<b>Customer(s):</b> <i>BT Retail and Other Communication Providers</i>
<b>Price list entry:</b> <i>Note prices depend on the actual product e.g., Indirect Access, Local calls etc. Relevant sections of the Wholesale Carrier Price list are:</i>  <i>Section B1 - Telephony</i> <i>Section C1.4 – Local Tandem Conveyance</i> <i>(<a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>)</i>

## BT Wholesale Catalogue

<b>Service:</b> <i>Wholesale local-tandem conveyance segment (ISDN)</i>
<b>Market:</b> <i>Local-tandem conveyance and transit on fixed public narrowband networks</i>
<b>Market review:</b> <i>Fixed narrowband wholesale exchange line, call origination, conveyance &amp; transit.</i>
<b>Service Offering:</b>  <i>Call Duration for an ISDN (Integrated Services Digital Network) call originating at a Local Exchange and conveying it to Tandem Exchange or vice versa .</i>  <i>Includes Call Set-Up between the switching units (establishing a network end to end path) and call Duration (holding the path open for the time the link is open). Utilises the Local to Tandem Exchange Transmission Link and Length and Tandem Exchange Switching components.</i>  <i>May utilise a second Local Exchange in place of Tandem Exchange where the Local Exchange is acting as a Tandem Exchange in the network.</i>  <i>Also includes :</i>  <i>a) Engineering and network support activity.</i> <i>b) Reactive and preventative maintenance including testing and fault handling.</i> <i>c) Billing systems.</i>
<b>Customer(s):</b> <i>BT Retail and Other Communication Providers</i>
<b>Price list entry:</b> <i>Note prices depend on the actual product e.g., Indirect Access, Local calls etc. Relevant sections of the Wholesale Carrier Price list are:</i>  <i>Section B1 - Telephony</i> <i>Section C1.4 – Local Tandem Conveyance</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Wholesale local-tandem transmission stick</i>
<b>Market:</b> <i>Local-tandem conveyance and transit on fixed public narrowband networks</i>
<b>Market review:</b> <i>Fixed narrowband wholesale exchange line, call origination, conveyance &amp; transit.</i>
<b>Service Offering:</b>  <i>Call Duration for a call originating from a Local Exchange and conveying it to another Local Exchange .</i>  <i>Is applicable only for BT to BT calls.</i>  <i>Utilises the Local Exchange to Trunk Exchange Transmission Link and Length components.</i>  <i>Also includes :</i>  <i>a) Engineering and network support activity.</i> <i>b) Reactive and preventative maintenance including testing and fault handling.</i> <i>c) Sales, General &amp; Admin.</i>
<b>Customer(s):</b> <i>BT Retail</i>
<b>Price list entry:</b> <i>Note prices depend on the actual product e.g. Indirect Access, Local calls etc. Relevant sections of the Wholesale Carrier Price list are:</i>  <i>Section B1 - Telephony</i> <i>Section C1.4 – Local Tandem Conveyance</i> <a href="http://www.btwholesale.com/pricing">(<a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>)</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Wholesale local-tandem transmission stick (ISDN)</i>
<b>Market:</b> <i>Local-tandem conveyance and transit on fixed public narrowband networks</i>
<b>Market review:</b> <i>Fixed narrowband wholesale exchange line, call origination, conveyance &amp; transit.</i>
<b>Service Offering:</b>  <i>Call Duration for an ISDN (Integrated Service Digital Network) call originating from a Local Exchange and conveying it to another Local Exchange .</i>  <i>Is applicable only for BT to BT calls.</i>  <i>Utilises the Local Exchange to Trunk Exchange Transmission Link and Length components.</i>  <i>Also includes :</i>  <i>a) Engineering and network support activity.</i> <i>b) Reactive and preventative maintenance including testing and fault handling.</i> <i>c) Sales, General &amp; Admin.</i>
<b>Customer(s):</b> <i>BT Retail</i>
<b>Price list entry:</b> <i>Note prices depend on the actual product e.g. Indirect Access, Local calls etc. Relevant sections of the Wholesale Carrier Price list are:</i>  <i>Section B1 - Telephony</i> <i>Section C1.4 – Local Tandem Conveyance</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Wholesale single transit segment (PSTN &amp; ISDN)</i>
<b>Market:</b> <i>Single transit on fixed public narrowband networks</i>
<b>Market review:</b> <i>Fixed narrowband wholesale exchange line, call origination, conveyance &amp; transit.</i>
<b>Service Offering:</b>  <i>Call Duration for a call originating from another Operator connected at a Tandem Exchange and conveying it to another Operator connected at the same Tandem Exchange .</i>  <i>Utilises the Tandem Exchange Switching component.</i>  <i>Also includes :</i>  <ul style="list-style-type: none"><li><i>a) Engineering and network support activity.</i></li><li><i>b) Reactive and preventative maintenance including testing and fault handling.</i></li><li><i>c) Billing systems.</i></li></ul>
<b>Customer(s):</b> <i>BT Retail and Other Communication Providers</i>
<b>Price list entry:</b> <i>Note prices depend on the actual product e.g. Indirect Access, Local calls etc. Relevant sections of the Wholesale Carrier Price list are:</i>  <i>Section B1.12 - Telephony</i> <i>Section C2.1 – Single Transit</i> <a href="http://www.btwholesale.com/pricing">(<a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>)</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Wholesale standard CSI connection</i>
<b>Market:</b> <i>Technical areas (Interconnect Circuits)</i>
<b>Market review:</b> <i>Fixed narrowband wholesale exchange line, call origination, conveyance &amp; transit.</i>
<b>Service Offering:</b>  <i>Provision of a Customer-Sited Interconnect (CSI) circuit – a 2 MB PSTN connection from BT's exchange to the customer's premises.</i>  <u><i>Includes:</i></u>  <i>a) All direct engineering activity and commissioning to complete the connection</i>  <u><i>Supplementary Services:</i></u>  <i>To fulfil service connectivity, the following services are also required in conjunction with a CSI connection:</i>  <i>a) CSI Rental (fixed) - Non-distance rental of a CSI circuit</i> <i>b) CSI rental per km - Distance-related rental of a CSI circuit</i> <i>c) IBC Connection - Provision of an Intra-building circuit</i> <i>d) IBC Rental - Rental of an Intra-building circuit</i>
<b>Customer(s):</b> <i>BT Retail and Other Communication Providers</i>
<b>Price list entry:</b> <i>Section B2.01</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Wholesale standard CSI rental - fixed</i>
<b>Market:</b> <i>Technical areas (Interconnect Circuits)</i>
<b>Market review:</b> <i>Fixed narrowband wholesale exchange line, call origination, conveyance &amp; transit.</i>
<b>Service Offering:</b>  <i>Non distance-related rental element of the inter-BT exchange part of a CSI circuit.</i>  <u><i>Includes:</i></u>  <i>a) A Local end – the access line (fibre/ copper/ radio and electronics)</i> <i>b) Transmission equipment at either end of the circuit</i> <i>c) Engineering and network support activity</i> <i>d) Reactive &amp; preventative maintenance including line testing &amp; fault handling</i>  <u><i>Supplementary Services:</i></u>  <i>To fulfil service connectivity, the following services are also required in conjunction with the Non distance-related rental of a CSI circuit:</i>  <i>a) CSI Connection - Provision of a CSI circuit</i> <i>b) CSI rental per km - Distance-related rental of a CSI circuit</i> <i>c) IBC Connection - Provision of an Intra-building circuit</i> <i>d) IBC Rental – Rental of an Intra-building circuit</i>
<b>Customer(s):</b> <i>BT Retail and Other Communication Providers</i>
<b>Price list entry:</b> <i>Section B2.01</i> <a href="http://www.btwholesale.com/pricing">(<a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>)</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Wholesale standard CSI rental per km</i>
<b>Market:</b> <i>Technical areas (Interconnect Circuits)</i>
<b>Market review:</b> <i>Fixed narrowband wholesale exchange line, call origination, conveyance &amp; transit.</i>
<b>Service Offering:</b>  <i>Distance-related rental element of the inter-BT exchange part of a CSI circuit.</i>  <u><i>Includes:</i></u>  <i>a) Fibre, Duct and intermediate Transmission equipment (where circuits travel through more than one exchange)</i> <i>b) Reactive &amp; preventative maintenance including line testing &amp; fault handling</i> <i>c) Engineering and network support activity</i>  <u><i>Supplementary Services:</i></u>  <i>To fulfil service connectivity, the following services are also required in conjunction with the distance-related rental of a CSI circuit:</i>  <i>a) CSI Connection - Provision of a CSI circuit</i> <i>b) CSI Rental (fixed) - Non distance-related rental of a CSI circuit</i> <i>c) IBC Connection - Provision of an Intra-building circuit</i> <i>d) IBC Rental – Rental of an Intra-building circuit</i>
<b>Customer(s):</b> <i>BT Retail and Other Communication Providers</i>
<b>Price list entry:</b> <i>Section B2.01</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Wholesale ISI rental</i>
<b>Market:</b> <i>Technical areas (Interconnect Circuits)</i>
<b>Market review:</b> <i>Fixed narrowband wholesale exchange line, call origination, conveyance &amp; transit.</i>
<b>Service Offering:</b>  <i>Rental of a circuit connecting BT's exchange to the customer's Point of connection (located in a junction box in excess of 100m of the serving exchange). Provision of an In-Span Interconnect circuit – a 2Mbit PSTN link from BT's Switch to the customer's Point of Connection (located in a junction box within 100m of the serving exchange).</i>  <b><u>Includes:</u></b>  <i>a) Fibre and Duct . b) Reactive &amp; preventative maintenance including line testing &amp; fault handling c) Engineering and network support activity d) All direct engineering activity and commissioning to complete the connection</i>  <b><u>Supplementary Services:</u></b>  <i>To fulfil service connectivity, the following services are required in conjunction with the rental of an ISI circuit:</i>  <i>a) ISI Connection - Provision of an In-Span Interconnect circuit b) IBC Connection - Provision of an Intra-building circuit c) IBC Rental - Rental of an Intra-building circuit</i>  <i>Also, where interconnect is required beyond the adjacent exchange:</i>  <i>a) IEC Connection – Provision of an Interconnect Extension circuit b) IEC (fixed) Rental – Non distance-related rental of an Interconnect Extension circuit c) IEC Rental per km – Distance-related rental of an Interconnect Extension circuit</i>
<b>Customer(s):</b> <i>Other Communication Providers</i>
<b>Price list entry:</b> <i>Section B2.02</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Wholesale IEC connection</i>
<b>Market:</b> <i>Technical areas (Interconnect Circuits)</i>
<b>Market review:</b> <i>Fixed narrowband wholesale exchange line, call origination, conveyance &amp; transit.</i>
<b>Service Offering:</b>  <i>Provision of an Interconnect Extension circuit – a 2Mbit connection used to extend an ISI circuit between the Multiplexor in a Remote Switch Connection and the Multiplexor terminating the ISI Interconnect Link .</i>  <u><i>Includes:</i></u>  <i>a) All direct engineering activity and commissioning to complete the connection</i>  <u><i>Supplementary Services:</i></u>  <i>To fulfil service connectivity, the following services are required in conjunction with an IEC connection:</i>  <i>a) IEC (fixed) Rental – Non distance-related rental of an Interconnect Extension circuit</i> <i>b) IEC Rental per km – Distance-related rental of an Interconnect Extension circuit</i> <i>c) ISI Connection - Provision of an In-Span Interconnect circuit</i> <i>d) ISI Rental - Rental of an In-Span Interconnect circuit</i> <i>e) IBC Connection - Provision of an Intra-building circuit</i> <i>f) IBC Rental - Rental of an Intra-building circuit</i>
<b>Customer(s):</b> <i>Other Communication Providers</i>
<b>Price list entry:</b> <i>Section B2.02</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Wholesale IEC rentals</i>
<b>Market:</b> <i>Technical areas (Interconnect Circuits)</i>
<b>Market review:</b> <i>Fixed narrowband wholesale exchange line, call origination, conveyance &amp; transit.</i>
<b>Service Offering:</b>  <i>Non distance related rental of a 2Mbit link used to extend an ISI circuit between the Multiplexor in a Remote Switch Connection and the Multiplexor terminating the ISI Interconnect Link</i>  <b>Includes:</b>  <i>a) Transmission equipment at either end of the IEC circuit b) Reactive &amp; preventative maintenance including line testing &amp; fault handling c) Engineering and network support activity</i>  <b><u>Supplementary Services:</u></b>  <i>To fulfil service connectivity, the following services are required in conjunction with the non distance-related rental of an IEC circuit:</i>  <i>a) IEC Connection – Provision of an Interconnect Extension circuit b) IEC Rental per km – Distance-related rental of an Interconnect Extension circuit c) ISI Connection - Provision of an In-Span Interconnect circuit d) ISI Rental - Rental of an In-Span Interconnect circuit e) IBC Connection - Provision of an Intra-building circuit f) IBC Rental - Rental of an Intra-building circuit</i>
<b>Customer(s):</b> <i>Other Communication Providers</i>
<b>Price list entry:</b> <i>Section B2.02</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Wholesale IEC rental – per km</i>
<b>Market:</b> <i>Technical areas (Interconnect Circuits)</i>
<b>Market review:</b> <i>Fixed narrowband wholesale exchange line, call origination, conveyance &amp; transit.</i>
<b>Service Offering:</b>  <i>Distance-related rental (charged per km) of a 2Mbit link used to extend an ISI circuit between the Multiplexor in a Remote Switch Connection and the Multiplexor terminating the ISI Interconnect Link</i>  <b>Includes:</b>  <i>a) Fibre, Duct and intermediate Transmission equipment (where the circuit cross more than one exchange)</i> <i>b) Reactive &amp; preventative maintenance including line testing &amp; fault handling</i> <i>c) Engineering and network support activity</i>  <b>Supplementary Services:</b>  <i>To fulfil service connectivity, the following services are required in conjunction with the distance-related rental of an IEC circuit:</i>  <i>a) IEC Connection – Provision of an Interconnect Extension circuit</i> <i>b) IEC (fixed) Rental – Non distance-related rental of an Interconnect Extension circuit</i> <i>c) ISI Connection - Provision of an In-Span Interconnect circuit</i> <i>d) ISI Rental - Rental of an In-Span Interconnect circuit</i> <i>e) IBC Connection - Provision of an Intra-building circuit</i> <i>f) IBC Rental - Rental of an Intra-building circuit</i>
<b>Customer(s):</b> <i>Other Communication Providers</i>
<b>Price list entry:</b> <i>Section B2.02</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Wholesale intra-building circuits connection</i>
<b>Market:</b> <i>Technical areas (Interconnect Circuits)</i>
<b>Market review:</b> <i>Fixed narrowband wholesale exchange line, call origination, conveyance &amp; transit.</i>
<b>Service Offering:</b>  <i>Provision of an Intra-Building Interconnect circuit - a connection between a BT Switch Connection and the Interface on the Multiplexor forming part of an Interconnect Link.</i>  <u><i>Includes:</i></u>  <i>a) All direct engineering activity and commissioning to complete the connection</i>  <u><i>Supplementary Services:</i></u>  <i>To fulfil service connectivity, the following services are required in conjunction with the provision of an Intra-building circuit:</i>  <i>a) CSI Connection - Provision of a CSI circuit</i> <i>b) CSI Rental (fixed) - Non distance-related rental of a CSI circuit</i> <i>c) CSI rental per km - Distance-related rental of a CSI circuit</i> <i>OR</i> <i>d) ISI Connection - Provision of an In-Span Interconnect circuit</i> <i>e) ISI Rental - Rental of an In-Span Interconnect circuit</i>  <i>Also, where interconnect is required beyond the adjacent exchange:</i>  <i>a) IEC Connection – Provision of an Interconnect Extension circuit</i> <i>b) IEC (fixed) Rental – Non distance-related rental of an Interconnect Extension circuit</i> <i>c) IEC Rental per km – Distance-related rental of an Interconnect Extension circuit</i>
<b>Customer(s):</b> <i>BT Retail and Other Communication Providers</i>
<b>Price list entry:</b> <i>Section B2.02</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Wholesale intra-building circuits rental</i>
<b>Market:</b> <i>Technical areas (Interconnect Circuits)</i>
<b>Market review:</b> <i>Fixed narrowband wholesale exchange line, call origination, conveyance &amp; transit.</i>
<b>Service Offering:</b>  <i>Rental of a link between a BT Switch Connection and the Interface on the Multiplexor forming part of an Interconnect Link .</i>  <u><i>Includes:</i></u>  <i>a) Reactive &amp; preventative maintenance including line testing &amp; fault handling</i> <i>b) Engineering and network support activity</i>  <u><i>Supplementary Services:</i></u>  <i>To fulfil service connectivity, the following services are required in conjunction with the rental of an Intra-building circuit:</i>  <i>a) CSI Connection - Provision of a CSI circuit</i> <i>b) CSI Rental (fixed) - Non distance-related rental of a CSI circuit</i> <i>c) CSI rental per km - Distance-related rental of a CSI circuit</i> <i>OR</i> <i>d) ISI Connection - Provision of an In-Span Interconnect circuit</i> <i>e) ISI Rental - Rental of an In-Span Interconnect circuit</i>  <i>Also, where interconnect is required beyond the adjacent exchange:</i>  <i>a) IEC Connection – Provision of an Interconnect Extension circuit</i> <i>b) IEC (fixed) Rental – Non distance-related rental of an Interconnect Extension circuit</i> <i>c) IEC Rental per km – Distance-related rental of an Interconnect Extension circuit</i>
<b>Customer(s):</b> <i>BT Retail and Other Communication Providers</i>
<b>Price list entry:</b> <i>Section B2.02</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Wholesale rearrangements</i>
<b>Market:</b> <i>Technical areas (Interconnect Circuits)</i>
<b>Market review:</b> <i>Fixed narrowband wholesale exchange line, call origination, conveyance &amp; transit.</i>
<b>Service Offering:</b>  <i>Rearrangement of Intra building circuits will be necessary when an operator wishes to alter the actual routing of the circuit within the exchange (physical rearrangement) or the type of service offered over the circuit (software rearrangement).</i>  <i>A change necessitating a 2 Mbit/s Path being moved from one building to another building is not covered by rearrangement charges and requires cessation of the circuit and the provision of a new 2 Mbit/s CSI Interconnect Link.</i>
<b>Customer(s):</b> <i>Other Communication Providers</i>
<b>Price list entry:</b> <i>Section B2.01</i> ( <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a> )

## BT Wholesale Catalogue

<b>Service:</b> <i>Nominated ISI - per km</i>
<b>Market:</b> <i>Technical areas (Interconnect Circuits)</i>
<b>Market review:</b> <i>Fixed narrowband wholesale exchange line, call origination, conveyance &amp; transit.</i>
<b>Service Offering:</b>  <i>Rental of ISI Interconnect Link from jointing chamber to BT premises.</i>  <u>Includes:</u>  <i>a) Fibre and Duct . b) Reactive &amp; preventative maintenance including line testing &amp; fault handling c) Engineering and network support activity d) All direct engineering activity and commissioning to complete the connection</i>  <u>Supplementary Services:</u>  <i>To fulfil service connectivity, the following services are required in conjunction with the rental of an ISI circuit:</i>  <i>a) ISI Connection - Provision of an In-Span Interconnect circuit b) IBC Connection - Provision of an Intra-building circuit c) IBC Rental - Rental of an Intra-building circuit</i>  <i>Also, where interconnect is required beyond the adjacent exchange:</i>  <i>a) IEC Connection – Provision of an Interconnect Extension circuit b) IEC (fixed) Rental – Non distance-related rental of an Interconnect Extension circuit c) IEC Rental per km – Distance-related rental of an Interconnect Extension circuit</i>
<b>Customer(s):</b> <i>Other Communication Providers</i>
<b>Price list entry:</b> <i>Section B2.02</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Wholesale call termination local exchange segment</i>
<b>Market:</b> <i>Fixed call termination</i>
<b>Market review:</b> <i>Review of the fixed geographic call termination markets.</i>
<b>Service Offering:</b>  <i>Call duration for a call terminating on the Access network originating from a Local Exchange switch .</i>  <i>Includes call set – up (establishing a network end to end path) and call duration (holding the path open for the time the link is open) and utilises the following elements: Concentrator, Local Exchange switching, Remote to Local Transmission Link &amp; Length.</i>  <i>Also includes :</i>  <i>a) Engineering and network support activity.</i> <i>b) Reactive and preventative maintenance including testing and fault handling.</i> <i>c) Sales, General &amp; Admin.</i>
<b>Customer(s):</b> <i>BT Retail and Other Communication Providers</i>
<b>Price list entry:</b> <i>Section C1.1</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Wholesale call termination local exchange segment (ISDN)</i>
<b>Market:</b> <i>Fixed call termination</i>
<b>Market review:</b> <i>Review of the fixed geographic call termination markets.</i>
<b>Service Offering:</b>  <i>Call duration for an ISDN (Integrated services Digital Network) call terminating on the Access network originating from a Local Exchange switch .</i>  <i>Includes call set – up (establishing a network end to end path) and call duration (holding the path open for the time the link is open) and utilises the following elements; Concentrator, Local Exchange switching, Remote to Local Transmission Link &amp; Length.</i>  <i>Also includes :</i>  <i>a) Engineering and network support activity.</i> <i>b) Reactive and preventative maintenance including testing and fault handling.</i> <i>c) Sales, General &amp; Admin.</i>
<b>Customer(s):</b> <i>BT Retail and Other Communication Providers</i>
<b>Price list entry:</b> <i>Section C1.1</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Wholesale call termination local exchange stick</i>
<b>Market:</b> <i>Fixed call termination</i>
<b>Market review:</b> <i>Review of the fixed geographic call termination markets.</i>
<b>Service Offering:</b>  <i>Call duration for a call terminating on the Access network originating from a Local Exchange switch .</i>  <i>Includes call set – up (establishing a network end to end path) and call duration (holding the path open for the time the link is open) and utilises the following elements; Concentrator, Remote to Local Transmission Link &amp; Length.</i>  <i>Does not include Local Exchange switching and is only applicable to BT-BT and some CPS calls.</i>  <i>Also includes :</i>  <i>a) Engineering and network support activity.</i> <i>b) Reactive and preventative maintenance including testing and fault handling.</i> <i>c) Sales, General &amp; Admin.</i>
<b>Customer(s):</b> <i>BT Retail and Other Communication Providers</i>
<b>Price list entry:</b> <i>Section C1.1</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Wholesale call termination local exchange stick (ISDN)</i>
<b>Market:</b> <i>Fixed call termination</i>
<b>Market review:</b> <i>Review of the fixed geographic call termination markets.</i>
<b>Service Offering:</b>  <i>Call duration for an ISDN (Integrated Services Digital Network) call terminating on the Access network originating from a Local Exchange switch .</i>  <i>Includes call set – up (establishing a network end to end path) and call duration (holding the path open for the time the link is open) and utilises the following elements; Concentrator, Remote to Local Transmission Link &amp; Length.</i>  <i>Does not include Local Exchange switching and is only applicable to BT-BT and some CPS calls.</i>  <i>Also includes :</i>  <i>a) Engineering and network support activity.</i> <i>b) Reactive and preventative maintenance including testing and fault handling.</i> <i>c) Sales, General &amp; Admin.</i>
<b>Customer(s):</b> <i>BT Retail and Other Communication Providers</i>
<b>Price list entry:</b> <i>Section C1.1</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Partial and Private Circuits 64kbit/s - connection</i>
<b>Market:</b> <i>Traditional interface symmetric broadband origination (up to and including 8Mbit/s)</i>
<b>Market review:</b> <i>Review of the retail leased lines, symmetric broadband origination and wholesale trunk segments markets</i>
<b>Service Offering:</b>  <b><u>Outline of Service</u></b>  <i>A Partial and Private Circuit operating at 64kbit/s is a wholesale circuit from a Third Party Customer Link to a Public Electronic Communications Networks' (PECN) Point of Handover (PoH).</i>  <i>The service will be from a Third Party Customer site across the BT Digital Private Circuit Network to an agreed PoH at an appropriate Digital Cross Connect Site which is coincident with the nearest appropriate SDH BT Serving Node – typically a Tier 1 or Tier 1.5 ('Super cell') or Tier 2 BT Serving Node or any Tier 1 SDH BT Serving Node chosen by the PECN - for connection to the PECN's PoH.</i>  <i>The PoH can be located at a PECN's site and configured as a Customer Sited Handover (CSH), In Span Handover (ISH) or ISH extension.</i>  <b><u>Key Features &amp; Availability</u></b>  <b><u>PECN's PoH</u></b> <i>The Main Link will nominally cover the distance from the Third Party Customers BT Serving Exchange to the SDH Network BT Serving Node (Tier 1, Tier 1.5 or Tier 2) used for connection to the PECN.</i>  <i>The delivery, for each individual Partial and Private Circuit at 64kbit/s to the PECN will be via a 2 Mbit/s Aggregate Interface presented across an STM-1 or STM-4 or STM-16 line transmission system at the PoH.</i>  <i>Further technical specification regarding the bearer and how the service will be presented at the PoH can be found within Supplier Information Notes (SIN) 254 'KiloStream Aggregate Interface Service Description'. SIN documents can be found at: - <a href="http://www.sinet.bt.com">www.sinet.bt.com</a>.</i>  <i>Note that PoH electronics are available to Other Communications Providers only</i>
<b>Customer(s):</b> <i>BT Retail and Other Communication Providers</i>
<b>Price list entry:</b> <i>Section B8</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Partial and Private Circuits 64kbit/s - link</i>
<b>Market:</b> <i>Traditional interface symmetric broadband origination (up to and including 8Mbit/s)</i>
<b>Market review:</b> <i>Review of the retail leased lines, symmetric broadband origination and wholesale trunk segments markets</i>
<b>Service Offering:</b>  <b><u>Outline of Service</u></b>  <i>A Partial and Private Circuit operating at 64kbit/s is a wholesale circuit from a Third Party Customer Link to a Public Electronic Communications Networks' (PECN) Point of Handover (PoH).</i>  <b><u>Outline of Service</u></b>  <i>The link is associated with the Digital Private Circuits Network (DPCN) Private Circuits provide a dedicated point-to-point connection for exclusive voice and data communications between two sites (BT or customer). They utilise bearers and line systems which consist of electronics and interconnecting cable. The link component encompasses the fixed costs of connecting BT sites at the terminating ends into the core network.</i>  <i>With the improved identification of the circuit ends, only the bearer between the terminating end and LSE is now identified as Link</i>  <i>Note that PoH electronics are available to Other Communications Providers only</i>
<b>Customer(s):</b> <i>BT Retail and Other Communication Providers</i>
<b>Price list entry:</b> <i>Section B8</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Partial and Private Circuits 64kbit/s - transmission</i>
<b>Market:</b> <i>Traditional interface symmetric broadband origination (up to and including 8Mbit/s)</i>
<b>Market review:</b> <i>Review of the retail leased lines, symmetric broadband origination and wholesale trunk segments markets</i>
<b>Service Offering:</b>  <i>A Partial and Private Circuit operating at 64kbit/s is a wholesale circuit from a Third Party Customer Link to a Public Electronic Communications Networks' (PECN) Point of Handover (PoH).</i>  <b><u>Outline of Service</u></b>  <i>This component captures the 64k link length costs associated with the Digital Private Circuits Network (DPCN). The component volumes are measured in Radial km basis.</i>
<b>Customer(s):</b> <i>BT Retail and Other Communication Providers</i>
<b>Price list entry:</b> <i>Section B8</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Partial and Private Circuits 64kbit/s – local end</i>
<b>Market:</b> <i>Traditional interface symmetric broadband origination (up to and including 8Mbit/s)</i>
<b>Market review:</b> <i>Review of the retail leased lines, symmetric broadband origination and wholesale trunk segments markets</i>
<b>Service Offering:</b>  <b><u>Outline of Service</u></b>  <i>A Partial and Private Circuit operating at 64kbit/s is a wholesale circuit from a Third Party Customer Link to a Public Electronic Communications Networks' (PECN) Point of Handover (PoH).</i>  <i>The local end' service will be from a Third Party Customer site across the Local Access Network to the terminating equipment at the serving exchange.</i>  <b><u>Key Features &amp; Availability</u></b>  <i>The Local End covers the distance from the Third Party Customers site to the BT Serving Exchange. This service can be brought in conjunction with link and length services which provide onward connection to the SDH Network BT Serving Node used for connection to the PECN.</i>  <i>Further technical specification regarding the bearer and how the service will be presented at the PoH can be found within Supplier Information Notes (SIN) 254 'KiloStream Aggregate Interface Service Description'. SIN documents can be found at: - <a href="http://www.sinet.bt.com">www.sinet.bt.com</a>.</i>
<b>Customer(s):</b> <i>BT Retail and Other Communication Providers</i>
<b>Price list entry:</b> <i>Section B8</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Partial and Private Circuits 2Mbit/s - connection</i>
<b>Market:</b> <i>Traditional interface symmetric broadband origination (up to and including 8Mbit/s)</i>
<b>Market review:</b> <i>Review of the retail leased lines, symmetric broadband origination and wholesale trunk segments markets</i>
<b>Service Offering:</b>  <b><u>Outline of Service</u></b>  <i>A Partial and Private Circuit operating at 2Mbit/s is a wholesale circuit from a Third Party Customer Link to a Public Electronic Communications Networks' (PECN) Point of Handover (PoH).</i>  <i>The service will be from a Third Party customer site across the BT network to an agreed PoH served by the nearest appropriate SDH BT Serving Node typically a Tier 1 or Tier 1.5 ('Super cell') Tier 2 or Tier 3 BT Serving Node or any Tier 1 SDH BT Serving Node chosen by the PECN - for connection to the PECN's Point of Handover.</i>  <i>The PoH can be located at a PECN's site, and configured as a Customer Sited Handover (CSH), In Span Handover (ISH) or In Span Handover Extension (ISH Extn).</i>  <b><u>Key Features &amp; Availability</u></b>  <b><u>PECN's PoH</u></b> <i>The Main Link will nominally cover the distance from the Third Party Customers BT Serving Exchange to the SDH Network BT Serving Node (Tier 1, Tier 1.5, Tier 2 or Tier 3) used for connection to the PECN.</i>  <i>The delivery, for each individual Partial and Private Circuit at 2Mbit/s to the PECN will be presented across an STM-1, STM-4 or STM-16 line transmission system at the PoH.</i>  <i>The chosen routing and protection for the 2Mbit circuit will be provided such that it meets the quality of service for the product.</i>  <i>Note that PoH electronics are available to Other Communications Providers only</i>
<b>Customer(s):</b> <i>BT Retail and Other Communication Providers</i>
<b>Price list entry:</b> <i>Section B8</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Partial and Private Circuits 2mbit/s - link</i>
<b>Market:</b> <i>Traditional interface symmetric broadband origination (up to and including 8Mbit/s)</i>
<b>Market review:</b> <i>Review of the retail leased lines, symmetric broadband origination and wholesale trunk segments markets</i>
<b>Service Offering:</b>  <i>A Partial and Private Circuit operating at 2Mbit/s is a wholesale circuit from a Third Party Customer Link to a Public Electronic Communications Networks' (PECN) Point of Handover (PoH).</i>  <b><u>Outline of Service</u></b>  <i>Private Circuits provide a dedicated point-to-point connection for exclusive voice and data communications between two sites (BT or customer). They utilise bearers and line systems which consist of electronics and interconnecting cable. The link component encompasses the fixed costs of connecting BT sites at the terminating ends into the core network.</i>  <i>With the improved identification of the circuit ends, only the bearer between the terminating end and LSE is now identified as Link</i>
<b>Customer(s):</b> <i>BT Retail and Other Communication Providers</i>
<b>Price list entry:</b> <i>Section B8</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Partial and Private Circuits 2Mbit/s - distribution</i>
<b>Market:</b> <i>Traditional interface symmetric broadband origination (up to and including 8Mbit/s)</i>
<b>Market review:</b> <i>Review of the retail leased lines, symmetric broadband origination and wholesale trunk segments markets</i>
<b>Service Offering:</b>  <i>A Partial and Private Circuit operating at 2Mbit/s is a wholesale circuit from a Third Party Customer Link to a Public Electronic Communications Networks' (PECN) Point of Handover (PoH).</i>  <b><u>Outline of Service</u></b>  <i>Private Circuits provide a dedicated point-to-point connection for exclusive voice and data communications between two sites (BT or customer). They utilise bearers and line systems which consist of electronics and interconnecting cable. The distribution component encompasses costs of SDH/MSH bears between Tier 1.5 to 4 and PDH line systems with a bit rate between 2 and 34 Mbit, within the core network (excluding local ends and links to terminating ends).</i>  <i>This component is specific to 2Mbit circuits</i>
<b>Customer(s):</b> <i>BT Retail and Other Communication Providers</i>
<b>Price list entry:</b> <i>Section B8</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Partial and Private Circuits 2Mbit/s – local end CLZ</i>
<b>Market:</b> <i>Traditional interface symmetric broadband origination (up to and including 8Mbit/s)</i>
<b>Market review:</b> <i>Review of the retail leased lines, symmetric broadband origination and wholesale trunk segments markets</i>
<b>Service Offering:</b> <b><u>Outline of Service</u></b>  <i>A Partial and Private Circuit operating at 2mbit/s is a wholesale circuit from a Third Party Customer Link to a Public Electronic Communications Networks' (PECN) Point of Handover (PoH).</i>  <i>The local end' service will be from a Third Party Customer site across the Local Access Network to the terminating equipment at the serving exchange.</i>  <i>A local end CLZ service implies that this part of the circuit is located in the Central London zone.</i>  <b><u>Key Features &amp; Availability</u></b>  <i>The Local End covers the distance from the Third Party Customers site to the BT Serving Exchange. This service can be bought in conjunction with link and length services which provide onward connection to the SDH Network BT Serving Node used for connection to the PECN.</i>  <i>Further technical specification regarding the bearer and how the service will be presented at the PoH can be found within Supplier Information Notes (SIN) 254 'KiloStream Aggregate Interface Service Description'. SIN documents can be found at: - <a href="http://www.sinet.bt.com">www.sinet.bt.com</a>.</i>
<b>Customer(s):</b> <i>BT Retail and Other Communication Providers</i>
<b>Price list entry:</b> <i>Section B8.03</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Partial and Private Circuits 2Mbit/s – local end non CLZ</i>
<b>Market:</b> <i>Traditional interface symmetric broadband origination (up to and including 8Mbit/s)</i>
<b>Market review:</b> <i>Review of the retail leased lines, symmetric broadband origination and wholesale trunk segments markets</i>
<b>Service Offering:</b> <b><u>Outline of Service</u></b>  <i>A Partial and Private Circuit operating at 2mbit/s is a wholesale circuit from a Third Party Customer Link to a Public Electronic Communications Networks' (PECN) Point of Handover (PoH).</i>  <i>The local end' service will be from a Third Party Customer site across the Local Access Network to the terminating equipment at the serving exchange.</i>  <i>A local end non CLZ service implies that this part of the circuit is not located in the Central London zone.</i>  <b><u>Key Features &amp; Availability</u></b>  <i>The Local End covers the distance from the Third Party Customers site to the BT Serving Exchange. This service can be brought in conjunction with link and length services which provide onward connection to the SDH Network BT Serving Node used for connection to the PECN.</i>  <i>Further technical specification regarding the bearer and how the service will be presented at the PoH can be found within Supplier Information Notes (SIN) 254 'KiloStream Aggregate Interface Service Description'. SIN documents can be found at: - <a href="http://www.sinet.bt.com">www.sinet.bt.com</a>.</i>
<b>Customer(s):</b> <i>BT Retail and Other Communication Providers</i>
<b>Price list entry:</b> <i>Section B8.03</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service: RBS Backhaul sub 2mb – rental</b>
<b>Market:</b> <i>Traditional interface symmetric broadband origination (up to and including 8Mbit/s)</i>
<b>Market review:</b> <i>Review of the retail leased lines, symmetric broadband origination and wholesale trunk segments markets</i>
<b>Service Offering:</b>  <b><u>Outline of Service</u></b> <i>The Radio Base Station Backhaul service comprises three main elements:</i> <ul style="list-style-type: none"><li>• <i>The Point of Connection (A-end): This is the infrastructure that provides the connection between the MNO's switching centre, or network, and the serving SDH node in the BT network. The high-capacity PoC infrastructure is supplied as a Customer Sited Connection (CSC) and is available at SMA-1, SMA-4 and SMA-16. Multiple Radio Base Station Backhaul circuits can be handed over at a single PoC.</i></li><li>• <i>The Cell Site (B-end): This is the infrastructure that provides the connection between the remote Cell Site (Radio Base Station) and the nearest BT Exchange. This infrastructure can support either singleton, or multiple circuits, including multiple connections at 4 x 2Mbit/s or 16 x 2Mbits. Presentation at the Cell Site will be via standard G703 or X21 interfaces.</i></li><li>• <i>Radio Base Station Backhaul Circuit: This is the connection across the BT network between the PoC and the Cell Site. Radio Base Station Backhaul Circuits are available at the following bandwidths: 128Kbit/s; 192Kbit/s; 256Kbit/s; 320Kbit/s, 384Kbit/s, 448Kbit/s; 512Kbit/s; 576Kbit/s; 640Kbit/s; 704Kbit/s; 768Kbits; 832Kbit/s; 896Kbit/s; 960Kbit/s and 2Mbit/s.</i></li></ul> <b><u>Key Features &amp; Availability</u></b> <i>The product will be available nationally, for new supply, at 2Mbit/s and all bandwidths between 128Kbit/s and 960Kbit/s.</i>  <i>Qualifying existing circuits between Cell Sites and MSCs, used for radio base station backhaul purposes only, at bandwidths of 2Mbit/s and between 128Kbit/s and 1024Kbit/s, may also be migrated to Radio Base Station Backhaul terms and conditions.</i>  <i>Connection to the MSC can be either direct (single tier) or indirect (two tier). If Radio Base Station Backhaul is used with a two tier network then an additional service (non Radio Base Station Backhaul) is required to link to the Switch Site. Cell to Cell circuits are not eligible for Radio Base Station Backhaul Backhaul.</i>
<b>Customer(s):</b> <i>Mobile Network Operators</i>
<b>Price list entry:</b> <i>Section B11</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service: RBS Backhaul sub 2mb – connection</b>
<b>Market:</b> <i>Traditional interface symmetric broadband origination (up to and including 8Mbit/s)</i>
<b>Market review:</b> <i>Review of the retail leased lines, symmetric broadband origination and wholesale trunk segments markets</i>
<b>Service Offering:</b>  <b><u>Outline of Service</u></b> <i>The Radio Base Station Backhaul service comprises three main elements:</i> <ul style="list-style-type: none"><li><i>The Point of Connection (A-end): This is the infrastructure that provides the connection between the MNO's switching centre, or network, and the serving SDH node in the BT network. The high-capacity PoC infrastructure is supplied as a Customer Sited Connection (CSC) and is available at SMA-1, SMA-4 and SMA-16. Multiple Radio Base Station Backhaul circuits can be handed over at a single PoC.</i></li><li><i>The Cell Site (B-end): This is the infrastructure that provides the connection between the remote Cell Site (Radio Base Station) and the nearest BT Exchange. This infrastructure can support either singleton, or multiple circuits, including multiple connections at 4 x 2Mbit/s or 16 x 2Mbits. Presentation at the Cell Site will be via standard G703 or X21 interfaces.</i></li><li><i>Radio Base Station Backhaul Circuit: This is the connection across the BT network between the PoC and the Cell Site. Radio Base Station Backhaul Circuits are available at the following bandwidths: 128Kbit/s; 192Kbit/s; 256Kbit/s; 320Kbit/s, 384Kbit/s, 448Kbit/s; 512Kbit/s; 576Kbit/s; 640Kbit/s; 704Kbit/s; 768Kbits; 832Kbit/s; 896Kbit/s; 960Kbit/s and 2Mbit/s.</i></li></ul> <b><u>Key Features &amp; Availability</u></b> <i>The product will be available nationally, for new supply, at 2Mbit/s and all bandwidths between 128Kbit/s and 960Kbit/s.</i>  <i>Qualifying existing circuits between Cell Sites and MSCs, used for radio base station backhaul purposes only, at bandwidths of 2Mbit/s and between 128Kbit/s and 1024Kbit/s, may also be migrated to Radio Base Station Backhaul terms and conditions.</i>  <i>Connection to the MSC can be either direct (single tier) or indirect (two tier). If Radio Base Station Backhaul is used with a two tier network then an additional service (non Radio Base Station Backhaul) is required to link to the Switch Site. Cell to Cell circuits are not eligible for Radio Base Station Backhaul Backhaul.</i>
<b>Customer(s):</b> <i>Mobile Network Operators</i>
<b>Price list entry:</b> <i>Section B11</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service: RBS Backhaul 2mb – rental</b>
<b>Market:</b> <i>Traditional interface symmetric broadband origination (up to and including 8Mbit/s)</i>
<b>Market review:</b> <i>Review of the retail leased lines, symmetric broadband origination and wholesale trunk segments markets</i>
<b>Service Offering:</b>  <b><u>Outline of Service</u></b> <i>The Radio Base Station Backhaul service comprises three main elements:</i> <ul style="list-style-type: none"><li><i>The Point of Connection (A-end): This is the infrastructure that provides the connection between the MNO's switching centre, or network, and the serving SDH node in the BT network. The high-capacity PoC infrastructure is supplied as a Customer Sited Connection (CSC) and is available at SMA-1, SMA-4 and SMA-16. Multiple Radio Base Station Backhaul circuits can be handed over at a single PoC.</i></li><li><i>The Cell Site (B-end): This is the infrastructure that provides the connection between the remote Cell Site (Radio Base Station) and the nearest BT Exchange. This infrastructure can support either singleton, or multiple circuits, including multiple connections at 4 x 2Mbit/s or 16 x 2Mbits. Presentation at the Cell Site will be via standard G703 or X21 interfaces.</i></li><li><i>Radio Base Station Backhaul Circuit: This is the connection across the BT network between the PoC and the Cell Site. Radio Base Station Backhaul Circuits are available at the following bandwidths: 128Kbit/s; 192Kbit/s; 256Kbit/s; 320Kbit/s, 384Kbit/s, 448Kbit/s; 512Kbit/s; 576Kbit/s; 640Kbit/s; 704Kbit/s; 768Kbits; 832Kbit/s; 896Kbit/s; 960Kbit/s and 2Mbit/s.</i></li></ul> <b><u>Key Features &amp; Availability</u></b> <i>The product will be available nationally, for new supply, at 2Mbit/s and all bandwidths between 128Kbit/s and 960Kbit/s.</i>  <i>Qualifying existing circuits between Cell Sites and MSCs, used for radio base station backhaul purposes only, at bandwidths of 2Mbit/s and between 128Kbit/s and 1024Kbit/s, may also be migrated to Radio Base Station Backhaul terms and conditions.</i>  <i>Connection to the MSC can be either direct (single tier) or indirect (two tier). If Radio Base Station Backhaul is used with a two tier network then an additional service (non Radio Base Station Backhaul) is required to link to the Switch Site. Cell to Cell circuits are not eligible for Radio Base Station Backhaul Backhaul.</i>
<b>Customer(s):</b> <i>Mobile Network Operators</i>
<b>Price list entry:</b> <i>Section B11</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service: RBS Backhaul 2mb – connection</b>
<b>Market:</b> <i>Traditional interface symmetric broadband origination (up to and including 8Mbit/s)</i>
<b>Market review:</b> <i>Review of the retail leased lines, symmetric broadband origination and wholesale trunk segments markets</i>
<b>Service Offering:</b>  <b><u>Outline of Service</u></b> <i>The Radio Base Station Backhaul service comprises three main elements:</i> <ul style="list-style-type: none"><li><i>The Point of Connection (A-end): This is the infrastructure that provides the connection between the MNO's switching centre, or network, and the serving SDH node in the BT network. The high-capacity PoC infrastructure is supplied as a Customer Sited Connection (CSC) and is available at SMA-1, SMA-4 and SMA-16. Multiple Radio Base Station Backhaul circuits can be handed over at a single PoC.</i></li><li><i>The Cell Site (B-end): This is the infrastructure that provides the connection between the remote Cell Site (Radio Base Station) and the nearest BT Exchange. This infrastructure can support either singleton, or multiple circuits, including multiple connections at 4 x 2Mbit/s or 16 x 2Mbits. Presentation at the Cell Site will be via standard G703 or X21 interfaces.</i></li><li><i>Radio Base Station Backhaul Circuit: This is the connection across the BT network between the PoC and the Cell Site. Radio Base Station Backhaul Circuits are available at the following bandwidths: 128Kbit/s; 192Kbit/s; 256Kbit/s; 320Kbit/s, 384Kbit/s, 448Kbit/s; 512Kbit/s; 576Kbit/s; 640Kbit/s; 704Kbit/s; 768Kbits; 832Kbit/s; 896Kbit/s; 960Kbit/s and 2Mbit/s.</i></li></ul> <b><u>Key Features &amp; Availability</u></b> <i>The product will be available nationally, for new supply, at 2Mbit/s and all bandwidths between 128Kbit/s and 960Kbit/s.</i>  <i>Qualifying existing circuits between Cell Sites and MSCs, used for radio base station backhaul purposes only, at bandwidths of 2Mbit/s and between 128Kbit/s and 1024Kbit/s, may also be migrated to Radio Base Station Backhaul terms and conditions.</i>  <i>Connection to the MSC can be either direct (single tier) or indirect (two tier). If Radio Base Station Backhaul is used with a two tier network then an additional service (non Radio Base Station Backhaul) is required to link to the Switch Site. Cell to Cell circuits are not eligible for Radio Base Station Backhaul.</i>
<b>Customer(s):</b> <i>Mobile Network Operators</i>
<b>Price list entry:</b> <i>Section B11</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Symmetric Digital Subscriber Line (SDSL)</i>
<b>Market:</b> <i>Traditional interface symmetric broadband origination (up to and including 8Mbit/s)</i>
<b>Market review:</b> <i>Review of the retail leased lines, symmetric broadband origination and wholesale trunk segments markets</i>
<b>Service Offering:</b> <ul style="list-style-type: none"><li>• <i>The BT IPstream Symmetric portfolio is an Internet Protocol (IP) connectivity product that offers semi-permanent virtual circuits between large numbers of End Users, distributed over national areas, and a BT Central . IP connections are delivered to End Users over a new Metallic Pair using Symmetric High bit rate Digital Subscriber Line (SHDSL) technology.</i></li><li>• <i>BT Datastream Symmetric Services are designed to provide an end to end ATM connectivity from a Customer's host site to a large number of End Users. The service consists of connectivity to the BT Network via a Customer Access Link or ATM Access Port and a number of virtual paths (VP) across the BT Network, with final delivery to the End Users over a new Metallic Pair using SHDSL transmission technology.</i></li></ul>
<b>Customer(s):</b> <i>BT Retail</i>
<b>Price list entry:</b> <i>Section 44 (Wholesale Service Provider Price List)</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Third Party Customer Infrastructure</i>
<b>Market:</b> <i>Traditional interface symmetric broadband origination (up to and including 8Mbit/s)</i>
<b>Market review:</b> <i>Review of the retail leased lines, symmetric broadband origination and wholesale trunk segments markets</i>
<b>Service Offering:</b>  <b><u>Outline of Service</u></b> <i>Third Party Infrastructure refers to the equipment located at a Third Party Customers premises. Third Party infrastructure is the means by which circuits are delivered to Third Party sites and can be delivered either over fibre or copper.</i>  <i>The Third Party End (B-End) infrastructure charge is based on the costs incurred in the PPC Local End Infrastructure build – e.g. copper or fibre – and the Third Party sited equipment installed.</i>  <b><u>Key Features &amp; Availability</u></b> <i>Third Party infrastructure can be ordered either simultaneously with the circuit order or in advance of the circuit order. Where the Third Party Infrastructure and the circuit is ordered together the Infrastructure lead-time will take precedence and both orders will be managed to meet the Infrastructure timescale i.e. where the Infrastructure lead-time is 85 working days and the circuit lead-time is 30 working days, both orders will be managed to the 85 working days lead-time. Refer to Annex E Clause 3.12 of the PPC Handover Agreement.</i>
<b>Customer(s):</b> <i>BT Retail and Other Communication Providers</i>
<b>Price list entry:</b> <i>Section B8.02</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Protected Path Variants and Resilience</i>
<b>Market:</b> <i>Traditional interface symmetric broadband origination (up to and including 8Mbit/s)</i>
<b>Market review:</b> <i>Review of the retail leased lines, symmetric broadband origination and wholesale trunk segments markets</i>
<b>Service Offering:</b>  <b><u>Outline of Service</u></b> <i>BT employs a complex set of routing rules within its network to ensure Quality of Service levels are maintained and assets are utilised efficiently. Communications Providers have a choice of PPC circuit protection levels to help them meet their end user's requirements.</i>  <i>The Service includes the option of having a resilient path provided or monitoring service that enables pairs or groups of circuits to be routed along different paths through the BT network</i>  <b><u>Key Features and Availability</u></b> <b><i>Protected Path Variant 1</i></b> <i>provides a resilient path from the Third Party customer site to a single Point of Handover. It features two access paths from the Third Party customer site to two BT serving nodes (i.e. dual path, dual parent). Resilience is then provided across the core SDH network to the single PoH at the Communication Provider's network.</i>  <b><i>Protected Path Variant 2</i></b> <i>provides a resilient path from the Third Party customer site to a pair of handover points, with no single point of failure. It features a variant of Drop and Continue Interworking+ (D&amp;CI) functionality which will be configured in the BT Network and should be configured in the Communications Provider's network to deliver the assured Quality of Service to the end user. It also features two access paths from the Third Party customer Site to two BT Serving Nodes (i.e. dual path, dual parent). Resilience is then provided across the core SDH network to the two PoHs at the Communications Provider's network.</i>  <b><i>PPC Assured Resilience</i></b> <i>is a monitoring service that enables pairs or groups of circuits to be routed along different paths through the BT network. It ensures that no single event could cause failure to both circuits in a pair or all circuits in a group. The circuit paths are monitored to ensure no compromise occurs due to engineering work on the core BT network. This enables specific circuits to benefit from a level of resilience above BT's standard offering for these circuits. Assured Resilience is not available for Protected Path Variants 1 and 2.</i>
<b>Customer(s):</b> <i>BT Retail and Other Communication Providers</i>
<b>Price list entry:</b> <i>Section B8.03</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Excess Construction Charges</i>
<b>Market:</b> <i>Traditional interface symmetric broadband origination (up to and including 8Mbit/s)</i>
<b>Market review:</b> <i>Review of the retail leased lines, symmetric broadband origination and wholesale trunk segments markets</i>
<b>Service Offering:</b>  <b><u>Outline of Service</u></b> <i>Excess Construction Charges are raised when the work required to complete a circuit provision order exceeds that of the published price for PPC circuit provision.</i>  <i>Note: No charges for cable will be raised for standard routing.</i>  <i>Where Communications Providers request non standard access routing for business continuity purposes (e.g. Assured Resilience), full excess construction charges apply for the second route.</i>  <i>A site requiring wideband access is defined as a single point within Third Party customer premises which can be used for the termination of wideband circuits.</i>  <b><u>Key Features and Availability</u></b> <i>The Excess construction costs are identified during the planning stage of all products/services provided over a Wideband infrastructure and will be notified at the FOC stage of the order process. Where Communications Providers does not accept the charge at FOC the order will be cancelled.</i>
<b>Customer(s):</b> <i>BT Retail and Other Communication Providers</i>
<b>Price list entry:</b> <i>Section B8.06</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Partial and Private Circuits 34/45 M/bit/s - connection</i>
<b>Market:</b> <i>Traditional interface symmetric broadband origination (above 8Mbit/s up to and including 155Mbit/s)</i>
<b>Market review:</b> <i>Review of the retail leased lines, symmetric broadband origination and wholesale trunk segments markets</i>
<b>Service Offering:</b> <b><u>Outline of Service</u></b>  <i>A Partial and Private Circuit operating at 34/45 is a wholesale circuit from a Third Party Customer to a Public Electronic Communications Networks' (PECN) Point of Handover (PoH).</i>  <i>The service will be from a Third Party customer site across the BT network to an agreed PoH served by the nearest appropriate SDH BT Serving Node – typically a Tier 1 or Tier 1.5 ('Super cell') Tier 2 or Tier 3 BT Serving Node or any Tier 1 SDH BT Serving Node chosen by the PECN - for connection to the PECN's PoH.</i>  <i>The PoH can be located at a PECN's site, and configured as a Customer Sited Handover (CSH), or alternatively it can be co-incident with the SDH BT Serving Node and configured as an In Span Handover (ISH) or In Span Handover Extension (ISH Extn).</i>  <b><u>Key Features &amp; Availability</u></b>  <b><u>PECNs PoH</u></b> <i>The Main Link will nominally cover the distance from the Third Party Customers BT Serving Exchange to the SDH Network BT Serving Node (Tier 1, Tier 1.5, Tier 2 or Tier 3) used for connection to the PECN.</i>  <i>The delivery, for each individual Partial and Private Circuit at 34/45 to the PECN will be presented across an STM-1 or STM-4 or STM-16 line transmission system at the PoH.</i>  <i>The chosen routing and protection for the high bandwidth circuit will be provided such that it meets the quality of service for the product.</i>  <i>Note that PoH electronics are available to Other Communications Providers only</i>
<b>Customer(s):</b> <i>BT Retail and Other Communication Providers</i>
<b>Price list entry:</b> <i>Section B8.02</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Partial and Private Circuits 140/155 Mbit/s - connection</i>
<b>Market:</b> <i>Traditional interface symmetric broadband origination (above 8Mbit/s up to and including 155Mbit/s)</i>
<b>Market review:</b> <i>Review of the retail leased lines, symmetric broadband origination and wholesale trunk segments markets</i>
<b>Service Offering:</b>  <b><u>Outline of Service</u></b>  <i>A Partial and Private Circuit operating at 140/155 Mbit/s is a Wholesale circuit from a Third Party Customer to a Public Electronic Communications Networks' (PECN) Point of Handover (PoH).</i>  <i>The service will be from a Third Party customer site across the BT network to an agreed PoH served by the nearest appropriate SDH BT Serving Node – typically a Tier 1 or Tier 1.5 ('Super cell') Tier 2 or Tier 3 BT Serving Node or any Tier 1 SDH BT Serving Node chosen by the PECN - for connection to the PECN's PoH.</i>  <i>The PoH can be located at a PECN's site, and configured as a Customer Sited Handover (CSH), or alternatively it can be co-incident with the SDH BT Serving Node and configured as an In Span Handover (ISH) or In Span Handover Extension (ISH Extn).</i>  <b><i>155 Mbit Service MSH-MSH</i></b>  <i>A Partial and Private Circuit operating at 155 Mbit/s is a Wholesale circuit from a Third Party Customer MSH51C to a PECN Point of Handover (PoH) MSH51C.</i>  <b><u>Key Features &amp; Availability</u></b>  <b><i>PECNs PoH</i></b>  <i>The Main Link will nominally cover the distance from the Third Party Customers BT Serving Exchange to the SDH Network BT Serving Node (Tier 1, Tier 1.5, Tier 2 or Tier 3) used for connection to the PECN.</i>  <i>The delivery, for each individual Partial and Private Circuit at 34/45 &amp; 140/155Mbit/s to the PECN will be presented across an STM-1 or STM-4 or STM-16 line transmission system at the PoH.</i>
<b>Customer(s):</b> <i>BT Retail and Other Communication Providers</i>
<b>Price list entry:</b> <i>Section B8.02</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Partial and Private Circuits 34/45mbit/s - link</i>
<b>Market:</b> <i>Traditional interface symmetric broadband origination (above 8Mbit/s up to and including 155Mbit/s)</i>
<b>Market review:</b> <i>Review of the retail leased lines, symmetric broadband origination and wholesale trunk segments markets</i>
<b>Service Offering:</b>  <b><u>Outline of Service</u></b>  <b><u>34/45 Mbit service</u></b> <i>A Partial and Private Circuit operating at 34/45 is a wholesale circuit from a Third Party Customer to a Public Electronic Communications Networks' (PECN) Point of Handover (PoH).</i>  <i>The service will be from a Third Party customer site across the BT network to an agreed PoH served by the nearest appropriate SDH BT Serving Node – typically a Tier 1 or Tier 1.5 ('Super cell') Tier 2 or Tier 3 BT Serving Node or any Tier 1 SDH BT Serving Node chosen by the PECN - for connection to the PECN's PoH.</i>  <i>The PoH can be located at a PECN's site, and configured as a Customer Sited Handover (CSH), or alternatively it can be co-incident with the SDH BT Serving Node and configured as an In Span Handover (ISH) or In Span Handover Extension (ISH Extn).</i>  <b><u>Key Features &amp; Availability</u></b>  <b><u>PECNs PoH</u></b> <i>The Main Link will nominally cover the distance from the Third Party Customers BT Serving Exchange to the SDH Network BT Serving Node (Tier 1, Tier 1.5, Tier 2 or Tier 3) used for connection to the PECN.</i>  <i>The delivery, for each individual Partial and Private Circuit at 34/45 to the PECN will be presented across an STM-1 or STM-4 or STM-16 line transmission system at the PoH.</i>  <i>The chosen routing and protection for the high bandwidth circuit will be provided such that it meets the quality of service for the product.</i>  <i>Note that PoH electronics are available to Other Communications Providers only</i>
<b>Customer(s):</b> <i>BT Retail and Other Communication Providers</i>
<b>Price list entry:</b> <i>Section B8</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Partial and Private Circuits 34/45mbit/s - distribution</i>
<b>Market:</b> <i>Traditional interface symmetric broadband origination (above 8Mbit/s up to and including 155Mbit/s)</i>
<b>Market review:</b> <i>Review of the retail leased lines, symmetric broadband origination and wholesale trunk segments markets</i>
<b>Service Offering:</b>  <i>A Partial and Private Circuit operating at 34/45Mbit/s is a wholesale circuit from a Third Party Customer Link to a Public Electronic Communications Networks' (PECN) Point of Handover (PoH).</i>  <b><u>Outline of Service</u></b>  <i>Private Circuits provide a dedicated point-to-point connection for exclusive voice and data communications between two sites (BT or customer). They utilise bearers and line systems which consist of electronics and interconnecting cable. The distribution component encompasses costs of SDH/MSH bears between Tier 1.5 to 4 and PDH line systems with a bit rate between 2 and 34 Mbit, within the core network (excluding local ends and links to terminating ends).</i>
<b>Customer(s):</b> <i>BT Retail and Other Communication Providers</i>
<b>Price list entry:</b> <i>Section B8</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Partial and Private Circuits 34/45mbit/s – local end</i>
<b>Market:</b> <i>Traditional interface symmetric broadband origination (above 8Mbit/s up to and including 155Mbit/s)</i>
<b>Market review:</b> <i>Review of the retail leased lines, symmetric broadband origination and wholesale trunk segments markets</i>
<b>Service Offering:</b>  <b><u>Outline of Service</u></b>  <i>A Partial and Private Circuit operating at 34/45mbit/s is a wholesale circuit from a Third Party Customer Link to a Public Electronic Communications Networks'(PECN) Point of Handover (PoH).</i>  <i>The local end' service will be from a Third Party Customer site across the Local Access Network to the terminating equipment at the serving exchange.</i>  <b><u>Key Features &amp; Availability</u></b>  <i>The Local End covers the distance from the Third Party Customers site to the BT Serving Exchange. This service can be brought in conjunction with link and length services which provide onward connection to the SDH Network BT Serving Node used for connection to the PECN.</i>  <i>Further technical specification regarding the bearer and how the service will be presented at the PoH can be found within Supplier Information Notes (SIN) 254 'KiloStream Aggregate Interface Service Description'. SIN documents can be found at: - <a href="http://www.sinet.bt.com">www.sinet.bt.com</a>.</i>
<b>Customer(s):</b> <i>BT Retail and Other Communication Providers</i>
<b>Price list entry:</b> <i>Section B8</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Partial and Private Circuits 140/155mbit/s – link</i>
<b>Market:</b> <i>Traditional interface symmetric broadband origination (above 8Mbit/s up to and including 155Mbit/s)</i>
<b>Market review:</b> <i>Review of the retail leased lines, symmetric broadband origination and wholesale trunk segments markets</i>
<b>Service Offering:</b>  <b><u>Outline of Service</u></b>  <i>A Partial and Private Circuit operating at 34/45 or 140/155 Mbit/s is a wholesale circuit from a Third Party Customer to a Public Electronic Communications Networks' (PECN) Point of Handover (PoH).</i>  <i>The service will be from a Third Party customer site across the BT network to an agreed PoH served by the nearest appropriate SDH BT Serving Node – typically a Tier 1 or Tier 1.5 ('Super cell') Tier 2 or Tier 3 BT Serving Node or any Tier 1 SDH BT Serving Node chosen by the PECN - for connection to the PECN's PoH.</i>  <i>The PoH can be located at a PECN's site, and configured as a Customer Sited Handover (CSH), or alternatively it can be co-incident with the SDH BT Serving Node and configured as an In Span Handover (ISH) or In Span Handover Extension (ISH Extn).</i>  <b><i>155 Mbit Service MSH-MSH</i></b>  <i>A Partial and Private Circuit operating at 155 Mbit/s is a wholesale circuit from a Third Party Customer MSH51C to a PECN Point of Handover (PoH) MSH51C.</i>  <b><u>Key Features &amp; Availability</u></b>  <b><i>PECNs PoH</i></b>  <i>The Main Link will nominally cover the distance from the Third Party Customers BT Serving Exchange to the SDH Network BT Serving Node (Tier 1, Tier 1.5, Tier 2 or Tier 3) used for connection to the PECN.</i>  <i>The delivery, for each individual Partial and Private Circuit at 34/45 &amp; 140/155 Mbit/s to the PECN will be presented across an STM-1 or STM-4 or STM-16 line transmission system at the PoH.</i>
<b>Customer(s):</b> <i>BT Retail and Other Communication Providers</i>
<b>Price list entry:</b> <i>Section B8</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Partial and Private Circuits 140/155mbit/s – distribution</i>
<b>Market:</b> <i>Traditional interface symmetric broadband origination (above 8Mbit/s up to and including 155Mbit/s)</i>
<b>Market review:</b> <i>Review of the retail leased lines, symmetric broadband origination and wholesale trunk segments markets.</i>
<b>Service Offering:</b>  <i>A Partial and Private Circuit operating at 155Mbit/s is a wholesale circuit from a Third Party Customer Link to a Public Electronic Communications Networks' (PECN) Point of Handover (PoH).</i>  <b><u>Outline of Service</u></b>  <i>Private Circuits provide a dedicated point-to-point connection for exclusive voice and data communications between two sites (BT or customer). They utilise bearers and line systems which consist of electronics and interconnecting cable. The distribution component encompasses costs of SDH/MSH bears between Tier 1.5 to 4 and PDH line systems with a bit rate between 2 and 34 Mbit/s, within the core network (excluding local ends and links to terminating ends).</i>
<b>Customer(s):</b> <i>BT Retail and Other Communication Providers</i>
<b>Price list entry:</b> <i>Section B8</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Partial and Private Circuits 140/155mbit/s – local end</i>
<b>Market:</b> <i>Traditional interface symmetric broadband origination (above 8Mbit/s up to and including 155Mbit/s)</i>
<b>Market review:</b> <i>Review of the retail leased lines, symmetric broadband origination and wholesale trunk segments markets.</i>
<b>Service Offering:</b>  <b><u>Outline of Service</u></b> <i>A Partial and Private Circuit operating at 140/155mbit/s is a wholesale circuit from a Third Party Customer Link to a Public Electronic Communications Networks'(PECN) Point of Handover (PoH).</i>  <i>The local end' service will be from a Third Party Customer site across the Local Access Network to the terminating equipment at the serving exchange.</i>  <b><u>Key Features &amp; Availability</u></b>  <i>The Local End covers the distance from the Third Party Customers site to the BT Serving Exchange. This service can be brought in conjunction with link and length services which provide onward connection to the SDH Network BT Serving Node used for connection to the PECN.</i>  <i>Further technical specification regarding the bearer and how the service will be presented at the PoH can be found within Supplier Information Notes (SIN) 254 'KiloStream Aggregate Interface Service Description'. SIN documents can be found at: - <a href="http://www.sinet.bt.com">www.sinet.bt.com</a>.</i>
<b>Customer(s):</b> <i>BT Retail and Other Communication Providers</i>
<b>Price list entry:</b> <i>Section B8</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Protected Path Variants and Resilience</i>
<b>Market:</b> <i>Traditional interface symmetric broadband origination (up to and including 8Mbit/s)</i>
<b>Market review:</b> <i>Review of the retail leased lines, symmetric broadband origination and wholesale trunk segments markets</i>
<b>Service Offering:</b>  <b><u>Outline of Service</u></b> <i>BT employs a complex set of routing rules within its network to ensure Quality of Service levels are maintained and assets are utilised efficiently. Communications Providers have a choice of PPC circuit protection levels to help them meet their end user's requirements.</i>  <i>The Service includes the option of having a resilient path provided or monitoring service that enables pairs or groups of circuits to be routed along different paths through the BT network</i>  <b><u>Key Features and Availability</u></b> <b><i>Protected Path Variant 1</i></b> <i>provides a resilient path from the Third Party customer site to a single Point of Handover. It features two access paths from the Third Party customer site to two BT serving nodes (i.e. dual path, dual parent). Resilience is then provided across the core SDH network to the single PoH at the Communication Provider's network.</i>  <b><i>Protected Path Variant 2</i></b> <i>provides a resilient path from the Third Party customer site to a pair of handover points, with no single point of failure. It features a variant of Drop and Continue Interworking+ (D&amp;CI) functionality which will be configured in the BT Network and should be configured in the Communications Provider's network to deliver the assured Quality of Service to the end user. It also features two access paths from the Third Party customer Site to two BT Serving Nodes (i.e. dual path, dual parent). Resilience is then provided across the core SDH network to the two PoHs at the Communications Provider's network.</i>  <b><i>PPC Assured Resilience</i></b> <i>is a monitoring service that enables pairs or groups of circuits to be routed along different paths through the BT network. It ensures that no single event could cause failure to both circuits in a pair or all circuits in a group. The circuit paths are monitored to ensure no compromise occurs due to engineering work on the core BT network. This enables specific circuits to benefit from a level of resilience above BT's standard offering for these circuits.</i> <i>Assured Resilience is not available for Protected Path Variants 1 and 2.</i>
<b>Customer(s):</b> <i>BT Retail and Other Communication Providers</i>
<b>Price list entry:</b> <i>Section B8.03</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>
<b>Service:</b> <i>Wholesale Extension Services 10Mb Rental</i>

## BT Wholesale Catalogue

<b>Market:</b> <i>Alternative Interface Symmetric Broadband Origination (all bandwidths)</i>
<b>Market review:</b> <i>Review of the retail leased lines, symmetric broadband origination and wholesale trunk segments markets.</i>
<b>Service Offering:</b>  <b><u>Outline of Service</u></b>  <b><i>Wholesale Extension Service (WES) –</i></b> <i>High speed, point to point data circuits which are available 24 hours, 365 days per year which are run over fibre to provide a secure link between a third party customer site and the communication providers network.</i>  <i>This service is available at 10Mb bandwidth.</i>  <i>This service is run over a point to point fibre, the associated electronics at either end are within the equivalent connection component.</i>  <i>Further technical specification can be found within Supplier Information Notes (SIN) SIN documents can be found at: - <a href="http://www.sinet.bt.com">www.sinet.bt.com</a>.</i>  <b><i>LAN extension service (LES) –</i></b> <i>High speed, point to point data circuits which are available 24 hours, 365 days per year which are run over fibre to provide a secure link between two third party customer sites.</i>  <i>This service is available at 10Mb bandwidth.</i>  <i>This service is run over a point to point fibre, the associated electronics at either end are within the equivalent connection component.</i>  <i>Further technical specification can be found within Supplier Information Notes (SIN) SIN documents can be found at: - <a href="http://www.sinet.bt.com">www.sinet.bt.com</a>.</i>
<b>Customer(s):</b> <i>WES: BT Retail and Other Communication Providers, LES: BT Global</i>
Price list entry: <a href="http://www.openreach.co.uk/orpg/pricing/ethernet.do">http://www.openreach.co.uk/orpg/pricing/ethernet.do</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Wholesale Extension Services 10Mb Connection</i>
<b>Market:</b> <i>Alternative Interface Symmetric Broadband Origination (all bandwidths)</i>
<b>Market review:</b> <i>Review of the retail leased lines, symmetric broadband origination and wholesale trunk segments markets.</i>
<b>Service Offering:</b>  <b><u>Outline of Service</u></b>  <b><i>Wholesale Extension Service (WES) –</i></b> <i>High speed, point to point data circuits which are available 24 hours, 365 days per year which are run over fibre to provide a secure link between a third party customer site and the communication providers network.</i>  <i>This service is available at 10Mb bandwidth.</i>  <i>This service captures the costs of the electronics at either end of the point to point fibre. These fibre costs are within the equivalent rentals component.</i>  <i>Further technical specification can be found within Supplier Information Notes (SIN) SIN documents can be found at: - <a href="http://www.sinet.bt.com">www.sinet.bt.com</a>.</i>  <b><i>LAN extension service (LES) –</i></b> <i>High speed, point to point data circuits which are available 24 hours, 365 days per year which are run over fibre to provide a secure link between two third party customer sites.</i>  <i>This service is available at 10Mb bandwidth.</i>  <i>This service captures the costs of the electronics at either end of the point to point fibre. These fibre costs are within the equivalent rentals component.</i>  <i>Further technical specification can be found within Supplier Information Notes (SIN) SIN documents can be found at: - <a href="http://www.sinet.bt.com">www.sinet.bt.com</a>.</i>
<b>Customer(s):</b> <i>WES: BT Retail and Other Communication Providers, LES: BT Global</i>
Price list entry: <a href="http://www.openreach.co.uk/org/pricing/ethernet.do">http://www.openreach.co.uk/org/pricing/ethernet.do</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Wholesale Extension Services 100Mb Rental</i>
<b>Market:</b> <i>Alternative Interface Symmetric Broadband Origination (all bandwidths)</i>
<b>Market review:</b> <i>Review of the retail leased lines, symmetric broadband origination and wholesale trunk segments markets.</i>
<b>Service Offering:</b>  <b><u>Outline of Service</u></b>  <b><i>Wholesale Extension Service (WES) –</i></b> <i>High speed, point to point data circuits which are available 24 hours, 365 days per year which are run over fibre to provide a secure link between a third party customer site and the communication providers network.</i>  <i>This service is available at 100Mb bandwidth.</i>  <i>This service is run over a point to point fibre, the associated electronics at either end are within the equivalent connection component.</i>  <i>Further technical specification can be found within Supplier Information Notes (SIN) SIN documents can be found at: - <a href="http://www.sinet.bt.com">www.sinet.bt.com</a>.</i>  <b><i>LAN extension service (LES) –</i></b> <i>High speed, point to point data circuits which are available 24 hours, 365 days per year which are run over fibre to provide a secure link between two third party customer sites.</i>  <i>This service is available at 100Mb bandwidth.</i>  <i>This service is run over a point to point fibre, the associated electronics at either end are within the equivalent connection component.</i>  <i>Further technical specification can be found within Supplier Information Notes (SIN) SIN documents can be found at: - <a href="http://www.sinet.bt.com">www.sinet.bt.com</a>.</i>
<b>Customer(s):</b> <i>WES: BT Retail and Other Communication Providers, LES: BT Global</i>
Price list entry: <a href="http://www.openreach.co.uk/orpg/pricing/ethernet.do">http://www.openreach.co.uk/orpg/pricing/ethernet.do</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Wholesale Extension Services 100Mb Connection</i>
<b>Market:</b> <i>Alternative Interface Symmetric Broadband Origination (all bandwidths)</i>
<b>Market review:</b> <i>Review of the retail leased lines, symmetric broadband origination and wholesale trunk segments markets.</i>
<b>Service Offering:</b>  <b><u>Outline of Service</u></b>  <b><i>Wholesale Extension Service (WES) –</i></b> <i>High speed, point to point data circuits which are available 24 hours, 365 days per year which are run over fibre to provide a secure link between a third party customer site and the communication providers network.</i>  <i>This service is available at 100Mb bandwidth.</i>  <i>This service captures the costs of the electronics at either end of the point to point fibre. These fibre costs are within the equivalent rentals component.</i>  <i>Further technical specification can be found within Supplier Information Notes (SIN) SIN documents can be found at: - <a href="http://www.sinet.bt.com">www.sinet.bt.com</a>.</i>  <b><i>LAN extension service (LES) –</i></b> <i>High speed, point to point data circuits which are available 24 hours, 365 days per year which are run over fibre to provide a secure link between two third party customer sites.</i>  <i>This service is available at 100Mb bandwidth.</i>  <i>This service captures the costs of the electronics at either end of the point to point fibre. These fibre costs are within the equivalent rentals component.</i>  <i>Further technical specification can be found within Supplier Information Notes (SIN) SIN documents can be found at: - <a href="http://www.sinet.bt.com">www.sinet.bt.com</a>.</i>
<b>Customer(s):</b> <i>WES: BT Retail and Other Communication Providers, LES: BT Global</i>
Price list entry: <a href="http://www.openreach.co.uk/org/pricing/ethernet.do">http://www.openreach.co.uk/org/pricing/ethernet.do</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Wholesale Extension Services 1000Mb Rental</i>
<b>Market:</b> <i>Alternative Interface Symmetric Broadband Origination (all bandwidths)</i>
<b>Market review:</b> <i>Review of the retail leased lines, symmetric broadband origination and wholesale trunk segments markets.</i>
<b>Service Offering:</b>  <b><u>Outline of Service</u></b>  <b><i>Wholesale Extension Service (WES) –</i></b> <i>High speed, point to point data circuits which are available 24 hours, 365 days per year which are run over fibre to provide a secure link between a third party customer site and the communication providers network.</i>  <i>This service is available at 1000Mb bandwidth.</i>  <i>This service is run over a point to point fibre, the associated electronics at either end are within the equivalent connection component.</i>  <i>Further technical specification can be found within Supplier Information Notes (SIN) SIN documents can be found at: - <a href="http://www.sinet.bt.com">www.sinet.bt.com</a>.</i>  <b><i>LAN extension service (LES) –</i></b> <i>High speed, point to point data circuits which are available 24 hours, 365 days per year which are run over fibre to provide a secure link between two third party customer sites.</i>  <i>This service is available at 1000Mb bandwidth.</i>  <i>This service is run over a point to point fibre, the associated electronics at either end are within the equivalent connection component.</i>  <i>Further technical specification can be found within Supplier Information Notes (SIN) SIN documents can be found at: - <a href="http://www.sinet.bt.com">www.sinet.bt.com</a>.</i>
<b>Customer(s):</b> <i>WES: BT Retail and Other Communication Providers, LES: BT Global</i>
Price list entry: <a href="http://www.openreach.co.uk/orgp/pricing/ethernet.do">http://www.openreach.co.uk/orgp/pricing/ethernet.do</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Wholesale Extension Services 1000Mb Connection</i>
<b>Market:</b> <i>Alternative Interface Symmetric Broadband Origination (all bandwidths)</i>
<b>Market review:</b> <i>Review of the retail leased lines, symmetric broadband origination and wholesale trunk segments markets.</i>
<b>Service Offering:</b>  <b><u>Outline of Service</u></b>  <b><i>Wholesale Extension Service (WES) –</i></b> <i>High speed, point to point data circuits which are available 24 hours, 365 days per year which are run over fibre to provide a secure link between a third party customer site and the communication providers network.</i>  <i>This service is available at 1000Mb bandwidth.</i>  <i>This service captures the costs of the electronics at either end of the point to point fibre. These fibre costs are within the equivalent rentals component.</i>  <i>Further technical specification can be found within Supplier Information Notes (SIN) SIN documents can be found at: - <a href="http://www.sinet.bt.com">www.sinet.bt.com</a>.</i>  <b><i>LAN extension service (LES) –</i></b> <i>High speed, point to point data circuits which are available 24 hours, 365 days per year which are run over fibre to provide a secure link between two third party customer sites.</i>  <i>This service is available at 1000Mb bandwidth.</i>  <i>This service captures the costs of the electronics at either end of the point to point fibre. These fibre costs are within the equivalent rentals component.</i>  <i>Further technical specification can be found within Supplier Information Notes (SIN) SIN documents can be found at: - <a href="http://www.sinet.bt.com">www.sinet.bt.com</a>.</i>
<b>Customer(s):</b> <i>WES: BT Retail and Other Communication Providers, LES: BT Global</i>
Price list entry: <a href="http://www.openreach.co.uk/org/pricing/ethernet.do">http://www.openreach.co.uk/org/pricing/ethernet.do</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Wholesale Extension Services Other Bandwidth Rental</i>
<b>Market:</b> <i>Alternative Interface Symmetric Broadband Origination (all bandwidths)</i>
<b>Market review:</b> <i>Review of the retail leased lines, symmetric broadband origination and wholesale trunk segments markets.</i>
<b>Service Offering:</b> <b><u>Outline of Service</u></b>  <b><i>Wholesale Extension Service (WES)</i></b> – <i>High speed, point to point data circuits which are available 24 hours, 365 days per year which are run over fibre to provide a secure link between a third party customer site and the communication providers network.</i>  <i>This service is available at 155Mb, 622Mb, 2500Mb and 10000Mb bandwidths. This service is run over a point to point fibre, the associated electronics at either end are within the equivalent connection component.</i>  <i>Further technical specification can be found within Supplier Information Notes (SIN) SIN documents can be found at: - <a href="http://www.sinet.bt.com">www.sinet.bt.com</a>.</i>  <b><i>LAN extension service (LES)</i></b> – <i>High speed, point to point data circuits which are available 24 hours, 365 days per year which are run over fibre to provide a secure link between two third party customer sites.</i>  <i>This service is available at 155Mb, 622Mb, 2500Mb and 10000Mb bandwidths. This service is run over a point to point fibre, the associated electronics at either end are within the equivalent connection component.</i>  <i>Further technical specification can be found within Supplier Information Notes (SIN) SIN documents can be found at: - <a href="http://www.sinet.bt.com">www.sinet.bt.com</a>.</i>  <b><i>Backhaul Network Services (BNS)</i></b> - <i>High speed UK network services which are available 24 hours, 365 days per year and are run over fibre</i>  <i>This service is available at 1gE &amp; STM4 bandwidths. This service is run fibre, the associated electronics at either end of the fibres are within the equivalent connection component.</i>  <i>Further technical specification can be found within Supplier Information Notes (SIN) SIN documents can be found at: - <a href="http://www.sinet.bt.com">www.sinet.bt.com</a>.</i>
<b>Customer(s):</b> <i>WES: BT Retail and Other Communication Providers, LES: BT Global</i>
Price list entry: <a href="http://www.openreach.co.uk/orpg/pricing/ethernet.do">http://www.openreach.co.uk/orpg/pricing/ethernet.do</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Wholesale Extension Services Other Bandwidth Connection</i>
<b>Market:</b> <i>Alternative Interface Symmetric Broadband Origination (all bandwidths)</i>
<b>Market review:</b> <i>Review of the retail leased lines, symmetric broadband origination and wholesale trunk segments markets.</i>
<b>Service Offering:</b> <b><u>Outline of Service</u></b>  <i>Wholesale Extension Service (WES) – High speed, point to point data circuits which are available 24 hours, 365 days per year which are run over fibre to provide a secure link between a third party customer site and the communication providers network.</i>  <i>This service is available at 155Mb, 622Mb, 2500Mb and 10000Mb bandwidths. This service captures the costs of the electronics at either end of the point to point fibre. These fibre costs are within the equivalent rentals component.</i>  <i>Further technical specification can be found within Supplier Information Notes (SIN) SIN documents can be found at: - <a href="http://www.sinet.bt.com">www.sinet.bt.com</a>.</i>  <i>LAN extension service (LES) – High speed, point to point data circuits which are available 24 hours, 365 days per year which are run over fibre to provide a secure link between two third party customer sites.</i>  <i>This service is available at 155Mb, 622Mb, 2500Mb and 10000Mb bandwidths. This service captures the costs of the electronics at either end of the point to point fibre. These fibre costs are within the equivalent rentals component.</i>  <i>Further technical specification can be found within Supplier Information Notes (SIN) SIN documents can be found at: - <a href="http://www.sinet.bt.com">www.sinet.bt.com</a>.</i>  <i>Backhaul Network Services (BNS) - High speed UK network services which are available 24 hours, 365 days per year and are run over fibre</i>  <i>This service is available at 1gE &amp; STM4 bandwidths. This service captures the costs of the electronics at either end of the fibres. These fibres costs are within the equivalent rentals component.</i>  <i>Further technical specification can be found within Supplier Information Notes (SIN) SIN documents can be found at: - <a href="http://www.sinet.bt.com">www.sinet.bt.com</a>.</i>
<b>Customer(s):</b> <i>WES: BT Retail and Other Communication Providers, LES: BT Global</i>
Price list entry: <a href="http://www.openreach.co.uk/orpg/pricing/ethernet.do">http://www.openreach.co.uk/orpg/pricing/ethernet.do</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Backhaul Extension Services (BES)100Mb Rental</i>
<b>Market:</b> <i>Alternative Interface Symmetric Broadband Origination (all bandwidths)</i>
<b>Market review:</b> <i>Review of the retail leased lines, symmetric broadband origination and wholesale trunk segments markets.</i>
<b>Service Offering:</b>  <b><u>Outline of Service</u></b>  <i>Backhaul extension Service (BES) - High speed, point to point data circuits which are available 24 hours, 365 days per year which are run over fibre to provide a secure link between a LLU's operators equipment at an unbundled MDF site and a site within an operators own network.</i>  <i>This service is available at 100Mb bandwidth.</i>  <i>This service is run over a point to point fibre, the associated electronics at either end are within the equivalent connection component.</i>  <i>Further technical specification can be found within Supplier Information Notes (SIN) SIN documents can be found at: - <a href="http://www.sinet.bt.com">www.sinet.bt.com</a>.</i>
<b>Customer(s):</b> <i>BT Global</i>
Price list entry: <a href="http://www.openreach.co.uk/orpg/pricing/ethernet.do">http://www.openreach.co.uk/orpg/pricing/ethernet.do</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Backhaul Extension Services (BES) 100Mb Connection</i>
<b>Market:</b> <i>Alternative Interface Symmetric Broadband Origination (all bandwidths)</i>
<b>Market review:</b> <i>Review of the retail leased lines, symmetric broadband origination and wholesale trunk segments markets.</i>
<b>Service Offering:</b>  <b><u>Outline of Service</u></b>  <b><i>Backhaul extension Service (BES) - High speed, point to point data circuits which are available 24 hours, 365 days per year which are run over fibre to provide a secure link between a LLU's operators equipment at an unbundled MDF site and a site within an operators own network.</i></b>  <i>This service is available at 100Mb bandwidth.</i>  <i>This service captures the costs of the electronics at either end of the point to point fibre. These fibre costs are within the equivalent rentals component.</i>  <i>Further technical specification can be found within Supplier Information Notes (SIN) SIN documents can be found at: - <a href="http://www.sinet.bt.com">www.sinet.bt.com</a>.</i>
<b>Customer(s):</b> <i>BT Global</i>
Price list entry: <a href="http://www.openreach.co.uk/orgp/pricing/ethernet.do">http://www.openreach.co.uk/orgp/pricing/ethernet.do</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Backhaul Extension Services (BES)1000Mb Rental</i>
<b>Market:</b> <i>Alternative Interface Symmetric Broadband Origination (all bandwidths)</i>
<b>Market review:</b> <i>Review of the retail leased lines, symmetric broadband origination and wholesale trunk segments markets.</i>
<b>Service Offering:</b>  <b><u>Outline of Service</u></b>  <b><i>Backhaul extension Service (BES) - High speed, point to point data circuits which are available 24 hours, 365 days per year which are run over fibre to provide a secure link between a LLU's operators equipment at an unbundled MDF site and a site within an operators own network.</i></b>  <i>This service is available at 1000Mb bandwidth.</i>  <i>This service is run over a point to point fibre, the associated electronics at either end are within the equivalent connection component.</i>  <i>Further technical specification can be found within Supplier Information Notes (SIN) SIN documents can be found at: - <a href="http://www.sinet.bt.com">www.sinet.bt.com</a>.</i>
<b>Customer(s):</b> <i>BT Global</i>
Price list entry: <a href="http://www.openreach.co.uk/orpg/pricing/ethernet.do">http://www.openreach.co.uk/orpg/pricing/ethernet.do</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Backhaul Extension Services (BES)1000Mb Connection</i>
<b>Market:</b> <i>Alternative Interface Symmetric Broadband Origination (all bandwidths)</i>
<b>Market review:</b> <i>Review of the retail leased lines, symmetric broadband origination and wholesale trunk segments markets.</i>
<b>Service Offering:</b>  <b><u>Outline of Service</u></b>  <b><i>Backhaul extension Service (BES) - High speed, point to point data circuits which are available 24 hours, 365 days per year which are run over fibre to provide a secure link between a LLU's operators equipment at an unbundled MDF site and a site within an operators own network.</i></b>  <i>This service is available at 1000Mb bandwidth.</i>  <i>This service captures the costs of the electronics at either end of the point to point fibre. These fibre costs are within the equivalent rentals component.</i>  <i>Further technical specification can be found within Supplier Information Notes (SIN) SIN documents can be found at: - <a href="http://www.sinet.bt.com">www.sinet.bt.com</a>.</i>
<b>Customer(s):</b> <i>BT Global</i>
<b>Price list entry:</b> <a href="http://www.openreach.co.uk/orpg/pricing/ethernet.do">http://www.openreach.co.uk/orpg/pricing/ethernet.do</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Backhaul Extension Services (BES) Other Bandwidth Rental</i>
<b>Market:</b> <i>Alternative Interface Symmetric Broadband Origination (all bandwidths)</i>
<b>Market review:</b> <i>Review of the retail leased lines, symmetric broadband origination and wholesale trunk segments markets.</i>
<b>Service Offering:</b>  <b><u>Outline of Service</u></b>  <b><i>Backhaul extension Service (BES) - High speed, point to point data circuits which are available 24 hours, 365 days per year which are run over fibre to provide a secure link between a LLU's operators equipment at an unbundled MDF site and a site within an operators own network.</i></b>  <i>This service is available at 10Mb 155Mb and 622Mb bandwidths.</i>  <i>This service is run over a point to point fibre, the associated electronics at either end are within the equivalent connection component.</i>  <i>Further technical specification can be found within Supplier Information Notes (SIN) SIN documents can be found at: - <a href="http://www.sinet.bt.com">www.sinet.bt.com</a>.</i>
<b>Customer(s):</b> <i>BT Global</i>
<b>Price list entry:</b> <a href="http://www.openreach.co.uk/orpg/pricing/ethernet.do">http://www.openreach.co.uk/orpg/pricing/ethernet.do</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Backhaul Extension Services (BES) Other Bandwidth Connection</i>
<b>Market:</b> <i>Alternative Interface Symmetric Broadband Origination (all bandwidths)</i>
<b>Market review:</b> <i>Review of the retail leased lines, symmetric broadband origination and wholesale trunk segments markets.</i>
<b>Service Offering:</b>  <b><u>Outline of Service</u></b>  <b><i>Backhaul extension Service (BES) - High speed, point to point data circuits which are available 24 hours, 365 days per year which are run over fibre to provide a secure link between a LLU's operators equipment at an unbundled MDF site and a site within an operators own network.</i></b>  <i>This service is available at 10Mb 155Mb and 622Mb bandwidths.</i>  <i>This service captures the costs of the electronics at either end of the point to point fibre. These fibre costs are within the equivalent rentals component.</i>  <i>Further technical specification can be found within Supplier Information Notes (SIN) SIN documents can be found at: - <a href="http://www.sinet.bt.com">www.sinet.bt.com</a>.</i>
<b>Customer(s):</b> <i>BT Global</i>
<b>Price list entry:</b> <a href="http://www.openreach.co.uk/orpg/pricing/ethernet.do">http://www.openreach.co.uk/orpg/pricing/ethernet.do</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>External Backhaul network services all bandwidth rental</i>
<b>Market:</b> <i>Alternative Interface Symmetric Broadband Origination (all bandwidths)</i>
<b>Market review:</b> <i>Review of the retail leased lines, symmetric broadband origination and wholesale trunk segments markets.</i>
<b>Service Offering:</b>  <b><u>Outline of Service</u></b>  <b><i>Backhaul Network Service (BNS)</i></b> - Provides a link between the digital local exchange (DLE) co-mingling site(s) and an aggregation point at a BT location within a major conurbation.  <i>This service is available at 1gE &amp; STM4 circuits/spoke bandwidths.</i>  <i>The product provides a hub and spoke configuration, this service captures the fibre and duct costs, the associated electronics at either end are within the equivalent connection component.</i>  <i>Further technical specification can be found within Supplier Information Notes (SIN) SIN documents can be found at: - <a href="http://www.sinet.bt.com">www.sinet.bt.com</a>.</i>
<b>Customer(s):</b> <i>BT Global</i>
<b>Price list entry:</b> <a href="http://www.openreach.co.uk/org/pricing/ethernet.do">http://www.openreach.co.uk/org/pricing/ethernet.do</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>External Backhaul network services all bandwidth connection</i>
<b>Market:</b> <i>Alternative Interface Symmetric Broadband Origination (all bandwidths)</i>
<b>Market review:</b> <i>Review of the retail leased lines, symmetric broadband origination and wholesale trunk segments markets.</i>
<b>Service Offering:</b>  <b><u>Outline of Service</u></b>  <b><i>Backhaul Network Service (BNS)</i></b> - <i>Provides a link between the digital local exchange (DLE) co-mingling site(s) and an aggregation point at a BT location within a major conurbation.</i>  <i>This service is available at 1gE &amp; STM4 circuits/spoke bandwidths.</i>  <i>The product provides a hub and spoke configuration, this service captures the electronics costs, the associated fibre and duct costs are within the equivalent rental component.</i>  <i>Further technical specification can be found within Supplier Information Notes (SIN) SIN documents can be found at: - <a href="http://www.sinet.bt.com">www.sinet.bt.com</a>.</i>
<b>Customer(s):</b> <i>BT Global</i>
<b>Price list entry:</b> <a href="http://www.openreach.co.uk/org/pricing/ethernet.do">http://www.openreach.co.uk/org/pricing/ethernet.do</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Mainlink Rental</i>
<b>Market:</b> <i>Alternative Interface Symmetric Broadband Origination (all bandwidths)</i>
<b>Market review:</b> <i>Review of the retail leased lines, symmetric broadband origination and wholesale trunk segments markets.</i>
<b>Service Offering:</b>  <b><u>Outline of Service</u></b>  <i>Fibre between BT serving exchanges used to connect the corresponding A-end Customer Site and B-end Customer Site at different serving exchanges.</i>  <i>Further technical specification can be found within Supplier Information Notes (SIN) SIN documents can be at: - <a href="http://www.sinet.bt.com">www.sinet.bt.com</a>.</i>
<b>Customer(s):</b> <i>BT Global, Retail and Other Communication Providers.</i>
Price list entry: Section 3.1.2 ( <a href="http://www.openreach.co.uk/orpg/pricing/ethernet.do">http://www.openreach.co.uk/orpg/pricing/ethernet.do</a> )

## BT Wholesale Catalogue

<b>Service:</b> <i>Excess construction charges</i>
<b>Market:</b> <i>Alternative Interface Symmetric Broadband Origination (all bandwidths)</i>
<b>Market review:</b> <i>Review of the retail leased lines, symmetric broadband origination and wholesale trunk segments markets.</i>
<b>Service Offering:</b>  <b><u>Outline of Service</u></b>  <i>Excess Construction Charges (ECCs) are raised to cover the cost of providing any additional construction work required to provide a BES WES or WEES Ethernet product.</i>  <i>There are different aspects of ECCs. They include the fibre itself, ducting, tray work and labour costs. Miscellaneous costs such as road closures, traffic control and recovery of plant are also applied where such works are required.</i>
<b>Customer(s):</b> <i>BT Global</i>
<b>Price list entry:</b> <a href="http://www.openreach.co.uk/orpg/pricing/ethernet.do">http://www.openreach.co.uk/orpg/pricing/ethernet.do</a>

## BT Wholesale Catalogue

<b>Service: Partial and Private circuits 2mbit/s - Trunk</b>
<b>Market: Wholesale Trunk segments</b>
<b>Market review:</b> <i>Review of the retail leased lines, symmetric broadband origination and wholesale trunk segments markets.</i>
<b>Service Offering:</b>  <i>A Partial and Private Circuit operating at 2mbit/s is a wholesale circuit from a Third Party Customer Link to a Public Electronic Communications Networks' (PECN) Point of Handover (PoH).</i>  <i>The trunk service will be from the nearest SDH BT servicing node to the Third Party Customer site across the Local Access Network to the terminating equipment at the serving exchange.</i>  <b><u>Outline of Service</u></b> <i>The service covers the distance from the nearest SDH BT Serving Node to Third Party customer site across the BT network to an agreed PECN Point of Handover.</i>  <i>Charges for this service are per km.</i>
<b>Customer(s):</b> <i>BT Retail and Other Communication Providers</i>
<b>Price list entry:</b> <i>Section B8</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service: Partial and Private circuits 34/45mbit/s - Trunk</b>
<b>Market: Wholesale trunk segments</b>
<b>Market review:</b> <i>Review of the retail leased lines, symmetric broadband origination and wholesale trunk segments markets.</i>
<b>Service Offering:</b>  <i>A Partial and Private Circuit operating at 34/45mbit/s is a wholesale circuit from a Third Party Customer Link to a Public Electronic Communications Networks'(PECN) Point of Handover (PoH).</i>  <i>The trunk service will be from the nearest SDH BT servicing node to the Third Party Customer site across the Local Access Network to the terminating equipment at the serving exchange.</i>  <b><u>Outline of Service</u></b> <i>The service covers the distance from the nearest SDH BT Serving Node to Third Party customer site across the BT network to an agreed PECN Point of Handover.</i>  <i>Charges for this service are per km.</i>
<b>Customer(s):</b> <i>BT Retail and Other Communication Providers</i>
<b>Price list entry:</b> <i>Section B8</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service: Partial and Private circuits 140/155mbit/s - Trunk</b>
<b>Market: Wholesale trunk segments</b>
<b>Market review:</b> <i>Review of the retail leased lines, symmetric broadband origination and wholesale trunk segments markets.</i>
<b>Service Offering:</b>  <i>A Partial and Private Circuit operating at 140/155mbit/s is a wholesale circuit from a Third Party Customer Link to a Public Electronic Communications Networks' (PECN) Point of Handover (PoH).</i>  <i>The trunk service will be from the nearest SDH BT servicing node to the Third Party Customer site across the Local Access Network to the terminating equipment at the serving exchange.</i>  <b><u>Outline of Service</u></b> <i>The service covers the distance from the nearest SDH BT Serving Node to Third Party customer site across the BT network to an agreed PECN Point of Handover.</i>  <i>Charges for this service are per km.</i>
<b>Customer(s):</b> <i>BT Retail and Other Communication Providers</i>
<b>Price list entry:</b> <i>Section B8</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service: Partial and Private circuits 622mbit/s - Trunk</b>
<b>Market: Wholesale trunk segments</b>
<b>Market review:</b> <i>Review of the retail leased lines, symmetric broadband origination and wholesale trunk segments markets.</i>
<b>Service Offering:</b>  <i>A Partial and Private Circuit operating at 622 mbit/s is a wholesale circuit from a Third Party Customer Link to a Public Electronic Communications Networks' (PECN) Point of Handover (PoH).</i>  <i>The trunk service will be from the nearest SDH BT servicing node to the Third Party Customer site across the Local Access Network to the terminating equipment at the serving exchange.</i>  <b><u>Outline of Service</u></b> <i>The service covers the distance from the nearest SDH BT Serving Node to Third Party customer site across the BT network to an agreed PECN Point of Handover.</i>  <i>Charges for this service are per km.</i>
<b>Customer(s):</b> <i>BT Retail and Other Communication Providers</i>
<b>Price list entry:</b> <i>Section B8</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Protected Path Variants and Resilience</i>
<b>Market:</b> <i>Traditional interface symmetric broadband origination (above 8Mbit/s up to and including 155Mbit/s)</i>
<b>Market review:</b> <i>Review of the retail leased lines, symmetric broadband origination and wholesale trunk segments markets</i>
<b><u>Outline of Service</u></b> <i>BT employs a complex set of routing rules within its network to ensure Quality of Service levels are maintained and assets are utilised efficiently. Communications Providers have a choice of PPC circuit protection levels to help them meet their end user's requirements.</i>  <i>The Service includes the option of having a resilient path provided or monitoring service that enables pairs or groups of circuits to be routed along different paths through the BT network</i>
<b><u>Key Features and Availability</u></b> <i><b>Protected Path Variant 1</b> provides a resilient path from the Third Party customer site to a single Point of Handover. It features two access paths from the Third Party customer site to two BT serving nodes (i.e. dual path, dual parent). Resilience is then provided across the core SDH network to the single PoH at the Communication Provider's network.</i>  <i><b>Protected Path Variant 2</b> provides a resilient path from the Third Party customer site to a pair of handover points, with no single point of failure. It features a variant of Drop and Continue Interworking+ (D&amp;CI) functionality which will be configured in the BT Network and should be configured in the Communications Provider's network to deliver the assured Quality of Service to the end user. It also features two access paths from the Third Party customer Site to two BT Serving Nodes (i.e. dual path, dual parent). Resilience is then provided across the core SDH network to the two PoHs at the Communications Provider's network.</i>  <i><b>PPC Assured Resilience</b> is a monitoring service that enables pairs or groups of circuits to be routed along different paths through the BT network. It ensures that no single event could cause failure to both circuits in a pair or all circuits in a group. The circuit paths are monitored to ensure no compromise occurs due to engineering work on the core BT network. This enables specific circuits to benefit from a level of resilience above BT's standard offering for these circuits. Assured Resilience is not available for Protected Path Variants 1 and 2.</i>
<b>Customer(s):</b> <i>BT Retail and Other Communication Providers</i>
<b>Price list entry:</b> <i>Section B8.03</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Customer Sited Handover - Connection</i>
<b>Market:</b> <i>Technical areas (Point of Handover)</i>
<b>Market review:</b> <i>Review of the retail leased lines, symmetric broadband origination and wholesale trunk segments markets</i>
<b>Service Offering:</b>  <i>The Point of Handover (PoH) is a high bandwidth connection between the PECN's network and the serving SDH node in the BT network.</i>  <i>The high-capacity PoH infrastructure is supplied as Customer Sited Handover (CSH). Multiple circuits can be handed over at a single PoH. When providing CSH BT delivers services to the premises of its wholesale customers.</i>  <i>Also includes:</i>  <i>The PoH infrastructure charge is based on the infrastructure build costs for the CSH and includes a small annual rental charge. Specifically it includes maintenance and depreciation of Add Drop Muxes provided for PoH.</i>
<b>Customer(s):</b> <i>BT Retail and Other Communication Providers</i>
<b>Price list entry:</b> <i>Section B8.01</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Customer Sited Handover - Rental</i>
<b>Market:</b> <i>Technical areas (Point of Handover)</i>
<b>Market review:</b> <i>Review of the retail leased lines, symmetric broadband origination and wholesale trunk segments markets</i>
<p><i>The Point of Handover (PoH) is a high bandwidth connection between the PECN's network and the serving SDH node in the BT network.</i></p> <p><i>The high-capacity PoH infrastructure is supplied as Customer Sited Handover (CSH). Multiple circuits can be handed over at a single PoH. When providing CSH BT delivers services to the premises of its wholesale customers.</i></p> <p><i>Also includes:</i></p> <p><i>The PoH infrastructure charge is based on the infrastructure build costs for the CSH and includes a small annual rental charge. Specifically it includes maintenance and depreciation of Add Drop Muxes provided for PoH.</i></p>
<b>Customer(s):</b> <i>BT Retail and Other Communication Providers</i>
<b>Price list entry:</b> <i>Section B8.01</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>In Span Handover – Connection</i>
<b>Market:</b> <i>Technical areas (Point of Handover)</i>
<b>Market review:</b> <i>Review of the retail leased lines, symmetric broadband origination and wholesale trunk segments markets</i>
<b>Service Offering:</b>  <i>The Point of Handover (PoH) is a high bandwidth connection between the PECN's network and the serving SDH node in the BT network.</i>  <i>The high-capacity PoH infrastructure is supplied as either In-Span Handover (ISH), In-Span Handover Extension (ISH Extn) Multiple circuits can be handed over at a single PoH.</i>  <i>When providing ISH, BT and the wholesale customer connect their networks at a notional mid-point. Circuits are available at the following bandwidths: 64Kbit/s; n x 64Kbit/s; 1Mbit/s; 2Mbit/s; 34Mbit/s; 45Mbit/s; 140Mbit/s and 155Mbit/s</i>  <i>Also includes:</i>  <i>The PoH infrastructure charge is based on the infrastructure build costs for either the ISH or CSH and includes a small annual rental charge. Specifically it includes maintenance and depreciation of Add Drop Muxes provided for PoH.</i>
<b>Customer(s):</b> <i>BT Retail and Other Communication Providers</i>
<b>Price list entry:</b> <i>Section B8.01</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>In Span Handover – Rental</i>
<b>Market:</b> <i>Technical areas (Point of Handover)</i>
<b>Market review:</b> <i>Review of the retail leased lines, symmetric broadband origination and wholesale trunk segments markets</i>
<b>Service Offering:</b>  <i>The Point of Handover (PoH) is a high bandwidth connection between the PECN's network and the serving SDH node in the BT network.</i>  <i>The high-capacity PoH infrastructure is supplied as either In-Span Handover (ISH), In-Span Handover Extension (ISH Extn) Multiple circuits can be handed over at a single PoH.</i>  <i>When providing ISH, BT and the wholesale customer connect their networks at a notional mid-point. Circuits are available at the following bandwidths: 64Kbit/s; n x 64Kbit/s; 1Mbit/s; 2Mbit/s; 34Mbit/s; 45Mbit/s; 140Mbit/s and 155Mbit/s</i>  <i>Also includes:</i>  <i>The PoH infrastructure charge is based on the infrastructure build costs for either the ISH or CSH and includes a small annual rental charge. Specifically it includes maintenance and depreciation of Add Drop Muxes provided for PoH.</i>
<b>Customer(s):</b> <i>BT Retail and Other Communication Providers</i>
<b>Price list entry:</b> <i>Section B8.01</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Internal IPstream End User Access Rental</i>
<b>Market:</b> <i>Asymmetric broadband origination in the UK</i>
<b>Market review:</b> <i>Review of the wholesale broadband access market.</i>
<b>Service Offering:</b>  <i>Asymmetrical Digital Subscriber Line Rental for the access network.</i>  <i>Includes:</i>  <i>a) DSLAM (Digital Subscriber Line Access Multiplexer)</i> <i>b) Maintenance of the Access Local Loop</i> <i>c) Line test equipment</i> <i>d) Rental and maintenance of the exchange frame</i>
<b>Customer(s):</b> <i>BT Retail and BT Global Services</i>
<b>Price list entry:</b> <i>Section 44</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>External IPstream End User Access Rental</i>
<b>Market:</b> <i>Asymmetric broadband origination in the UK</i>
<b>Market review:</b> <i>Review of the wholesale broadband access market.</i>
<b>Service Offering:</b>  <i>Asymmetrical Digital Subscriber Line Rental for the access network.</i>  <i>Includes:</i>  <i>a) DSLAM (Digital Subscriber Line Access Multiplexer)</i> <i>b) Maintenance of the Access Local Loop</i> <i>c) Line test equipment</i> <i>d) Rental and maintenance of the exchange frame</i>
<b>Customer(s):</b> <i>Numerous external communications providers</i>
<b>Price list entry:</b> <i>Section 44</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Internal Datastream End User Access Rental</i>
<b>Market:</b> <i>Asymmetric broadband origination in the UK</i>
<b>Market review:</b> <i>Review of the wholesale broadband access market.</i>
<b>Service Offering:</b>  <i>Asymmetrical Digital Subscriber Line Rental for the access network.</i>  <i>Includes:</i>  <i>a) DSLAM (Digital Subscriber Line Access Multiplexer)</i> <i>b) Maintenance of the Access Local Loop</i> <i>c) Line test equipment</i> <i>d) Rental and maintenance of the exchange frame</i>
<b>Customer(s):</b> <i>BT Retail and BT Global Services</i>
<b>Price list entry:</b> <i>Section 44</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>External Datastream End User Access Rental</i>
<b>Market:</b> <i>Asymmetric broadband origination in the UK</i>
<b>Market review:</b> <i>Review of the wholesale broadband access market.</i>
<b>Service Offering:</b>  <i>Asymmetrical Digital Subscriber Line Rental for the access network.</i>  <i>Includes:</i>  <i>a) DSLAM (Digital Subscriber Line Access Multiplexer)</i> <i>b) Maintenance of the Access Local Loop</i> <i>c) Line test equipment</i> <i>d) Rental and maintenance of the exchange frame</i>
<b>Customer(s):</b> <i>Numerous external communications providers</i>
<b>Price list entry:</b> <i>Section 44</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

<b>Service:</b> <i>Internal IPstream End User Access Connection</i>
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## BT Wholesale Catalogue

<b>Market:</b> <i>Asymmetric broadband origination in the UK</i>
<b>Market review:</b> <i>Review of the wholesale broadband access market.</i>
<b>Service Offering:</b>  <i>Asymmetrical Digital Subscriber Line Connection for the access network. Enables Service Providers access to multiple End Users via Broadband enabled Local exchanges.</i>  <i>Includes:</i> <ul style="list-style-type: none"><li><i>a) Jumpering</i></li><li><i>b) Customer Services Management</i></li><li><i>c) Developments</i></li><li><i>d) Overheads</i></li><li><i>e) Field Engineering costs – e.g. “DeDac”</i></li></ul>
<b>Customer(s):</b> <i>BT Retail and BT Global Services</i>
<b>Price list entry:</b> <i>Section 44</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>External IPstream End User Access Connection</i>
<b>Market:</b> <i>Asymmetric broadband origination in the UK</i>
<b>Market review:</b> <i>Review of the wholesale broadband access market.</i>
<b>Service Offering:</b>  <i>Asymmetrical Digital Subscriber Line Connection for the access network. Enables Service Providers access to multiple End Users via Broadband enabled Local exchanges.</i>  <i>Includes:</i> <ul style="list-style-type: none"><li><i>a) Jumpering</i></li><li><i>b) Customer Services Management</i></li><li><i>c) Developments</i></li><li><i>d) Overheads</i></li><li><i>e) Field Engineering costs – e.g. “DeDac”</i></li></ul>
<b>Customer(s):</b> <i>Numerous external communications providers</i>
<b>Price list entry:</b> <i>Section 44</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Internal Datastream End User Access Connection</i>
<b>Market:</b> <i>Asymmetric broadband origination in the UK</i>
<b>Market review:</b> <i>Review of the wholesale broadband access market.</i>
<b>Service Offering:</b>  <i>Asymmetrical Digital Subscriber Line Connection for the access network. Enables Service Providers access to multiple End Users via Broadband enabled Local exchanges. Provides “downstream” End User service options of: 500kbits, 1Mb and 2Mb</i>  <i>Includes:</i> <ul style="list-style-type: none"><li><i>a) Jumpering</i></li><li><i>b) Customer Services Management</i></li><li><i>c) Developments</i></li><li><i>d) Overheads</i></li><li><i>e) Field Engineering costs – e.g. “DeDac”</i></li></ul>
<b>Customer(s):</b> <i>BT Retail</i>
<b>Price list entry:</b> <i>Section 44</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>External Datastream End User Access Connection</i>
<b>Market:</b> <i>Asymmetric broadband origination in the UK</i>
<b>Market review:</b> <i>Review of the wholesale broadband access market.</i>
<b>Service Offering:</b>  <i>Asymmetrical Digital Subscriber Line Connection for the access network. Enables Service Providers access to multiple End Users via Broadband enabled Local exchanges. Provides “downstream” End User service options of: 500kbits, 1Mb and 2Mb</i>  <i>Includes:</i> <ul style="list-style-type: none"><li><i>a) Jumpering</i></li><li><i>b) Customer Services Management</i></li><li><i>c) Developments</i></li><li><i>d) Overheads</i></li><li><i>e) Field Engineering costs – e.g. “DeDac”</i></li></ul>
<b>Customer(s):</b> <i>Numerous external communications providers</i>
<b>Price list entry:</b> <i>Section 44</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Internal Virtual Path Handover</i>
<b>Market:</b> <i>Asymmetric broadband origination in the UK</i>
<b>Market review:</b> <i>Review of the wholesale broadband access market.</i>
<b>Service Offering:</b>  <i>Asymmetrical Digital Subscriber Line Rental for the access network.</i>  <i>Includes:</i> <i>a) Broadband Backhaul Circuits</i>
<b>Customer(s):</b> <i>BT Retail</i>
<b>Price list entry:</b> <i>Section 44</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>External Virtual Path Handover</i>
<b>Market:</b> <i>Asymmetric broadband origination in the UK</i>
<b>Market review:</b> <i>Review of the wholesale broadband access market.</i>
<b>Service Offering:</b>  <i>Asymmetrical Digital Subscriber Line Rental for the access network.</i>  <i>Includes:</i>  <i>a) Broadband Backhaul Circuits</i>
<b>Customer(s):</b> <i>Numerous external CPs</i>
<b>Price list entry:</b> <i>Section 44</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Internal Backhaul Circuits (excluding Virtual Paths)</i>
<b>Market:</b> <i>Asymmetric broadband origination in the UK</i>
<b>Market review:</b> <i>Review of the wholesale broadband access market.</i>
<b>Service Offering:</b>  <i>Asymmetrical Digital Subscriber Line Rental for the access network.</i>  <i>Includes:</i>  <i>a) Broadband Backhaul Circuits</i>
<b>Customer(s):</b> <i>Numerous external CPs</i>
<b>Price list entry:</b> <i>Section 44</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Ancillary Charges (migration, cessation, re-grades)</i>
<b>Market:</b> <i>Asymmetric broadband origination in the UK</i>
<b>Market review:</b> <i>Review of the wholesale broadband access market.</i>
<b>Service Offering:</b>  <i>A number of services including cessation, migration and re-grades of Asymmetrical Digital Subscriber Lines for the access network</i>  <i>Includes:</i> <ul style="list-style-type: none"><li><i>a) Jumpering</i></li><li><i>b) Customer Services Management</i></li><li><i>c) Developments</i></li><li><i>d) Overheads</i></li><li><i>e) Field Engineering costs – e.g. “DeDac”</i></li><li><i>f) Broadband backhaul circuits</i></li></ul>
<b>Customer(s):</b> <i>Numerous external CPs and BT Retail</i>
<b>Price list entry:</b> <i>Section 44</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Broadband conveyance in the UK</i>
<b>Market:</b> <i>Broadband conveyance in the UK</i>
<b>Market review:</b> <i>Review of the wholesale broadband access market.</i>
<b>Service Offering:</b>  <i>Broadband conveyance in the UK (Datastream). Provides connectivity from the DSLAM in the Local Exchange to a Datastream Point Of Presence (POP) in BT's high speed data network.</i>  <i>Includes:</i> <ul style="list-style-type: none"><li><i>a) Backhaul – STM 1 ~ STM 16</i></li><li><i>b) Virtual Paths – ATM switches and associated transmission of data.</i></li><li><i>c) Customer Access Link / In Span Handover</i></li></ul>
<b>Customer(s):</b> <i>BT Retail</i>
<b>Price list entry:</b> <i>Section 36 Part 4 (Wholesale Service Provider Price List)</i> <a href="http://www.btwholesale.com/pricing">http://www.btwholesale.com/pricing</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Wholesale residential ISDN2 internal service connections</i>
<b>Market:</b> <i>Wholesale residential ISDN2 exchange line services</i>
<b>Market review:</b> <i>Fixed narrowband wholesale exchange line, call origination, conveyance &amp; transit.</i>
<b>Service Offering:</b>  <i>Connection of ISDN2 Residential exchange line(s) within defined service parameters. ISDN2 is a digital service that transforms the existing phone line by splitting its capacity into 2 channels allowing dual access.</i>  <i>Includes:</i>  <i>a) All direct engineering activity and commissioning to complete connection to the customer premises from the Local Exchange concentrator</i> <i>b) Engineering and network support activity</i> <i>c) Sales, General &amp; Administration</i>
<b>Customer(s):</b> <i>BT Retail</i>
<b>Price list entry:</b> <a href="http://www.openreach.co.uk/orpg/pricing/wlrprices.do">http://www.openreach.co.uk/orpg/pricing/wlrprices.do</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Wholesale residential ISDN2 internal service rentals</i>
<b>Market:</b> <i>Wholesale residential ISDN2 exchange line services</i>
<b>Market review:</b> <i>Fixed narrowband wholesale exchange line, call origination, conveyance &amp; transit.</i>
<b>Service Offering:</b>  <i>Rental, repair and maintenance of ISDN2 Residential exchange line(s) within defined service parameters. ISDN2 is a digital service that transforms the existing phone line by splitting its capacity into 2 channels allowing dual access.</i>  <i>Includes:</i>  <ul style="list-style-type: none"><li><i>a) All direct engineering activity to complete maintenance to the customer premises from the Local Exchange concentrator</i></li><li><i>b) Engineering and network support activity</i></li><li><i>c) Reactive &amp; preventative maintenance including line testing &amp; fault handling</i></li><li><i>d) Sales, General &amp; Administration</i></li><li><i>e) Usage of capital equipment required to make the physical connection from the customers premises to the local exchange concentrator (NTE, dropwire, D-side and E-side cabling, main distribution frame and line card)</i></li></ul>
<b>Customer(s):</b> <i>BT Retail</i>
<b>Price list entry:</b> <a href="http://www.openreach.co.uk/orpg/pricing/wlrprices.do">http://www.openreach.co.uk/orpg/pricing/wlrprices.do</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Wholesale residential external service rentals</i>
<b>Market:</b> <i>Wholesale residential ISDN2 exchange line services</i>
<b>Market review:</b> <i>Fixed narrowband wholesale exchange line, call origination, conveyance &amp; transit.</i>
<b>Service Offering:</b>  <i>Rental, repair and maintenance of ISDN2 Residential exchange line(s) within defined service parameters. ISDN2 is a digital service that transforms the existing phone line by splitting its capacity into 2 channels allowing dual access.</i>  <i>Includes:</i>  <i>a) All direct engineering activity to complete maintenance to the customer premises from the Local Exchange concentrator</i> <i>b) Engineering and network support activity</i> <i>c) Reactive &amp; preventative maintenance including line testing &amp; fault handling</i> <i>d) Sales, General &amp; Administration</i>
<b>Customer(s):</b> <i>Service Providers</i>
<b>Price list entry:</b> <a href="http://www.openreach.co.uk/orpg/pricing/wlrprices.do">http://www.openreach.co.uk/orpg/pricing/wlrprices.do</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Wholesale business ISDN30 internal service connections</i>
<b>Market:</b> <i>Wholesale business ISDN30 exchange line services</i>
<b>Market review:</b> <i>Fixed narrowband wholesale exchange line, call origination, conveyance &amp; transit.</i>
<b>Service Offering:</b>  <i>Connection of ISDN30 digital exchange line(s) within defined service parameters. ISDN30 is a digital service that transforms the existing phone line by splitting its capacity channels allowing multiple access.</i>  <i>Includes:</i>  <ul style="list-style-type: none"><li><i>a) All direct engineering activity and commissioning to complete connection to the customer premises from the Local Exchange concentrator</i></li><li><i>b) Engineering and network support activity</i></li><li><i>c) Specific Sales, General &amp; Administration</i></li></ul>
<b>Customer(s):</b> <i>BT Retail</i>
<b>Price list entry:</b> <a href="http://www.openreach.co.uk/orpg/pricing/wlrprices.do">http://www.openreach.co.uk/orpg/pricing/wlrprices.do</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Wholesale business ISDN30 internal service rentals</i>
<b>Market:</b> <i>Wholesale business ISDN30 exchange line services</i>
<b>Market review:</b> <i>Fixed narrowband wholesale exchange line, call origination, conveyance &amp; transit.</i>
<b>Service Offering:</b>  <i>Maintenance of ISDN30 digital exchange line(s) within defined service parameters. ISDN30 is a digital service that transforms the existing phone line by splitting its capacity channels allowing multiple access.</i>  <i>Includes:</i>  <ul style="list-style-type: none"><li><i>a) Engineering and network support activity</i></li><li><i>b) Reactive &amp; preventative maintenance including line testing &amp; fault handling</i></li><li><i>c) Specific Sales, General &amp; Administration</i></li></ul>
<b>Customer(s):</b> <i>BT Retail</i>
<b>Price list entry:</b> <a href="http://www.openreach.co.uk/orpg/pricing/wlrprices.do">http://www.openreach.co.uk/orpg/pricing/wlrprices.do</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Wholesale business ISDN30 external service connections</i>
<b>Market:</b> <i>Wholesale business ISDN30 exchange line services</i>
<b>Market review:</b> <i>Fixed narrowband wholesale exchange line, call origination, conveyance &amp; transit.</i>
<b>Service Offering:</b>  <i>Connection of ISDN30 digital exchange line(s) within defined service parameters. ISDN30 is a digital service that transforms the existing phone line by splitting it's capacity channels allowing multiple access</i>  <i>Includes:</i>  <ul style="list-style-type: none"><li><i>a) All direct engineering activity and commissioning to complete connection to the customer premises from the Local Exchange concentrator</i></li><li><i>b) Engineering and network support activity</i></li><li><i>c) Order handling and progression</i></li><li><i>d) Sales, General &amp; Administration</i></li></ul>
<b>Customer(s):</b> <i>Service Providers</i>
<b>Price list entry:</b> <a href="http://www.openreach.co.uk/orpg/pricing/wlrprices.do">http://www.openreach.co.uk/orpg/pricing/wlrprices.do</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Wholesale business ISDN30 external service rentals</i>
<b>Market:</b> <i>Wholesale business ISDN30 exchange line services</i>
<b>Market review:</b> <i>Fixed narrowband wholesale exchange line, call origination, conveyance &amp; transit.</i>
<b>Service Offering:</b>  <i>Rental, repair and maintenance of ISDN30 digital exchange line(s) within defined service parameters. ISDN30 is a digital service that transforms the existing phone line by splitting it's capacity channels allowing multiple access</i>  <i>Includes:</i>  <i>a) All direct engineering activity to complete maintenance to the customer premises from the Local Exchange concentrator</i> <i>b) Engineering and network support activity</i> <i>c) Reactive &amp; preventative maintenance including line testing &amp; fault handling</i> <i>d) Sales, General &amp; Administration</i>
<b>Customer(s):</b> <i>Service Providers</i>
<b>Price list entry:</b> <a href="http://www.openreach.co.uk/orpg/pricing/wlrprices.do">http://www.openreach.co.uk/orpg/pricing/wlrprices.do</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Wholesale business ISDN30 internal service takeovers</i>
<b>Market:</b> <i>Wholesale business ISDN30 exchange line services</i>
<b>Market review:</b> <i>Fixed narrowband wholesale exchange line, call origination, conveyance &amp; transit.</i>
<b>Service Offering:</b>  <i>Takeover of previously stopped exchange lines.</i>  <i>Includes:</i>  <i>a) Instances of where SP's request a new provision but BT can start a stopped line</i>
<b>Customer(s):</b> <i>BT Retail</i>
<b>Price list entry:</b> <a href="http://www.openreach.co.uk/orpg/pricing/wlrprices.do">http://www.openreach.co.uk/orpg/pricing/wlrprices.do</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>Wholesale business ISDN30 external service transfers</i>
<b>Market:</b> <i>Wholesale business ISDN30 exchange line services</i>
<b>Market review:</b> <i>Fixed narrowband wholesale exchange line, call origination, conveyance &amp; transit.</i>
<b>Service Offering:</b>  <i>Transfer between Service Providers of an ISDN30 business exchange line(s) within defined service parameters. ISDN30 is a digital service that transforms the existing phone line by splitting it's capacity channels allowing multiple access.</i>  <i>Includes:</i>  <i>a) All direct engineering activity to complete transfer of the line(s) from SP to SP</i> <i>b) Engineering and network support activity</i> <i>c) Sales, General &amp; Administration</i>
<b>Customer(s):</b> <i>Service Providers</i>
<b>Price list entry:</b> <a href="http://www.openreach.co.uk/orpg/pricing/wlrprices.do">http://www.openreach.co.uk/orpg/pricing/wlrprices.do</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>MPF Connections (External)</i>
<b>Market:</b> <i>Wholesale local access</i>
<b>Market review:</b> <i>Review of the wholesale broadband access market.</i>
<b>Service Offering:</b>  <i>Provision of two wire point to point metallic transmission path extending from Network terminating point at the End User premises to the Line side of the MDF.</i>
<b>Customer(s):</b> <i>Other Communication Providers</i>
<b>Price list entry:</b> <a href="http://www.openreach.co.uk/orpg/pricing/lluprices.do">http://www.openreach.co.uk/orpg/pricing/lluprices.do</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>MPF Rentals (External)</i>
<b>Market:</b> <i>Wholesale local access</i>
<b>Market review:</b> <i>Review of the wholesale broadband access market.</i>
<b>Service Offering:</b>  <i>On going use maintenance of two wire point to point metallic transmission path extending from Network terminating point at the End User premises to the Line side of the MDF.</i>
<b>Customer(s):</b> <i>Other Communication Providers</i>
<b>Price list entry:</b> <a href="http://www.openreach.co.uk/orpg/pricing/lluprices.do">http://www.openreach.co.uk/orpg/pricing/lluprices.do</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>MPF Room Build(External)</i>
<b>Market:</b> <i>Wholesale local access</i>
<b>Market review:</b> <i>Review of the wholesale broadband access market.</i>
<b>Service Offering:</b>  <i>Building of co-mingling bays to enable LLU operators to install their equipment.</i>  <i>Includes:</i> <ul style="list-style-type: none"><li>• <i>Erection of iron work.</i></li><li>• <i>Provision of power and cooling</i></li><li>• <i>Lighting</i></li><li>• <i>Rack space</i></li><li>• <i>Cable runway</i></li></ul>
<b>Customer(s):</b> <i>Other Communication Providers</i>
<b>Price list entry:</b> <a href="http://www.openreach.co.uk/orpg/pricing/lluprices.do">http://www.openreach.co.uk/orpg/pricing/lluprices.do</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>MPF Hostel Rentals (External)</i>
<b>Market:</b> <i>Wholesale local access</i>
<b>Market review:</b> <i>Review of the wholesale broadband access market.</i>
<b>Service Offering:</b>  <i>Charges for service and maintenance co-mingling.</i>
<b>Customer(s):</b> <i>Other Communication Providers</i>
<b>Price list entry:</b> <a href="http://www.openreach.co.uk/orpg/pricing/lluprices.do">http://www.openreach.co.uk/orpg/pricing/lluprices.do</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>MPF Tie Cables (External)</i>
<b>Market:</b> <i>Wholesale local access</i>
<b>Market review:</b> <i>Review of the wholesale broadband access market.</i>
<b>Service Offering:</b>  <i>Internal tie cables provide connectivity from the Handover distribution frame (HDF) located in the LLU operator equipment space to the Main Distribution Frame (MDF).</i>
<b>Customer(s):</b> <i>Other Communication Providers</i>
<b>Price list entry:</b> <a href="http://www.openreach.co.uk/orpg/pricing/lluprices.do">http://www.openreach.co.uk/orpg/pricing/lluprices.do</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>SMPF Connections (External)</i>
<b>Market:</b> <i>Wholesale local access</i>
<b>Market review:</b> <i>Review of the wholesale broadband access market.</i>
<b>Service Offering:</b>  <i>Provision of access to non voice frequency spectrum of a metallic path over which analogue telephone service is then provided to the end user by BT allowing an operator to deploy technology such as ADSL over the same metallic pair.</i>
<b>Customer(s):</b> <i>Other Communication Providers</i>
<b>Price list entry:</b> <a href="http://www.openreach.co.uk/orpg/pricing/lluprices.do">http://www.openreach.co.uk/orpg/pricing/lluprices.do</a>

## BT Wholesale Catalogue

<b>Service:</b> <i>SMPF Rentals (External)</i>
<b>Market:</b> <i>Wholesale local access</i>
<b>Market review:</b> <i>Review of the wholesale broadband access market.</i>
<b>Service Offering:</b>  <i>Maintenance of access to non voice frequency spectrum of a metallic path over which analogue telephone service is then provided to the end user by BT allowing an operator to deploy technology such as ADSL over the same metallic pair.</i>
<b>Customer(s):</b> <i>Other Communication Providers</i>
<b>Price list entry:</b> <a href="http://www.openreach.co.uk/orpg/pricing/lluprices.do">http://www.openreach.co.uk/orpg/pricing/lluprices.do</a>