



BT Wholesale Catalogue

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Introduction

The Wholesale Catalogue identifies and describes the Wholesale services included in the Wholesale SMP markets and Technical Areas for which BT has a regulatory financial reporting obligation. The Wholesale Catalogue contains descriptions of service offerings, identifies whether services are internally or externally supplied, and identifies the underlying services (used in the production of our Regulatory Financial Statements) which map to these published services, highlighting where relevant if these are equivalence of input charges for the Wholesale Broadband Access market.

Market: TISBO (up to and including 8Mbit/s)

Published Service code	Service name and offering
<p>M10S01</p> <p>M10S02</p>	<p>Partial and Private Circuits 64kbit/s – connections - Internal</p> <p>Partial and Private Circuits 64kbit/s – connections - External</p> <p>Service offering:</p> <p>Outline of Service</p> <p>A Partial and Private Circuit operating at 64kbit/s is a wholesale circuit from a Third Party Customer Link to a Public Electronic Communications Network's (PECN) Point of Handover (PoH).</p> <p>The service is 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 Synchronous Digital Hierarchy (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.</p> <p>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.</p> <p>Key Features and Availability</p> <p>PECN's PoH</p> <p>The Main Link will nominally cover the distance from the Third Party Customer's BT Serving Exchange to the Synchronous Digital Hierarchy (SDH) Network BT Serving Node (Tier 1, Tier 1.5 or Tier 2) used for connection to the PECN.</p> <p>The delivery, for each individual Partial and Private Circuit at 64kbit/s to the PECN is via a 2Mbit/s Aggregate Interface presented across an STM-1 or STM-4 or STM-16 line transmission system at the PoH.</p> <p>Further technical specification regarding the bearer and how the service is presented at the PoH can be found within Supplier Information Notes (SIN) 254 'KiloStream Aggregate Interface Service Description'. SIN documents can be found at www.sinet.bt.com.</p> <p>Note that PoH electronics are available to Other Communications Providers only.</p>
<p>M10S03</p> <p>M10S33</p>	<p>Partial and Private Circuits 64kbit/s – link - Internal</p> <p>Partial and Private Circuits 64kbit/s – link - External</p> <p>Service offering:</p> <p>Outline of Service</p> <p>A Partial and Private Circuit operating at 64kbit/s is a wholesale circuit from a Third Party Customer Link to a Public Electronic Communications Network's (PECN) Point of Handover (PoH).</p> <p>The link is associated with the Digital Private Circuits Network (DPCN).</p> <p>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.</p> <p>With the improved identification of the circuit ends, only the bearer between the terminating end and LSE is now identified as Link.</p> <p>Note that PoH electronics are available to Other Communications Providers only.</p>

Published Service code	Service name and offering
<p>M10S04</p> <p>M10S34</p>	<p>Partial and Private Circuits 64kbit/s - distribution - Internal</p> <p>Partial and Private Circuits 64kbit/s - distribution - External</p> <p>Service offering:</p> <p>A Partial and Private Circuit operating at 64kbit/s is a wholesale circuit from a Third Party Customer Link to a Public Electronic Communications Network's (PECN) Point of Handover (PoH).</p> <p>Outline of Service</p> <p>This component captures the 64kbit/s link length costs associated with the Digital Private Circuits Network (DPCN). The component volumes are measured in Radial km.</p>
<p>M10S06</p> <p>M10S35</p>	<p>Partial and Private Circuits 64kbit/s - local end - Internal</p> <p>Partial and Private Circuits 64kbit/s - local end - External</p> <p>Service offering:</p> <p>Outline of Service</p> <p>A Partial and Private Circuit operating at 64kbit/s is a wholesale circuit from a Third Party Customer Link to a Public Electronic Communications Network's (PECN) Point of Handover (PoH).</p> <p>The local end service is from a Third Party Customer site across the Local Access Network to the terminating equipment at the serving exchange.</p> <p>Key Features and Availability</p> <p>The Local End covers the distance from the Third Party Customer's site to the BT Serving Exchange. This service can be bought in conjunction with link and length services which provide onward connection to the Synchronous Digital Hierarchy (SDH) Network BT Serving Node used for connection to the PECN.</p> <p>Further technical specification regarding the bearer and how the service is presented at the PoH can be found within Supplier Information Notes (SIN) 254 'KiloStream Aggregate Interface Service Description'. SIN documents can be found at www.sinet.bt.com.</p>
<p>M10S07</p> <p>M10S08</p>	<p>Partial and Private Circuits 2Mbit/s - connections - Internal</p> <p>Partial and Private Circuits 2Mbit/s - connections - External</p> <p>Service offering:</p> <p>Outline of Service</p> <p>A Partial and Private Circuit (PPC) operating at 2Mbit/s is a wholesale circuit from a Third Party Customer Link to a Public Electronic Communications Network's (PECN) Point of Handover (PoH).</p> <p>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).</p> <p>This service provides the activities to enable a 2Mbit/s PPC provision.</p> <p>Key Features and Availability</p> <p>PECN's PoH</p> <p>The delivery, for each individual Partial and Private Circuit at 2Mbit/s to the PECN is presented across an STM-1, STM-4 or STM-16 line transmission system at the PoH.</p> <p>The chosen routing and protection for the 2Mbit/s circuit is provided such that it meets the quality of service for the product.</p> <p>Note that PoH electronics are available to Other Communications Providers only.</p>

Published Service code	Service name and offering
<p>M10S09</p> <p>M10S36</p>	<p>Partial and Private Circuits 2Mbit/s – link – Internal</p> <p>Partial and Private Circuits 2Mbit/s – link – External</p> <p>Service offering:</p> <p>A Partial and Private Circuit operating at 2Mbit/s is a wholesale circuit from a Third Party Customer Link to a Public Electronic Communications Network's (PECN) Point of Handover (PoH).</p> <p>Outline of Service</p> <p>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.</p>
<p>M10S10</p> <p>M10S30</p>	<p>Partial and Private Circuits 2Mbit/s – distribution – Internal</p> <p>Partial and Private Circuits 2Mbit/s – distribution – External</p> <p>Service offering:</p> <p>A Partial and Private Circuit operating at 2Mbit/s is a wholesale circuit from a Third Party Customer Link to a Public Electronic Communications Network's (PECN) Point of Handover (PoH).</p> <p>Outline of Service</p> <p>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 Synchronous Digital Hierarchy (SDH)/MSH bearers between Tier 1.5 to 4 and PDH line systems with a bit rate between 2 and 34Mbit/s, within the core network (excluding local ends and links to terminating ends).</p> <p>This component is specific to 2Mbit/s circuits.</p>
<p>M10S11</p> <p>M10S31</p>	<p>Partial and Private Circuits 2Mbit/s – local end Central London Zone – Internal</p> <p>Partial and Private Circuits 2Mbit/s – local end Central London Zone – External</p> <p>Service offering:</p> <p>Outline of Service</p> <p>A Partial and Private Circuit operating at 2Mbit/s is a wholesale circuit from a Third Party Customer Link to a Public Electronic Communications Network's (PECN) Point of Handover (PoH).</p> <p>The local end service is from a Third Party Customer site across the Local Access Network to the terminating equipment at the serving exchange.</p> <p>A local end CLZ service implies that this part of the circuit is located in the Central London zone.</p> <p>Key Features and Availability</p> <p>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 Synchronous Digital Hierarchy (SDH) Network BT Serving Node used for connection to the PECN.</p> <p>Further technical specification regarding the bearer and how the service is presented at the PoH can be found within Supplier Information Notes (SIN) 254 'KiloStream Aggregate Interface Service Description'. SIN documents can be found at www.sinet.bt.com.</p>

Published Service code	Service name and offering
<p>M10S12</p> <p>M10S32</p>	<p>Partial and Private Circuits 2Mbit/s – local end non Central London Zone – Internal</p> <p>Partial and Private Circuits 2Mbit/s – local end non Central London Zone – External</p> <p>Service offering:</p> <p>Outline of Service</p> <p>A Partial and Private Circuit operating at 2Mbit/s is a wholesale circuit from a Third Party Customer Link to a Public Electronic Communications Network's (PECN) Point of Handover (PoH).</p> <p>The local end service is from a Third Party Customer site across the Local Access Network to the terminating equipment at the serving exchange.</p> <p>A local end non CLZ service implies that this part of the circuit is not located in the Central London zone.</p> <p>Key Features and Availability</p> <p>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 Synchronous Digital Hierarchy (SDH) Network BT Serving Node used for connection to the PECN.</p>
<p>M10S13</p>	<p>Symmetric Digital Subscriber Line – Internal</p> <p>Service offering:</p> <p>a) 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.</p> <p>b) 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.</p>

Published Service code	Service name and offering
M10S14	<p>Radio Backhaul Service - sub 2Mbit/s connections – External</p> <p>Service offering:</p> <p>Outline of Service</p> <p>The Radio Base Station Backhaul service comprises three main elements:</p> <ol style="list-style-type: none"> a) The Point of Connection (A-end): This is the infrastructure that provides the connection between the mobile network operator's (MNO's) switching centre, or network, and the serving Synchronous Digital Hierarchy (SDH) node in the BT network. The high-capacity Point of Connection (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. b) 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 2Mbit/s. Presentation at the Cell Site is via standard G703 or X21 interfaces. c) 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; 768kbit/s; 832kbit/s; 896kbit/s; 960kbit/s and 2Mbit/s. <p>Key Features and Availability</p> <p>The product is available nationally, for new supply, at 2Mbit/s and all bandwidths between 128kbit/s and 960kbit/s.</p> <p>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 1,024kbit/s, may also be migrated to Radio Base Station Backhaul terms and conditions.</p> <p>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.</p>

Published Service code	Service name and offering
M10S15	<p>Radio Backhaul Service - sub 2Mbit/s rentals – External</p> <p>Service offering:</p> <p>Outline of Service</p> <p>The Radio Base Station Backhaul service comprises three main elements:</p> <ol style="list-style-type: none"> a) The Point of Connection (A-end): This is the infrastructure that provides the connection between the mobile network operator's (MNO's) switching centre, or network, and the serving Synchronous Digital Hierarchy (SDH) node in the BT network. The high-capacity Point of Connection (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. b) 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 2Mbit/s. Presentation at the Cell Site is via standard G703 or X21 interfaces. c) 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; 768kbit/s; 832kbit/s; 896kbit/s; 960kbit/s; and 2Mbit/s. <p>Key Features and Availability</p> <p>The product is available nationally, for new supply, at 2Mbit/s and all bandwidths between 128kbit/s and 960kbit/s.</p> <p>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 1,024kbit/s, may also be migrated to Radio Base Station Backhaul terms and conditions.</p> <p>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.</p>

Published Service code	Service name and offering
<p>M10S16</p> <p>M10S17</p>	<p>Radio Backhaul Service - 2Mbit/s connections - Internal</p> <p>Radio Backhaul Service - 2Mbit/s connections - External</p> <p>Service offering:</p> <p>Outline of Service</p> <p>The Radio Base Station Backhaul service comprises three main elements:</p> <ul style="list-style-type: none"> a) The Point of Connection (A-end): This is the infrastructure that provides the connection between the mobile network operator's (MNO's) switching centre, or network, and the serving Synchronous Digital Hierarchy (SDH) node in the BT network. The high-capacity Point of Connection (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. b) 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 2Mbit/s. Presentation at the Cell Site is via standard G703 or X21 interfaces. c) 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; 768kbit/s; 832kbit/s; 896kbit/s; 960kbit/s; and 2Mbit/s. <p>Key Features and Availability</p> <p>The product is available nationally, for new supply, at 2Mbit/s and all bandwidths between 128kbit/s and 960kbit/s.</p> <p>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 1,024kbit/s, may also be migrated to Radio Base Station Backhaul terms and conditions.</p> <p>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.</p>

Published Service code	Service name and offering
<p>M10S18</p> <p>M10S19</p>	<p>Radio Backhaul Service - 2Mbit/s rentals - Internal</p> <p>Radio Backhaul Service - 2Mbit/s rentals - External</p> <p>Service offering:</p> <p>Outline of Service</p> <p>The Radio Base Station Backhaul service comprises three main elements:</p> <ol style="list-style-type: none"> The Point of Connection (A-end): This is the infrastructure that provides the connection between the mobile network operator's (MNO's) switching centre, or network, and the serving Synchronous Digital Hierarchy (SDH) node in the BT network. The high-capacity Point of Connection (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. 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 2Mbit/s. Presentation at the Cell Site is via standard G703 or X21 interfaces. 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; 768kbit/s; 832kbit/s; 896kbit/s; 960kbit/s; and 2Mbit/s. <p>Key Features and Availability</p> <p>The product is available nationally, for new supply, at 2Mbit/s and all bandwidths between 128kbit/s and 960kbit/s.</p> <p>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 1,024kbit/s, may also be migrated to Radio Base Station Backhaul terms and conditions.</p> <p>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.</p>
<p>M10S20</p>	<p>Netstream 16 Longline 2Mbit/s connections - External</p> <p>Service offering:</p> <p>Outline of Service</p> <p>Netstream is a Retail Line of Business Product offering that enables mobile network operators (MNOs) to backhaul their traffic from their cell sites (satellite sites) to their core networks (at major customer sites). Netstream 16 Longlines offers a number of pricing options to MNOs for circuits between small satellite sites and major sites and is available for 2Mbit/s. This service was closed in 2016.</p>
<p>M10S21</p>	<p>Netstream 16 Longline 2Mbit/s rentals non Central London Zone - External</p> <p>Service offering:</p> <p>Outline of Service(s):</p> <p>Netstream is a Retail Line of Business Product offering that enables mobile network operators (MNOs) to backhaul their traffic from their cell sites (satellite sites) to their core networks (at major customer sites). Netstream 16 Longlines offers a number of pricing options to MNOs for circuits between small satellite sites and major sites and is available for 2Mbit/s rentals non CLZ. This service was closed in 2016.</p>

Published Service code	Service name and offering
M10S22	<p>Netstream 16 Longline 2Mbit/s rentals Central London Zone - External</p> <p>Service offering:</p> <p>Outline of Service(s):</p> <p>Netstream is a Retail Line of Business Product offering that enables mobile network operators (MNOs) to backhaul their traffic from their cell sites (satellite sites) to their core networks (at major customer sites). Netstream 16 Longlines offers a number of pricing options to MNOs for circuits between small satellite sites and major sites and is available for 2Mbit/s rentals CLZ. This service was closed in 2016.</p>
M10S23 M10S24	<p>Protected Path Variants and Resilience – Internal</p> <p>Protected Path Variants and Resilience – External</p> <p>Service offering:</p> <p>Outline of Service</p> <p>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.</p> <p>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.</p> <p>Key Features and Availability</p> <p>Protected Path Variant 1</p> <p>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 Synchronous Digital Hierarchy (SDH) network to the single PoH at the Communications Provider's network.</p> <p>Protected Path Variant 2</p> <p>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 and CI) functionality which is 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 Synchronous Digital Hierarchy (SDH) network to the two PoHs at the Communications Provider's network.</p> <p>PPC Assured Resilience</p> <p>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.</p>

Published Service code	Service name and offering
M10S25	<p>Third Party Equipment Depreciation TISBO (up to and including 8Mbit/s)</p> <p>Service offering:</p> <p>The Regulatory Financial Statements (RFS) discloses the revenue for support services such as single payments, resilience and third party equipment and infrastructure charges. The support service categories in the Financial Statements comprise many individual services, each with varying cost structures, and each likely to be immaterial. As a result Ofcom has not required BT to report the costs of support services on a service by service basis. The Equipment Depreciation for Support Services in the Third Party Equipment Depreciation TISBO (up to and including 8Mbit/s) market has been identified as a separate service in the RFS without revenue.</p>
M10S26 M10S27	<p>Third Party Customer Infrastructure - Internal</p> <p>Third Party Customer Infrastructure - External</p> <p>Service offering:</p> <p>Outline of Service</p> <p>Third Party infrastructure refers to the equipment located at a Third Party Customer’s 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.</p> <p>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.</p> <p>Key Features and Availability</p> <p>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 are 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 are managed to the 85 working days lead-time. Refer to Annex E Clause 3.12 of the PPC Handover Agreement.</p>
M10S28 M10S29	<p>Excess Construction Charges - Internal</p> <p>Excess Construction Charges – External</p> <p>Service offering:</p> <p>Outline of Service</p> <p>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.</p> <p>Note: No charges for cable are raised for standard routing.</p> <p>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.</p> <p>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.</p> <p>Key Features and Availability</p> <p>The Excess Construction Charges are identified during the planning stage of all products/services provided over a Wideband infrastructure and are notified at the Firm Offer Confirmation (FOC) stage of the order process. Where Communications Providers do not accept the charge at FOC the order is cancelled.</p>

Market: TISBO (above 8Mbit/s up to & including 45Mbit/s)

Published Service code	Service name and offering
M111S01	Partial and Private Circuits 34/45Mbit/s - connections - Internal
M111S02	<p>Partial and Private Circuits 34/45Mbit/s - connections - External</p> <p>Service offering:</p> <p>Outline of Service</p> <p>A Partial and Private Circuit operating at 34/45Mbit/s is a wholesale circuit from a Third Party Customer to a Public Electronic Communications Network's (PECN) Point of Handover (PoH).</p> <p>The service is from a Third Party customer site across the BT network to an agreed PoH served by the nearest appropriate Synchronous Digital Hierarchy (SDH) BT Serving Node – typically a Tier 1, 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.</p> <p>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).</p> <p>Key Features and Availability</p> <p>Public Electronic Communications Network's (PECN) Point of Handover (POH).</p> <p>The Main Link will nominally cover the distance from the Third Party Customer's BT Serving Exchange to the Synchronous Digital Hierarchy (SDH) Network BT Serving Node (Tier 1, Tier 1.5, Tier 2 or Tier 3) used for connection to the PECN.</p> <p>The delivery, for each individual Partial and Private Circuit at 34/45Mbit/s to the PECN is presented across an STM-1 or STM-4 or STM-16 line transmission system at the PoH.</p> <p>The chosen routing and protection for the high bandwidth circuit is provided such that it meets the quality of service for the product.</p> <p>Note that PoH electronics are available to Other Communications Providers only.</p>

Published Service code	Service name and offering
<p>M111S03</p> <p>M111S11</p>	<p>Partial and Private Circuits 34/45Mbit/s - link - Internal</p> <p>Partial and Private Circuits 34/45Mbit/s - link - External</p> <p>Service offering:</p> <p>Outline of Service</p> <p>34/45Mbit/s service</p> <p>A Partial and Private Circuit operating at 34/45Mbit/s is a wholesale circuit from a Third Party Customer to a Public Electronic Communications Network's (PECN) Point of Handover (PoH).</p> <p>The service is from a Third Party customer site across the BT network to an agreed PoH served by the nearest appropriate Synchronous Digital Hierarchy (SDH) BT Serving Node – typically a Tier 1, 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.</p> <p>Key Features and Availability</p> <p>The Main Link will nominally cover the distance from the Third Party Customer's BT Serving Exchange to the Synchronous Digital Hierarchy (SDH) Network BT Serving Node (Tier 1, Tier 1.5, Tier 2 or Tier 3) used for connection to the PECN.</p> <p>The delivery, for each individual Partial and Private Circuit at 34/45Mbit/s to the PECN is presented across an STM-1 or STM-4 or STM-16 line transmission system at the PoH.</p> <p>The chosen routing and protection for the high bandwidth circuit is provided such that it meets the quality of service for the product.</p> <p>These services now exclude circuits located within the Western, Eastern and Central London Area including Slough (WECLA).</p>
<p>M111S04</p> <p>M111S12</p>	<p>Partial and Private Circuits 34/45Mbit/s - distribution - Internal</p> <p>Partial and Private Circuits 34/45Mbit/s - distribution - External</p> <p>Service offering:</p> <p>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 Network's (PECN) Point of Handover (PoH).</p> <p>Outline of Service</p> <p>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 Synchronous Digital Hierarchy (SDH)/MSH bearers between Tier 1.5 to 4 and PDH line systems with a bit rate between 2 and 34Mbit/s, within the core network (excluding local ends and links to terminating ends).</p> <p>These services now exclude circuits located within the Western, Eastern and Central London Area including Slough (WECLA).</p>

Published Service code	Service name and offering
<p>M111S05</p> <p>M111S13</p>	<p>Partial and Private Circuits 34/45Mbit/s - local end - Internal</p> <p>Partial and Private Circuits 34/45Mbit/s - local end - External</p> <p>Service offering:</p> <p>Outline of Service</p> <p>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 Network's (PECN) Point of Handover (PoH).</p> <p>The local end service is from a Third Party Customer site across the Local Access Network to the terminating equipment at the serving exchange.</p> <p>Key Features and Availability</p> <p>The Local End covers the distance from the Third Party Customer's site to the BT Serving Exchange. This service can be brought in conjunction with link and length services which provide onward connection to the Synchronous Digital Hierarchy (SDH) Network BT Serving Node used for connection to the PECN.</p> <p>These services now exclude circuits located within the Western, Eastern and Central London Area including Slough (WECLA).</p>

Published Service code	Service name and offering
<p>M111S8</p> <p>M111S9</p>	<p>Protected Path Variants and Resilience - Internal</p> <p>Protected Path Variants and Resilience - External</p> <p>Service offering:</p> <p>Outline of Service</p> <p>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.</p> <p>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.</p> <p>Key Features and Availability</p> <p>Protected Path Variant 1</p> <p>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 Synchronous Digital Hierarchy (SDH) network to the single PoH at the Communications Provider's network.</p> <p>Protected Path Variant 2</p> <p>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 and CI) functionality which is 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 Synchronous Digital Hierarchy (SDH) network to the two PoHs at the Communications Provider's network.</p> <p>PPC Assured Resilience</p> <p>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. These services now exclude circuits located within the Western, Eastern and Central London Area including Slough (WECLA).</p>
<p>M111S10</p>	<p>Third Party Equipment Depreciation TISBO (above 8Mbit/s up to and including 45Mbit/s)</p> <p>Service offering:</p> <p>The Regulatory Financial Statements (RFS) discloses the revenue for support services. The support service categories in the Financial Statements comprise many individual services, each with varying cost structures, and each likely to be immaterial. As a result Ofcom has not required BT to report the costs of support services on a service by service basis. The Equipment Depreciation for Support Services in the TISBO (above 8Mbit/s up to and including 45Mbit/s) market has been identified as a separate service in the RFS without revenue.</p>

Market: TISBO (above 45Mbit/s up to & including 155Mbit/s)

Published Service code	Service name and offering
M112S01	Partial and Private Circuits 140/155Mbit/s - connections - Internal
M112S02	<p>Partial and Private Circuits 140/155Mbit/s - connections - External</p> <p>Service offering:</p> <p>Outline of Service</p> <p>A Partial and Private Circuit operating at 140/155Mbit/s is a Wholesale circuit from a Third Party Customer to a Public Electronic Communications Network's (PECN) Point of Handover (PoH).</p> <p>The service is from a Third Party customer site across the BT network to an agreed PoH served by the nearest appropriate Synchronous Digital Hierarchy (SDH) BT Serving Node – typically a Tier 1, 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.</p> <p>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).</p> <p>155Mbit/s Service MSH-MSH</p> <p>A Partial and Private Circuit operating at 155Mbit/s is a Wholesale circuit from a Third Party Customer MSH51C to a PECN Point of Handover (PoH) MSH51C.</p> <p>Key Features and Availability</p> <p>PECNs PoH</p> <p>The Main Link will nominally cover the distance from the Third Party Customers BT Serving Exchange to the Synchronous Digital Hierarchy (SDH) Network BT Serving Node (Tier 1, Tier 1.5, Tier 2 or Tier 3) used for connection to the PECN.</p> <p>The delivery for each individual Partial and Private Circuit at 34/45Mbit/s and 140/155Mbit/s to the PECN is presented across an STM-1, STM-4 or STM-16 line transmission system at the PoH.</p>

Published Service code	Service name and offering
<p>M112S03</p> <p>M112S12</p>	<p>Partial and Private Circuits 140/155Mbit/s - link - Internal</p> <p>Partial and Private Circuits 140/155Mbit/s - link - External</p> <p>Service offering:</p> <p>Outline of Service</p> <p>A Partial and Private Circuit operating at 34/45Mbit/s or 140/155Mbit/s is a wholesale circuit from a Third Party Customer to a Public Electronic Communications Network's (PECN) Point of Handover (PoH).</p> <p>The service is from a Third Party customer site across the BT network to an agreed PoH served by the nearest appropriate Synchronous Digital Hierarchy (SDH) BT Serving Node – typically a Tier 1, 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.</p> <p>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).</p> <p>155Mbit/s Service MSH-MSH</p> <p>A Partial and Private Circuit operating at 155Mbit/s is a wholesale circuit from a Third Party Customer MSH51C to a PECN Point of Handover (PoH) MSH51C.</p> <p>Key Features and Availability</p> <p>PECNs PoH</p> <p>The Main Link will nominally cover the distance from the Third Party Customers BT Serving Exchange to the Synchronous Digital Hierarchy (SDH) Network BT Serving Node (Tier 1, Tier 1.5, Tier 2 or Tier 3) used for connection to the PECN.</p> <p>The delivery for each individual Partial and Private Circuit at 34/45Mbit/s and 140/155Mbit/s to the PECN is presented across an STM-1, STM-4 or STM-16 line transmission system at the PoH.</p> <p>These services now exclude circuits located within the Western, Eastern and Central London Area including Slough (WECLA).</p>
<p>M112S04</p> <p>M112S13</p>	<p>Partial and Private Circuits 140/155Mbit/s - distribution - Internal</p> <p>Partial and Private Circuits 140/155Mbit/s - distribution - External</p> <p>Service offering:</p> <p>A Partial and Private Circuit operating at 155Mbit/s is a wholesale circuit from a Third Party Customer Link to a Public Electronic Communications Network's (PECN) Point of Handover (PoH).</p> <p>Outline of Service</p> <p>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 Synchronous Digital Hierarchy (SDH)/MSH bearers between Tier 1.5 to 4 and PDH line systems with a bit rate between 2 and 34Mbit/s, within the core network (excluding local ends and links to terminating ends).</p> <p>These services now exclude circuits located within the Western, Eastern and Central London Area including Slough (WECLA).</p>

Published Service code	Service name and offering
<p>M112S05</p> <p>M112S14</p>	<p>Partial and Private Circuits 140/155Mbit/s - local end - Internal</p> <p>Partial and Private Circuits 140/155Mbit/s - local end - External</p> <p>Service offering:</p> <p>Outline of Service</p> <p>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 Network's (PECN) Point of Handover (PoH).</p> <p>The local end service is from a Third Party Customer site across the Local Access Network to the terminating equipment at the serving exchange.</p> <p>Key Features and Availability</p> <p>The Local End covers the distance from the Third Party Customer's site to the BT Serving Exchange. This service can be brought in conjunction with link and length services which provide onward connection to the Synchronous Digital Hierarchy (SDH) Network BT Serving Node used for connection to the PECN.</p> <p>These services now exclude circuits located within the Western, Eastern and Central London Area including Slough (WECLA).</p>
<p>M112S07</p>	<p>Netstream 16 Longline 155Mbit/s rentals - External</p> <p>Service offering:</p> <p>Outline of Service(s):</p> <p>Netstream is a Retail Line of Business Product offering that enables mobile network operators (MNOs) to backhaul their traffic from their cell sites (satellite sites) to their core networks (at major customer sites). Netstream 16 Longlines offers a number of pricing options to MNOs for circuits between small satellite sites and major sites and is available for 155Mbit/s rentals. This service was closed in 2016.</p>

Published Service code	Service name and offering
<p>M112S08</p> <p>M112S09</p>	<p>Protected Path Variants and Resilience – Internal</p> <p>Protected Path Variants and Resilience – External</p> <p>Service offering:</p> <p>Outline of Service</p> <p>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.</p> <p>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.</p> <p>Key Features and Availability</p> <p>Protected Path Variant 1</p> <p>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 Synchronous Digital Hierarchy (SDH) network to the single PoH at the Communications Provider’s network.</p> <p>Protected Path Variant 2</p> <p>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 and CI) functionality which is 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 Synchronous Digital Hierarchy (SDH) network to the two PoHs at the Communications Provider’s network.</p> <p>PPC Assured Resilience</p> <p>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. These services now exclude circuits located within the Western, Eastern and Central London Area including Slough (WECLA).</p>
<p>M112S11</p>	<p>Radio Backhaul Services 155Mbit/s Rentals – Internal</p> <p>Service offering:</p> <p>The Radio Base Station Backhaul service operating at 155Mbit/s comprises three main elements:</p> <p>a) The Point of Connection (A-end): This is the infrastructure that provides the connection between the mobile network operator’s (MNO’s) switching centre, or network, and the serving Synchronous Digital Hierarchy (SDH) node in the BT network. The high-capacity Point of Connection (PoC) infrastructure is supplied as a Customer Sited Connection (CSC). Multiple Radio Base Station Backhaul Circuits can be handed over at a single PoC.</p> <p>b) 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</p> <p>c) Radio Base Station Backhaul Circuit: This is the connection across the BT network between the PoC and the Cell Site.</p>

Published Service code	Service name and offering
M112S10	<p>Third Party Equipment Depreciation TISBO (above 45Mbit/s up to and including 155Mbit/s)</p> <p>Service offering:</p> <p>The Regulatory Financial Statements (RFS) discloses the revenue for support services. The support service categories in the Financial Statements comprise many individual services, each with varying cost structures, and each likely to be immaterial. As a result Ofcom has not required BT to report the costs of support services on a service by service basis. The Equipment Depreciation for Support Services in the TISBO (above 45Mbit/s up to and including 155Mbit/s) market has been identified as a separate service in the RFS without revenue.</p>

Market: Technical areas (Point of Handover)

Published Service code	Service name and offering
M14S01	<p>Customer Sited Handover – Connections – External</p> <p>Service offering:</p> <p>The Point of Handover (PoH) is a high bandwidth connection between a PECN and the serving Synchronous Digital Hierarchy (SDH) node in the BT network.</p> <p>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.</p> <p>Also includes:</p> <p>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.</p>
M14S02	<p>Customer Sited Handover – Rentals – External</p> <p>Service Offering:</p> <p>The Point of Handover (PoH) is a high bandwidth connection between a PECN and the serving Synchronous Digital Hierarchy (SDH) node in the BT network.</p> <p>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.</p> <p>Also includes:</p> <p>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.</p>
M14S03	<p>In Span Handover – Connections – External</p> <p>Service offering:</p> <p>The Point of Handover (PoH) is a high bandwidth connection between a PECN and the serving Synchronous Digital Hierarchy (SDH) node in the BT network.</p> <p>The high-capacity PoH infrastructure is supplied as either In-Span Handover (ISH) or In-Span Handover Extension (ISH Extn). Multiple circuits can be handed over at a single PoH.</p> <p>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 1.55Mbit/s.</p> <p>Also includes:</p> <p>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.</p>

Published Service code	Service name and offering
<p>M14S04</p>	<p>In Span Handover - Rentals – External</p> <p>Service offering:</p> <p>The Point of Handover (PoH) is a high bandwidth connection between a PECN and the serving Synchronous Digital Hierarchy (SDH) node in the BT network.</p> <p>The high-capacity PoH infrastructure is supplied as either In-Span Handover (ISH) or In-Span Handover Extension (ISH Extn). Multiple circuits can be handed over at a single PoH.</p> <p>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.</p> <p>Also includes:</p> <p>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.</p>
<p>M14S05</p>	<p>3rd Party POH Rental - efficient circuits - External</p> <p>Service offering:</p> <p>Outline of Service</p> <p>The Point of Handover (PoH) is a high bandwidth connection between a PECN and the serving Synchronous Digital Hierarchy (SDH) node in the BT network.</p> <p>This service offering is for providing PoH between 64kbit/s to 155Mbit/s on SDH equipment.</p> <p>Key Features and availability</p> <p>The Network architecture is built on the principle of a fully meshed, full granularity network. Each circuit is routed individually with Sub Network Connection Protection Termination at the Point of Handover and a distant SNCP Termination at the last Synchronous Digital Hierarchy (SDH) network element in the routing to the 3rd party customer. The Core Transmission network for Retail Private Circuits or Partial Private Circuit product is not a bearer-derived network and does not use VC4 bearers for routing a service across the Mesh. Each circuit is assigned, placed and routed from a Circuit termination point at the A End (i.e. the final nominated Interface at the Point of Handover with a circuit layer cross connection in the Handover mux).</p>
<p>M14S06</p>	<p>3rd Party POH Rental 64kbit/s circuits – External</p> <p>Service offering:</p> <p>Outline of Service</p> <p>The Point of Handover (PoH) is a high bandwidth connection between a PECN and the serving Synchronous Digital Hierarchy (SDH) node in the BT network.</p> <p>This service offering is for providing a 64kbit/s PoH on legacy PDH equipment.</p> <p>Key Features and availability</p> <p>The Network architecture is built on the principle of a fully meshed, full granularity network. Each circuit is routed individually with Sub Network Connection Protection Termination at the Point of Handover and a distant SNCP Termination at the last Synchronous Digital Hierarchy (SDH) network element in the routing to the 3rd party customer. The Core Transmission network for Retail Private Circuits or Partial Private Circuit product is not a bearer-derived network and does not use VC4 bearers for routing a service across the Mesh. Each circuit is assigned, placed and routed from a Circuit termination point at the A End (i.e. the final nominated Interface at the Point of Handover with a circuit layer cross connection in the Handover mux) to a Circuit termination point at the B End (3rd Party Customer interface).</p>

Published Service code	Service name and offering
M14S07	<p>3rd Party POH Rental 2Mbit/s non Central London Zone circuits – External</p> <p>Service offering:</p> <p>Outline of Service</p> <p>The Point of Handover (PoH) is a high bandwidth connection between a PECN and the serving Synchronous Digital Hierarchy (SDH) node in the BT network.</p> <p>This service offering is for providing a 2Mbit/s non CLZ PoH on legacy PDH equipment.</p> <p>Key Features and availability</p> <p>The Network architecture is built on the principle of a fully meshed, full granularity network. Each circuit is routed individually with Sub Network Connection Protection Termination at the Point of Handover and a distant SNCP Termination at the last Synchronous Digital Hierarchy (SDH) network element in the routing to the 3rd party customer. The Core Transmission network for Retail Private Circuits or Partial Private Circuit product is not a bearer-derived network and does not use VC4 bearers for routing a service across the Mesh. Each circuit is assigned, placed and routed from a Circuit termination point at the A End (i.e. the final nominated Interface at the Point of Handover with a circuit layer cross connection in the Handover mux) to a Circuit termination point at the B End (3rd Party Customer interface).</p>
M14S08	<p>3rd Party POH Rental Other circuits – External</p> <p>Service offering:</p> <p>Outline of Service</p> <p>The Point of Handover (PoH) is a high bandwidth connection between a PECN and the serving Synchronous Digital Hierarchy (SDH) node in the BT network.</p> <p>This service offering is for providing a PoH at 2Mbit/s CLZ, 34Mbit/s & 140Mbit/s on legacy PDH equipment.</p> <p>Key Features and availability</p> <p>The Network architecture is built on the principle of a fully meshed, full granularity network. Each circuit is routed individually with Sub Network Connection Protection Termination at the Point of Handover and a distant SNCP Termination at the last Synchronous Digital Hierarchy (SDH) network element in the routing to the 3rd party customer. The Core Transmission network for Retail Private Circuits or Partial Private Circuit product is not a bearer-derived network and does not use VC4 bearers for routing a service across the Mesh. Each circuit is assigned, placed and routed from a Circuit termination point at the A End (i.e. the final nominated Interface at the Point of Handover with a circuit layer cross connection in the Handover mux) to a Circuit termination point at the B End (3rd Party Customer interface).</p>

Market: Wholesale Regional Trunk Segments

Published Service code	Service name and offering
<p>M151S01</p> <p>M151S07</p>	<p>Partial and Private circuits 2Mbit/s – trunk regional – Internal</p> <p>Partial and Private circuits 2Mbit/s – trunk regional – External</p> <p>Service offering:</p> <p>A Partial and Private Circuit operating at 2Mbit/s is a wholesale circuit from a Third Party Customer Link to a Public Electronic Communications Network’s (PECN) Point of Handover (PoH).</p> <p>The trunk service is from the nearest Synchronous Digital Hierarchy (SDH) BT servicing node to the Third Party Customer site across the Local Access Network to the terminating equipment at the serving exchange.</p> <p>Outline of Service</p> <p>The service covers the distance from the nearest SDH BT Serving Node to the Third Party customer site across the BT network to an agreed PECN Point of Handover.</p> <p>Charges for this service are per km.</p>
<p>M151S02</p> <p>M151S08</p>	<p>Partial and Private circuits 34/45Mbit/s – trunk regional – Internal</p> <p>Partial and Private circuits 34/45Mbit/s – trunk regional – External</p> <p>Service offering:</p> <p>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 Network’s (PECN) Point of Handover (PoH).</p> <p>The trunk service is from the nearest Synchronous Digital Hierarchy (SDH) BT servicing node to the Third Party Customer site across the Local Access Network to the terminating equipment at the serving exchange.</p> <p>Outline of Service</p> <p>The service covers the distance from the nearest Synchronous Digital Hierarchy (SDH) BT Serving Node to the Third Party customer site across the BT network to an agreed PECN Point of Handover.</p> <p>Charges for this service are per km.</p>
<p>M151S03</p> <p>M151S09</p>	<p>Partial and Private circuits 140/155Mbit/s – trunk regional – Internal</p> <p>Partial and Private circuits 140/155Mbit/s – trunk regional – External</p> <p>Service offering:</p> <p>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 Network’s (PECN) Point of Handover (PoH).</p> <p>The trunk service is from the nearest Synchronous Digital Hierarchy (SDH) BT servicing node to the Third Party Customer site across the Local Access Network to the terminating equipment at the serving exchange.</p> <p>Outline of Service</p> <p>The service covers the distance from the nearest Synchronous Digital Hierarchy (SDH) BT Serving Node to the Third Party customer site across the BT network to an agreed PECN Point of Handover.</p> <p>Charges for this service are per km.</p>

Published Service code	Service name and offering
<p>M151S05</p> <p>M151S10</p>	<p>Protected Path Variants and Resilience - Internal</p> <p>Protected Path Variants and Resilience - External</p> <p>Outline of Service</p> <p>BT employs a complex set of routing rules within its network to ensure Quality of Service levels are maintained and assets are utilised efficiently. Other Communications Providers have a choice of PPC Circuit protection levels to help them meet their end user's requirements.</p> <p>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.</p> <p>Key Features and Availability</p> <p>Protected Path Variant 1</p> <p>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 Synchronous Digital Hierarchy (SDH) network to the single PoH at the Communications Provider's network.</p> <p>Protected Path Variant 2</p> <p>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 and CI) functionality which is 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 Synchronous Digital Hierarchy (SDH) network to the two PoHs at the Communications Provider's network.</p> <p>PPC Assured Resilience</p> <p>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.</p> <p>These services now exclude circuits located within the Western, Eastern and Central London Area including Slough (WECLA).</p>
<p>M151S06</p> <p>M151S11</p>	<p>Partial and Private circuits 64kbit/s - trunk regional - Internal</p> <p>Partial and Private circuits 64kbit/s - trunk regional - External</p> <p>Service offering:</p> <p>A Partial and Private Circuit operating at 64kbit/s is a wholesale circuit from a Third Party Customer Link to a Public Electronic Communications Network's (PECN) Point of Handover (PoH).</p> <p>Outline of Service(s):</p> <p>This component captures the 64kbit/s link length costs associated with the Digital Private Circuits Network (DPCN). The component volumes are measured in Radial km.</p>

Market: AISBO non-WECLA

Published Service code	Service name and offering
<p>M311S01</p> <p>M311S02</p>	<p>Wholesale Extension Services 10Mbit/s Rentals Non-WECLA - Internal</p> <p>Wholesale Extension Services 10Mbit/s Rentals Non-WECLA - External</p> <p>Service offering:</p> <p>Outline of Service - Wholesale Extension Service (WES)</p> <p>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 communications provider's network.</p> <p>This service is available at 10Mbit/s bandwidth.</p> <p>This service is run over a point to point fibre with electronics at either end.</p> <p>Further technical specification can be found within Supplier Information Notes (SIN). SIN documents can be found at www.sinet.bt.com.</p> <p>This service also includes WES LA variant that is the same service with only one local end.</p>
<p>M311S03</p> <p>M311S04</p>	<p>Wholesale Extension Services 100Mbit/s Rentals Non-WECLA - Internal</p> <p>Wholesale Extension Services 100Mbit/s Rentals Non-WECLA - External</p> <p>Service offering:</p> <p>Outline of Service - Wholesale Extension Service (WES)</p> <p>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 Other Communications Provider's network.</p> <p>This service is available at 100Mbit/s bandwidth.</p> <p>This service is run over a point to point fibre, with electronics at either end.</p> <p>Further technical specification can be found within Supplier Information Notes (SIN). SIN documents can be found at www.sinet.bt.com.</p> <p>This service also includes WES LA variant that is the same service with only one local end.</p>
<p>M311S05</p> <p>M311S06</p>	<p>Wholesale Extension Services 1Gbit/s Rentals Non-WECLA - Internal</p> <p>Wholesale Extension Services 1Gbit/s Rentals Non-WECLA - External</p> <p>Service offering:</p> <p>Outline of Service - Wholesale Extension Service (WES)</p> <p>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 Other Communications Provider's network.</p> <p>This service is available at 1Gbit/s bandwidth.</p> <p>This service is run over a point to point fibre, with electronics at either end.</p> <p>Further technical specification can be found within Supplier Information Notes (SIN). SIN documents can be found at www.sinet.bt.com.</p> <p>This service also includes WES LA variant that is the same service with only one local end.</p>

Published Service code	Service name and offering
<p>M311S07</p> <p>M311S47</p>	<p>Wholesale Extension Services Other Bandwidth Rentals Non-WECLA - Internal</p> <p>Wholesale Extension Services Other Bandwidth Rentals Non-WECLA - External</p> <p>Service offering:</p> <p>Outline of Service - Wholesale Extension Service (WES)</p> <p>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 Other Communications Provider's network.</p> <p>This service is available at 155Mbit/s and 622Mbit/s bandwidths. This service also includes WES 2Mbit/s and other services.</p> <p>This service is run over a point to point fibre, with electronics at either end.</p> <p>Further technical specification can be found within Supplier Information Notes (SIN). SIN documents can be found at www.sinet.bt.com.</p>
<p>M311S46</p> <p>M311S08</p>	<p>Backhaul Extension Services 1Gbit/s Rentals Non-WECLA - Internal</p> <p>Backhaul Extension Services 1Gbit/s Rentals Non-WECLA - External</p> <p>Service offering:</p> <p>Outline of Service</p> <p>Backhaul extension Service (BES)</p> <p>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 Local Loop Unbundling (LLU) operator's equipment at an unbundled MDF site and a site within an operator's own network.</p> <p>This service is available at 1Gbit/s bandwidth.</p> <p>This service is run over a point to point fibre with electronics at either end.</p> <p>Further technical specification can be found within Supplier Information Notes (SIN). SIN documents can be found at www.sinet.bt.com.</p>
<p>M311S13</p> <p>M311S14</p>	<p>Ethernet Access Direct Local Access 10Mbit/s Rentals Non-WECLA - Internal</p> <p>Ethernet Access Direct Local Access 10Mbit/s Rentals Non-WECLA - External</p> <p>Service offering:</p> <p>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 Communications provider's network.</p> <p>This service is available at 10Mbit/s bandwidth.</p> <p>This service is run over a point to point fibre with one local end.</p> <p>Further technical specification can be found within Supplier Information Notes (SIN). SIN documents can be found at www.sinet.bt.com.</p>

Published Service code	Service name and offering
<p>M311S15</p> <p>M311S16</p>	<p>Ethernet Access Direct Local Access 100Mbit/s Rentals Non-WECLA - Internal</p> <p>Ethernet Access Direct Local Access 100Mbit/s Rentals Non-WECLA - External</p> <p>Service offering:</p> <p>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 Communications provider's network.</p> <p>This service is available at 100Mbit/s bandwidth.</p> <p>This service is run over a point to point fibre with one local end.</p> <p>Further technical specification can be found within Supplier Information Notes (SIN). SIN documents can be found at www.sinet.bt.com.</p>
<p>M311S17</p> <p>M311S18</p>	<p>Ethernet Access Direct Local Access 1Gbit/s Rentals Non-WECLA - Internal</p> <p>Ethernet Access Direct Local Access 1Gbit/s Rentals Non-WECLA - External</p> <p>Service offering:</p> <p>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 Communications provider's network.</p> <p>This service is available at 1Gbit/s bandwidth.</p> <p>This service is run over a point to point fibre with one local end.</p> <p>Further technical specification can be found within Supplier Information Notes (SIN). SIN documents can be found at www.sinet.bt.com.</p>
<p>M311S19</p> <p>M311S20</p>	<p>Ethernet Access Direct Other 10Mbit/s Rentals Non-WECLA - Internal</p> <p>Ethernet Access Direct Other 10Mbit/s Rentals Non-WECLA - External</p> <p>Service offering:</p> <p>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 Communications provider's network.</p> <p>This service is available at 10Mbit/s bandwidth.</p> <p>This service is run over a point to point fibre with electronics at either end.</p> <p>Further technical specification can be found within Supplier Information Notes (SIN). SIN documents can be found at www.sinet.bt.com.</p>
<p>M311S21</p> <p>M311S22</p>	<p>Ethernet Access Direct Other 100Mbit/s Rentals Non-WECLA - Internal</p> <p>Ethernet Access Direct Other 100Mbit/s Rentals Non-WECLA - External</p> <p>Service offering:</p> <p>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 Communications provider's network.</p> <p>This service is available at 100Mbit/s bandwidth.</p> <p>This service is run over a point to point fibre with electronics at either end.</p> <p>Further technical specification can be found within Supplier Information Notes (SIN). SIN documents can be found at www.sinet.bt.com.</p>

Published Service code	Service name and offering
<p>M311S23</p> <p>M311S24</p>	<p>Ethernet Access Direct Other 1Gbit/s Rentals Non-WECLA - Internal</p> <p>Ethernet Access Direct Other 1Gbit/s Rentals Non-WECLA - External</p> <p>Service offering:</p> <p>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 Communications provider's network.</p> <p>This service is available at 1Gbit/s bandwidth.</p> <p>This service is run over a point to point fibre with electronics at either end.</p> <p>Further technical specification can be found within Supplier Information Notes (SIN). SIN documents can be found at www.sinet.bt.com.</p>
<p>M311S25</p> <p>M311S26</p>	<p>Ethernet Access Direct Local Access 10Mbit/s Connections Non-WECLA - Internal</p> <p>Ethernet Access Direct Local Access 10Mbit/s Connections Non-WECLA - External</p> <p>Service offering:</p> <p>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 Other Communications Providers' network.</p> <p>This service is available at 10Mbit/s bandwidth.</p> <p>This service captures the service management costs of the provision of a circuit.</p> <p>Further technical specification can be found within Supplier Information Notes (SIN). SIN documents can be found at www.sinet.bt.com.</p>
<p>M311S27</p> <p>M311S28</p>	<p>Ethernet Access Direct Local Access 100Mbit/s Connections Non-WECLA - Internal</p> <p>Ethernet Access Direct Local Access 100Mbit/s Connections Non-WECLA - External</p> <p>Service offering:</p> <p>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 Other Communications Provider's network.</p> <p>This service is available at 100Mbit/s bandwidth.</p> <p>This service captures the service management costs of the provision of a circuit.</p> <p>Further technical specification can be found within Supplier Information Notes (SIN). SIN documents can be found at www.sinet.bt.com.</p>
<p>M311S29</p> <p>M311S30</p>	<p>Ethernet Access Direct Local Access 1Gbit/s Connections Non-WECLA - Internal</p> <p>Ethernet Access Direct Local Access 1Gbit/s Connections Non-WECLA - External</p> <p>Service offering:</p> <p>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 Other Communications Provider's network.</p> <p>This service is available at 1Gbit/s bandwidth.</p> <p>This service captures the service management costs of the provision of a circuit.</p> <p>Further technical specification can be found within Supplier Information Notes (SIN). SIN documents can be found at www.sinet.bt.com.</p>

Published Service code	Service name and offering
<p>M311S31</p> <p>M311S32</p>	<p>Ethernet Access Direct Other 10Mbit/s Connections Non-WECLA - Internal</p> <p>Ethernet Access Direct Other 10Mbit/s Connections Non-WECLA - External</p> <p>Service offering:</p> <p>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 Other Communications Provider's network.</p> <p>This service is available at 10Mbit/s bandwidth.</p> <p>This service captures the service management costs of the provision of a circuit.</p> <p>Further technical specification can be found within Supplier Information Notes (SIN). SIN documents can be found at www.sinet.bt.com.</p>
<p>M311S33</p> <p>M311S34</p>	<p>Ethernet Access Direct Other 100Mbit/s Connections Non-WECLA - Internal</p> <p>Ethernet Access Direct Other 100Mbit/s Connections Non-WECLA - External</p> <p>Service offering:</p> <p>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 Other Communications Provider's network.</p> <p>This service is available at 100Mbit/s bandwidth.</p> <p>This service captures the service management costs of the provision of a circuit.</p> <p>Further technical specification can be found within Supplier Information Notes (SIN). SIN documents can be found at www.sinet.bt.com.</p>
<p>M311S35</p> <p>M311S36</p>	<p>Ethernet Access Direct Other 1Gbit/s Connections Non-WECLA - Internal</p> <p>Ethernet Access Direct Other 1Gbit/s Connections Non-WECLA - External</p> <p>Service offering:</p> <p>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 Other Communications Provider's network.</p> <p>This service is available at 1Gbit/s bandwidth.</p> <p>This service captures the service management costs of the provision of a circuit.</p> <p>Further technical specification can be found within Supplier Information Notes (SIN). SIN documents can be found at www.sinet.bt.com.</p>

Published Service code	Service name and offering
<p>M311S50 M311S37</p>	<p>Ethernet Backhaul Direct / Optical Network Backhaul Service Rentals Non-WECLA - Internal Ethernet Backhaul Direct / Optical Network Backhaul Service Rentals Non-WECLA - External</p> <p>Service offering:</p> <p>Permanently connected, point-to-point high speed data circuits that provide a secure and un-contended backhaul service for Other Communications Providers (OCP).</p> <p>Ethernet Backhaul Direct is available up to 1Gbit/s bandwidth.</p> <p>It operates between a Communications Provider's (CP) Point of Presence (PoP) located in a designated Openreach Access Serving Node (ASN) in a BT Exchange (using CoLocation, NetLocate or BT Locate accommodation), and a CP's core network PoP located in either the designated Openreach Handover Point (OHP) or in the CP's own site, accessed using a Bulk Transport Link or alternative transport solution provided by the CP.</p>
<p>M311S48 M311S38</p>	<p>Ethernet Backhaul Direct / Optical Network Backhaul Service Connections Non-WECLA - Internal Ethernet Backhaul Direct / Optical Network Backhaul Service Connections Non-WECLA - External</p> <p>Service offering:</p> <p>Permanently connected, point-to-point high speed data circuits that provide a secure and un-contended backhaul service for Other Communications Providers (CPs).</p> <p>Ethernet Backhaul Direct is available at 1Gbit/s bandwidth.</p> <p>It operates between a Communications Provider's (CP) Point of Presence (PoP) located in a designated Openreach Access Serving Node (ASN) in a BT Exchange (using CoLocation, NetLocate or BT Locate accommodation), and a CP's core network PoP located in either the designated Openreach Handover Point (OHP) or in the CP's own site, accessed using a Bulk Transport Link or alternative transport solution provided by the CP.</p>
<p>M311S09 M311S11</p>	<p>Other Ethernet Rentals Non-WECLA - Internal Other Ethernet Rentals Non-WECLA - External</p> <p>Service offering:</p> <p>Small value Ethernet services that serve a range of different Communications Provider requirements – this includes Bulk Transport Link, Broadcast Access, Street Access, CableLink, and Internal BES.</p> <p>This service also includes Backhaul Network Services (BNS).</p> <p>These are high speed UK network services which are available 24 hours, 365 days per year and are run over fibre.</p> <p>This service is available at 1gE and STM4 bandwidths.</p> <p>This service is run over fibre with electronics at either end of the fibre.</p> <p>Further technical specification can be found within Supplier Information Notes (SIN). SIN documents can be found at www.sinet.bt.com.</p>

Published Service code	Service name and offering
<p>M311S10</p> <p>M311S12</p>	<p>Other Ethernet Connections Non-WECLA - Internal</p> <p>Other Ethernet Connections Non-WECLA - External</p> <p>Service offering:</p> <p>Small value Ethernet services that serve a range of different Communications Provider requirements – this includes Bulk Transport Link, Broadcast Access, Street Access, CableLink, and Internal BES.</p> <p>Backhaul Network Services (BNS)</p> <p>These are high speed UK network services which are available 24 hours, 365 days per year and are run over fibre.</p> <p>This service is available at 1gE and STM4 bandwidths.</p> <p>This service is run over fibre with electronics at either end of the fibre.</p> <p>This service also includes all Ethernet cancellation revenue.</p> <p>Wholesale Extension Service (WES)</p> <p>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 Other Communications Provider’s network.</p> <p>This service is available at 10Mbit/s, 100Mbit/s, 155Mbit/s, 622Mbit/s and 1Gbit/s.</p> <p>This service captures the service management costs of the provision of a circuit. This service also includes WES LA variant that is the same service with only one local end.</p> <p>Backhaul extension Service (BES)</p> <p>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 Local Loop Unbundling (LLU) operator’s equipment at an unbundled MDF site and a site within an operator’s own network.</p> <p>This service is available at 1Gbit/s bandwidth.</p> <p>This service captures the service management costs of the provision of a circuit.</p> <p>Further technical specification can be found within Supplier Information Notes (SIN). SIN documents can be found at www.sinet.bt.com.</p>
<p>M311S39</p> <p>M311S40</p>	<p>Main Link Rental Charges Non-WECLA - Internal</p> <p>Main Link Rental Charges Non-WECLA - External</p> <p>Service offering:</p> <p>Fibre between BT serving exchanges used to connect the corresponding A-end Customer Site and B-end Customer Site at different serving exchanges.</p> <p>Further technical specification can be found within Supplier Information Notes (SIN). SIN documents can be at www.sinet.bt.com.</p>
<p>M311S41</p>	<p>Equipment Depreciation AISBO (up to and including 1Gbit/s) (Non-WECLA)</p> <p>Service offering:</p> <p>This service holds the duct and fibre depreciation relating to AISBO Non-WECLA Excess Construction Charges (ECCs).</p>

Published Service code	Service name and offering
M311S42	Excess Construction Charges Non-WECLA - Internal
M311S43	Excess Construction Charges Non-WECLA - External Service offering: Excess Construction Charges (ECCs) are raised to cover the cost of providing any additional construction work required to provide Ethernet product. 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. This service excludes the duct and fibre depreciation relating to ECCs.

Market: AISBO WECLA

Published Service code	Service name and offering
<p>M312S01</p> <p>M312S02</p>	<p>Wholesale Extension Services 10Mbit/s Rentals WECLA - Internal</p> <p>Wholesale Extension Services 10Mbit/s Rentals WECLA - External</p> <p>Service offering:</p> <p>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 communications provider's network.</p> <p>This service is available at 10Mbit/s bandwidth.</p> <p>This service is run over a point to point fibre with electronics at either end.</p> <p>Further technical specification can be found within Supplier Information Notes (SIN). SIN documents can be found at www.sinet.bt.com.</p> <p>This service also includes WES LA variant that is the same service with only one local end.</p>
<p>M312S03</p> <p>M312S04</p>	<p>Wholesale Extension Services 100Mbit/s Rentals WECLA - Internal</p> <p>Wholesale Extension Services 100Mbit/s Rentals WECLA - External</p> <p>Service offering:</p> <p>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 Other Communications Provider's network.</p> <p>This service is available at 100Mbit/s bandwidth.</p> <p>This service is run over a point to point fibre, with electronics at either end.</p> <p>Further technical specification can be found within Supplier Information Notes (SIN). SIN documents can be found at www.sinet.bt.com.</p> <p>This service also includes WES LA variant that is the same service with only one local end.</p>
<p>M312S05</p> <p>M312S06</p>	<p>Wholesale Extension Services 1Gbit/s Rentals WECLA - Internal</p> <p>Wholesale Extension Services 1Gbit/s Rentals WECLA - External</p> <p>Service offering:</p> <p>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 Other Communications Provider's network.</p> <p>This service is available at 1Gbit/s bandwidth.</p> <p>This service is run over a point to point fibre, with electronics at either end.</p> <p>Further technical specification can be found within Supplier Information Notes (SIN). SIN documents can be found at www.sinet.bt.com.</p> <p>This service also includes WES LA variant that is the same service with only one local end.</p>

Published Service code	Service name and offering
<p>M312S11</p> <p>M312S12</p>	<p>Ethernet Access Direct Local Access 10Mbit/s Rentals WECLA - Internal</p> <p>Ethernet Access Direct Local Access 10Mbit/s Rentals WECLA - External</p> <p>Service offering:</p> <p>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 Communications provider's network.</p> <p>This service is available at 10Mbit/s bandwidth.</p> <p>This service is run over a point to point fibre with one local end.</p> <p>Further technical specification can be found within Supplier Information Notes (SIN). SIN documents can be found at www.sinet.bt.com.</p>
<p>M312S13</p> <p>M312S14</p>	<p>Ethernet Access Direct Local Access 100Mbit/s Rentals WECLA - Internal</p> <p>Ethernet Access Direct Local Access 100Mbit/s Rentals WECLA - External</p> <p>Service offering:</p> <p>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 Communications provider's network.</p> <p>This service is available at 100Mbit/s bandwidth.</p> <p>This service is run over a point to point fibre with one local end.</p> <p>Further technical specification can be found within Supplier Information Notes (SIN). SIN documents can be found at www.sinet.bt.com.</p>
<p>M312S15</p> <p>M312S16</p>	<p>Ethernet Access Direct Local Access 1Gbit/s Rentals WECLA - Internal</p> <p>Ethernet Access Direct Local Access 1Gbit/s Rentals WECLA - External</p> <p>Service offering:</p> <p>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 Communications provider's network.</p> <p>This service is available at 1Gbit/s bandwidth.</p> <p>This service is run over a point to point fibre with one local end.</p> <p>Further technical specification can be found within Supplier Information Notes (SIN). SIN documents can be found at www.sinet.bt.com.</p>
<p>M312S17</p> <p>M312S18</p>	<p>Ethernet Access Direct Other 10Mbit/s Rentals WECLA - Internal</p> <p>Ethernet Access Direct Other 10Mbit/s Rentals WECLA - External</p> <p>Service offering:</p> <p>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 Communications provider's network.</p> <p>This service is available at 10Mbit/s bandwidth.</p> <p>This service is run over a point to point fibre with electronics at either end.</p> <p>Further technical specification can be found within Supplier Information Notes (SIN). SIN documents can be found at www.sinet.bt.com.</p>

Published Service code	Service name and offering
<p>M312S19</p> <p>M312S20</p>	<p>Ethernet Access Direct Other 100Mbit/s Rentals WECLA – Internal</p> <p>Ethernet Access Direct Other 100Mbit/s Rentals WECLA – External</p> <p>Service offering:</p> <p>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 Communications provider’s network.</p> <p>This service is available at 100Mbit/s bandwidth.</p> <p>This service is run over a point to point fibre with electronics at either end.</p> <p>Further technical specification can be found within Supplier Information Notes (SIN). SIN documents can be found at www.sinet.bt.com.</p>
<p>M312S21</p> <p>M312S22</p>	<p>Ethernet Access Direct Other 1Gbit/s Rentals WECLA – Internal</p> <p>Ethernet Access Direct Other 1Gbit/s Rentals WECLA – External</p> <p>Service offering:</p> <p>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 Communications provider’s network.</p> <p>This service is available at 1Gbit/s bandwidth.</p> <p>This service is run over a point to point fibre with electronics at either end.</p> <p>Further technical specification can be found within Supplier Information Notes (SIN). SIN documents can be found at www.sinet.bt.com.</p>
<p>M312S23</p> <p>M312S24</p>	<p>Ethernet Access Direct Local Access Connections WECLA – Internal</p> <p>Ethernet Access Direct Local Access Connections WECLA – External</p> <p>Service offering:</p> <p>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 Other Communications Provider’s network.</p> <p>This service is available at 10Mbit/s, 100Mbit/s, and 1Gbit/s bandwidths.</p> <p>This service captures the service management costs of the provision of a circuit.</p> <p>Further technical specification can be found within Supplier Information Notes (SIN). SIN documents can be found at www.sinet.bt.com.</p>
<p>M312S25</p> <p>M312S26</p>	<p>Ethernet Access Direct Other Connections WECLA – Internal</p> <p>Ethernet Access Direct Other Connections WECLA – External</p> <p>Service offering:</p> <p>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 Other Communications Provider’s network.</p> <p>This service is available at 10Mbit/s, 100Mbit/s, and 1Gbit/s bandwidths.</p> <p>This service captures the service management costs of the provision of a circuit.</p> <p>Further technical specification can be found within Supplier Information Notes (SIN). SIN documents can be found at www.sinet.bt.com.</p>

Published Service code	Service name and offering
<p>M312S36</p> <p>M312S27</p>	<p>Ethernet Backhaul Direct / Optical Network Backhaul Service Rentals WECLA - Internal</p> <p>Ethernet Backhaul Direct / Optical Network Backhaul Service Rentals WECLA - External</p> <p>Service offering:</p> <p>Permanently connected, point-to-point high speed data circuits that provide a secure and un-contended backhaul service for Other Communications Providers (OCP).</p> <p>Ethernet Backhaul Direct is available at 1Gbit/s bandwidth.</p> <p>It operates between a Communications Provider's (CP) Point of Presence (PoP) located in a designated Openreach Access Serving Node (ASN) in a BT Exchange (using CoLocation, NetLocate or BT Locate accommodation), and a CP's core network PoP located in either the designated Openreach Handover Point (OHP) or in the CP's own site, accessed using a Bulk Transport Link or alternative transport solution provided by the CP.</p>
<p>M312S28</p>	<p>Ethernet Backhaul Direct / Optical Network Backhaul Service Connections WECLA - External</p> <p>Service offering:</p> <p>Permanently connected, point-to-point high speed data circuits that provide a secure and un-contended backhaul service for Other Communications Providers (CPs).</p> <p>Ethernet Backhaul Direct is available at 1Gbit/s bandwidth.</p> <p>It operates between a Communications Provider's (CP) Point of Presence (PoP) located in a designated Openreach Access Serving Node (ASN) in a BT Exchange (using CoLocation, NetLocate or BT Locate accommodation), and a CP's core network PoP located in either the designated Openreach Handover Point (OHP) or in the CP's own site, accessed using a Bulk Transport Link or alternative transport solution provided by the CP.</p>
<p>M312S37</p>	<p>Ethernet Backhaul Direct / Optical Network Backhaul Service Connections WECLA - Internal</p> <p>Service offering:</p> <p>Permanently connected, point-to-point high speed data circuits that provide a secure and un-contended backhaul service for Other Communications Providers (CPs).</p> <p>Ethernet Backhaul Direct is available at 1Gbit/s bandwidth.</p> <p>It operates between a Communications Provider's (CP) Point of Presence (PoP) located in a designated Openreach Access Serving Node (ASN) in a BT Exchange (using CoLocation, NetLocate or BT Locate accommodation), and a CP's core network PoP located in either the designated Openreach Handover Point (OHP) or in the CP's own site, accessed using a Bulk Transport Link or alternative transport solution provided by the CP.</p>

Published Service code	Service name and offering
<p>M312S07</p> <p>M312S09</p>	<p>Other Ethernet Rentals WECLA - Internal</p> <p>Other Ethernet Rentals WECLA - External</p> <p>Service offering:</p> <p>Small value Ethernet services that serve a range of different Communications Provider requirements – this includes Bulk Transport Link, Broadcast Access, Street Access, CableLink, and Internal BES.</p> <p>This service also includes Backhaul Network Services (BNS).</p> <p>These are high speed UK network services which are available 24 hours, 365 days per year and are run over fibre.</p> <p>This service is available at 1gE and STM4 bandwidths.</p> <p>This service is run over fibre with electronics at either end of the fibre.</p> <p>Further technical specification can be found within Supplier Information Notes (SIN). SIN documents can be found at www.sinet.bt.com.</p>
<p>M312S08</p> <p>M312S10</p>	<p>Other Ethernet Connections WECLA - Internal</p> <p>Other Ethernet Connections WECLA - External</p> <p>Service offering:</p> <p>Small value Ethernet services that serve a range of different Communications Provider requirements – this includes Bulk Transport Link, Broadcast Access, Street Access, CableLink, and Internal BES.</p> <p>Backhaul Network Services (BNS)</p> <p>These are high speed UK network services which are available 24 hours, 365 days per year and are run over fibre.</p> <p>This service is available at 1gE and STM4 bandwidths.</p> <p>This service is run over fibre with electronics at either end of the fibre.</p> <p>This service also includes all Ethernet cancellation revenue.</p> <p>Wholesale Extension Service (WES)</p> <p>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 Other Communications Provider's network.</p> <p>This service is available at 10Mbit/s, 100Mbit/s, 155Mbit/s, 622Mbit/s and 1Gbit/s.</p> <p>This service captures the service management costs of the provision of a circuit. This service also includes WES LA variant that is the same service with only one local end.</p> <p>Backhaul extension Service (BES)</p> <p>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 Local Loop Unbundling (LLU) operator's equipment at an unbundled MDF site and a site within an operator's own network.</p> <p>This service is available at 1Gbit/s bandwidth.</p> <p>This service captures the service management costs of the provision of a circuit.</p> <p>Further technical specification can be found within Supplier Information Notes (SIN). SIN documents can be found at www.sinet.bt.com.</p>

Published Service code	Service name and offering
<p>M312S29</p> <p>M312S30</p>	<p>Main Link Rental Charges WECLA - Internal</p> <p>Main Link Rental Charges WECLA - External</p> <p>Service offering:</p> <p>Outline of Service</p> <p>Fibre between BT serving exchanges used to connect the corresponding A-end Customer Site and B-end Customer Site at different serving exchanges.</p> <p>Further technical specification can be found within Supplier Information Notes (SIN). SIN documents can be at www.sinet.bt.com.</p>
<p>M312S31</p>	<p>Equipment Depreciation AISBO WECLA</p> <p>Service offering:</p> <p>This service holds the duct and fibre depreciation relating to AISBO WECLA Excess Construction Charges (ECCs).</p>
<p>M312S32</p> <p>M312S33</p>	<p>Excess Construction Charges WECLA - Internal</p> <p>Excess Construction Charges WECLA - External</p> <p>Service offering:</p> <p>Excess Construction Charges (ECCs) are raised to cover the cost of providing any additional construction work required to provide Ethernet product.</p> <p>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. This service excludes the duct and fibre depreciation relating to ECCs.</p>

Market: MISBO non-WECLA

Published Service code	Service name and offering
<p>M321S01</p> <p>M321S02</p>	<p>Wholesale Extension Service / Backhaul Extension Service MISBO Connections Non-WECLA - Internal</p> <p>Wholesale Extension Service / Backhaul Extension Service MISBO Connections Non-WECLA - External</p> <p>Service offering:</p> <p>Wholesale Extension Service (WES)</p> <p>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 Other Communications Provider's network.</p> <p>This service is available above 1Gbit/s.</p> <p>This service captures the service management costs of the provision of a circuit.</p> <p>Further technical specification can be found within Supplier Information Notes (SIN). SIN documents can be found at www.sinet.bt.com.</p> <p>Backhaul Extension Service (BES)</p> <p>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 Local Loop Unbundling (LLU) operator's equipment at an unbundled MDF site and a site within an operator's own network.</p> <p>This service is available above 1Gbit/s bandwidth.</p> <p>This service captures the service management costs of the provision of a circuit.</p> <p>Further technical specification can be found within Supplier Information Notes (SIN). SIN documents can be found at www.sinet.bt.com.</p>
<p>M321S16</p>	<p>Ethernet Backhaul Direct / Openreach Network Backhaul Service MISBO Connections Non-WECLA - Internal</p> <p>Service offering:</p> <p>Ethernet Backhaul Direct (EBD) is an efficient, cost effective way of delivering large volumes of data, quickly and securely. It delivers permanently connected, uncontended bandwidth from an Access Serving Node (ASN) to an Openreach Handover Point (OHP).</p> <p>Openreach Network Backhaul Service (ONBS) provides connectivity between a Communications Provider's equipment installed within Co-location, Netlocate or BT Locate at a BT MSAN Site, and their equipment installed within Co-location, Netlocate or BT Locate at either the nearest BT MSAN Site, BT Metro Node Site or another BT MSAN Site or Metro Node Site that is within a distance of 15 radial kilometres of the first BT MSAN/Metro Site.</p> <p>It includes new provisions, migrations and regrades of services above 1Gbit/s.</p>
<p>M321S03</p>	<p>Ethernet Backhaul Direct MISBO Connections Non-WECLA - External</p> <p>Ethernet Backhaul Direct (EBD) is an efficient, cost effective way of delivering large volumes of data, quickly and securely. It delivers permanently connected, uncontended bandwidth from an Access Serving Node (ASN) to an Openreach Handover Point (OHP).</p> <p>It includes new provisions, migrations and regrades of services above 1Gbit/s.</p>

Published Service code	Service name and offering
M321S15	<p>Ethernet Backhaul Direct MISBO Rentals Non-WECLA - Internal</p> <p>Service offering:</p> <p>Ethernet Backhaul Direct (EBD) is an efficient, cost effective way of delivering large volumes of data, quickly and securely. It delivers permanently connected, uncontended bandwidth from an Access Serving Node (ASN) to an Openreach Handover Point (OHP).</p> <p>Openreach Network Backhaul Service (ONBS) provides connectivity between a Communications Provider's equipment installed within Co-location, Netlocate or BT Locate at a BT MSAN Site, and their equipment installed within Co-location, Netlocate or BT Locate at either the nearest BT MSAN Site, BT Metro Node Site or another BT MSAN Site or Metro Node Site that is within a distance of 15 radial kilometres of the first BT MSAN/Metro Site.</p> <p>It includes the ongoing service rental charges for services above 1Gbit/s.</p>
M321S04	<p>Ethernet Backhaul Direct MISBO Rentals Non-WECLA - External</p> <p>Service offering:</p> <p>Ethernet Backhaul Direct (EBD) is an efficient, cost effective way of delivering large volumes of data, quickly and securely. It delivers permanently connected, uncontended bandwidth from an Access Serving Node (ASN) to an Openreach Handover Point (OHP).</p> <p>It includes the ongoing service rental charges for services above 1Gbit/s.</p>
M321S51 M321S61	<p>Backhaul Extension Service MISBO Rentals Non-WECLA - Internal</p> <p>Backhaul Extension Service MISBO Rentals Non-WECLA - External</p> <p>Service offering:</p> <p>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 Local Loop Unbundling (LLU) operator's equipment at an unbundled MDF site and a site within an operator's own network.</p> <p>This service is available above 1Gbit/s bandwidth.</p> <p>This service captures the service management costs of the provision of a circuit.</p> <p>Further technical specification can be found within Supplier Information Notes (SIN). SIN documents can be found at www.sinet.bt.com.</p>
M321S05 M321S06	<p>Wholesale Extension Service MISBO Rentals Non-WECLA - Internal</p> <p>Wholesale Extension Service MISBO Rentals Non-WECLA - External</p> <p>Service offering:</p> <p>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 communications provider's network.</p> <p>This service is available above 1Gbit/s bandwidth.</p> <p>This service is run over a point to point fibre with electronics at either end.</p> <p>Further technical specification can be found within Supplier Information Notes (SIN). SIN documents can be found at www.sinet.bt.com.</p>

Published Service code	Service name and offering
M321S07	<p>Wholesale Extension Service / Backhaul Extension Service / Openreach Network Backhaul Service MISBO Main Link Rental Charges Non-WECLA - Internal</p> <p>Service offering:</p> <p>Wholesale Extension Service (WES)</p> <p>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 communications provider's network.</p> <p>This service is available above 1Gbit/s bandwidth.</p> <p>This service is run over a point to point fibre with electronics at either end.</p> <p>Further technical specification can be found within Supplier Information Notes (SIN). SIN documents can be found at www.sinet.bt.com.</p> <p>Backhaul extension Service (BES)</p> <p>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 Local Loop Unbundling (LLU) operator's equipment at an unbundled MDF site and a site within an operator's own network.</p> <p>This service is available above 1Gbit/s bandwidth.</p> <p>This service captures the service management costs of the provision of a circuit.</p> <p>Further technical specification can be found within Supplier Information Notes (SIN). SIN documents can be found at www.sinet.bt.com.</p> <p>Openreach Network Backhaul Service (ONBS)</p> <p>Openreach Network Backhaul Service (ONBS) provides connectivity between a Communications Provider's equipment installed within Co-location, Netlocate or BT Locate at a BT MSAN Site, and their equipment installed within Co-location, Netlocate or BT Locate at either the nearest BT MSAN Site, BT Metro Node Site or another BT MSAN Site or Metro Node Site that is within a distance of 15 radial kilometres of the first BT MSAN/Metro Site.</p> <p>It includes the ongoing service rental charges for services above 1Gbit/s.</p> <p>Further technical specification can be found within Supplier Information Notes (SIN). SIN documents can be found at www.sinet.bt.com.</p>

Published Service code	Service name and offering
M321S08	<p>Wholesale Extension Service / Backhaul Extension Service MISBO Main Link Rental Charges Non-WECLA – External</p> <p>Service offering:</p> <p>Wholesale Extension Service (WES)</p> <p>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 communications provider’s network.</p> <p>This service is available above 1Gbit/s bandwidth.</p> <p>This service is run over a point to point fibre with electronics at either end.</p> <p>Further technical specification can be found within Supplier Information Notes (SIN). SIN documents can be found at www.sinet.bt.com.</p> <p>Backhaul extension Service (BES)</p> <p>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 Local Loop Unbundling (LLU) operator’s equipment at an unbundled MDF site and a site within an operator’s own network.</p> <p>This service is available above 1Gbit/s bandwidth.</p> <p>This service captures the service management costs of the provision of a circuit.</p> <p>Further technical specification can be found within Supplier Information Notes (SIN). SIN documents can be found at www.sinet.bt.com.</p>
M321S09 M321S10	<p>Optical Services Connections Non-WECLA – Internal</p> <p>Optical Services Connections Non-WECLA – External</p> <p>Service offering:</p> <p>High speed, optical wavelength service delivered over point to point fibre 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 Other Communications Provider’s network.</p> <p>This service is available above 1Gbit/s.</p> <p>This service captures the service management costs of the provision of a circuit.</p> <p>Further technical specification can be found within Supplier Information Notes (SIN). SIN documents can be found at www.sinet.bt.com.</p>

Published Service code	Service name and offering
<p>M321S11</p> <p>M321S12</p>	<p>Optical Services Rentals Non-WECLA - Internal</p> <p>Optical Services Rentals Non-WECLA - External</p> <p>Service offering:</p> <p>High speed, optical wavelength service delivered over point to point fibre 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 Other Communications Provider's network.</p> <p>This service is available above 1Gbit/s.</p> <p>This service captures the service management costs of the provision of a circuit.</p> <p>Further technical specification can be found within Supplier Information Notes (SIN). SIN documents can be found at www.sinet.bt.com.</p>
<p>M321S13</p> <p>M321S14</p>	<p>Optical Services Main Link Rental Charges Non-WECLA - Internal</p> <p>Optical Services Main Link Rental Charges Non-WECLA - External</p> <p>Service offering:</p> <p>High speed, optical wavelength service delivered over point to point fibre 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 Other Communications Provider's network.</p> <p>This service is available above 1Gbit/s.</p> <p>This service captures the service management costs of the provision of a circuit.</p> <p>Further technical specification can be found within Supplier Information Notes (SIN). SIN documents can be found at www.sinet.bt.com.</p>

Market: Wholesale fixed analogue exchange lines

Published Service code	Service name and offering
<p>M11S01</p> <p>M11S02</p>	<p>Analogue Core WLR Rentals - Internal</p> <p>Analogue Core WLR Rentals - External</p> <p>Service offering: Rental, repair and maintenance of narrowband basic exchange line(s) within defined service parameters. Includes:</p> <ul style="list-style-type: none"> a) All direct engineering activity to complete maintenance to the customer premises from the local exchange concentrator. b) Engineering and network support activity. c) Reactive and preventative maintenance including line testing and fault handling. d) Sales, general and administration. e) Usage of capital equipment required to make the physical connection from the customer's premises to the local exchange concentrator (Network Termination Equipment (NTE), Dropwire, D-side and E-side cabling, main distribution frame and line card).
<p>M11S03</p> <p>M11S04</p>	<p>WLR Connections - Internal</p> <p>WLR Connections - External</p> <p>Service offering: The supply of a new WFAEL Basic service. This includes supply using a previously stopped MPF line, i.e. a line where the service it carried has been stopped or the connection of narrowband ordinary exchange line(s) within defined service parameters. This also includes cancellation of a connection. Includes:</p> <ul style="list-style-type: none"> a) All direct engineering activity and commissioning to complete connection to the customer premises, including line testing, from the Local Exchange concentrator. b) Engineering and network support activity. c) Sales, general and administration.
<p>M11S23</p> <p>M11S24</p>	<p>WLR Basic Simultaneously Provided Connections - Internal</p> <p>WLR Basic Simultaneously Provided Connections - External</p> <p>Service offering: Simultaneous provision of connection to WFAEL Basic Service and SMPF Service.</p>

Published Service code	Service name and offering
<p>M11S25 M11S26</p>	<p>WLR Transfers - Internal WLR Transfers - External</p> <p>Service offering:</p> <ul style="list-style-type: none"> - Working Line Takeover/Transfer or a takeover of previously stopped exchange lines - Conversions from ISDN2 - Number changes - Cancellation of a transfer <p>Includes:</p> <ol style="list-style-type: none"> a) Instances where internal Communications Providers request a new provision but Openreach can use a working line or start a previously stopped line. b) Instances where a customer moves from an external Communications Provider to an internal Communications Provider. c) Instances where a customer moves to an external Communications Provider either from another external Communications Provider or an internal Communications Provider.
<p>M11S27 M11S28</p>	<p>WLR Basic Simultaneously Provided Conversions - Internal WLR Basic Simultaneously Provided Conversions - External</p> <p>Service offering:</p> <p>Simultaneous provision of a WLR Basic Service and SMPF Services converted from an MPF line.</p>
<p>M11S29 M11S30</p>	<p>WLR Basic Conversions - Internal WLR Basic Conversions - External</p> <p>Service offering:</p> <p>The conversion of another service, such as MPF to WLR Basic.</p>
<p>M11S31 M11S32</p>	<p>Caller Display - Internal Caller Display - External</p> <p>Service offering:</p> <p>Presentation of a caller's number to the called party on their telephony equipment.</p>
<p>M11S10 M11S11</p>	<p>Time Related Charges - Internal Time Related Charges - External</p> <p>Service offering:</p> <p>Time Related Charges (TRCs) are raised to recover the cost incurred when our engineers perform work that is not covered under the terms of the Openreach service. These are TRCs associated with WFAEL.</p>

Published Service code	Service name and offering
<p>M11S35 M11S36</p>	<p>Analogue Premium Rentals - Internal Analogue Premium Rentals - External</p> <p>Service offering: Rental, repair and maintenance of narrowband premium and Featureline exchange line(s) within defined service parameters. Includes: a) All direct engineering activity and commissioning to complete maintenance to the customer premises from the local exchange concentrator. b) Engineering and network support activity. c) Reactive and preventative maintenance including line testing and fault handling. d) Sales, general and administration. e) Usage of capital equipment required to make the physical connection from the customer's premises to the local exchange concentrator (Network Termination Equipment (NTE), Dropwire, D-side and E-side cabling, main distribution frame and line card).</p>
<p>M11S39 M11S40</p>	<p>WLR Premium Transfers - Internal WLR Premium Transfers - External</p> <p>Service offering: Transfer/conversion of a Premium WFAEL service: a) Transfer from an existing Premium or Basic WFAEL service (including Working Line Takeover and Starting of Stopped lines) to a Premium WFAEL line. b) Conversion from an ISDN2 service to a Premium WFAEL line. c) Conversion from a Metallic Path Facility (MPF) service to a Premium WFAEL line.</p>
<p>M11S37 M11S38</p>	<p>WLR Premium Connections - Internal WLR Premium Connections - External</p> <p>Service offering: Connection of narrowband premium and Featureline exchange line(s) within defined service parameters. Includes: a) All direct engineering activity and commissioning to complete connection to the customer premises, including line testing, from the local exchange concentrator. b) Engineering and network support activity. c) Sales, general and administration. Note: the external service connections include both the premium and basic volumes.</p>
<p>M11S33 M11S34</p>	<p>Other WLR - Internal Other WLR - External</p> <p>Service offering: Includes services within the scope of the WFAEL Market but not separately reported, including Network Features and amendments to an order.</p>

Market: Wholesale ISDN2 exchange line services

Published Service code	Service name and offering
<p>M31S01</p> <p>M31S02</p>	<p>ISDN2 Rentals - Internal</p> <p>ISDN2 Rentals - External</p> <p>Service offering:</p> <p>Rental, repair and maintenance of Integrated Services Digital Network (ISDN2) exchange line(s) within defined service parameters. ISDN2 is a digital service that transforms the existing phone line by splitting its capacity into two channels allowing dual access.</p> <p>Includes:</p> <ul style="list-style-type: none"> a) All direct engineering activity to complete maintenance to the customer premises from the Local Exchange concentrator. b) Engineering and network support activity. c) Reactive and preventative maintenance including line testing and fault handling. d) Sales, general and administration. e) Usage of capital equipment required to make the physical connection from the customer's premises to the local exchange concentrator (NTE, Dropwire, D-side and E-side cabling, main distribution frame and line card).
<p>M31S03</p> <p>M31S04</p>	<p>ISDN2 Connections - Internal</p> <p>ISDN2 Connections - External</p> <p>Service offering:</p> <p>Connection of Integrated Services Digital Network (ISDN2) exchange line(s) within defined service parameters. ISDN2 is a digital service that transforms the existing phone line by splitting its capacity into two channels allowing dual access. This also includes cancellation of a connection.</p> <p>Includes:</p> <ul style="list-style-type: none"> a) All direct engineering activity and commissioning to complete connection to the customer premises, including line testing, from the Local Exchange concentrator. b) Engineering and network support activity. c) Sales, general and administration.
<p>M31S05</p> <p>M31S06</p>	<p>ISDN2 Takeovers/Transfers - Internal</p> <p>ISDN2 Takeovers/Transfers - External</p> <p>Service offering:</p> <p>ISDN2 is a digital service that transforms the existing phone line by splitting its capacity into two channels allowing dual access.</p> <ul style="list-style-type: none"> - Conversion of SMPF/MPF and WFAEL services to ISDN2 - Number change - Transfer between Communications Providers of an Integrated Services Digital Network (ISDN2) exchange line(s), including: <ul style="list-style-type: none"> a) Where an end customer transfers from an external to an internal Communications Provider. b) Where an end customer transfers to an external Communications Provider either from another external Communications Provider or from an internal Communications Provider.

Market: Wholesale business ISDN30 exchange line services

Published Service code	Service name and offering
<p>M27S03</p> <p>M27S04</p>	<p>ISDN30 Rentals – Internal</p> <p>ISDN30 Rentals – External</p> <p>Service offering:</p> <p>Repair, rental 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 its capacity channels allowing multiple access.</p> <p>Includes:</p> <ul style="list-style-type: none"> a) All direct engineering activity to complete maintenance to the customer premises from the Local Exchange concentrator. b) Engineering and network support activity. c) Reactive and preventative maintenance including line testing and fault handling. d) Sales, general and administration.
<p>M27S01</p> <p>M27S02</p>	<p>ISDN30 Connections – Internal</p> <p>ISDN30 Connections – External</p> <p>Service offering:</p> <p>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. This service includes bearer and channel connection charges. This also includes cancellation of an order.</p> <p>Includes:</p> <ul style="list-style-type: none"> a) All direct engineering activity and commissioning to complete connection to the customer premises from the Local Exchange concentrator. b) Engineering and network support activity. c) Sales, general and administration.
<p>M27S07</p> <p>M27S08</p>	<p>ISDN30 Enhanced Care – Internal</p> <p>ISDN30 Enhanced Care – External</p> <p>Service offering:</p> <p>Provision of enhanced service maintenance levels associated with ISDN30.</p>

Published Service code	Service name and offering
<p>M27S05 M27S06</p>	<p>ISDN30 Transfers - Internal ISDN30 Transfers - External</p> <p>Service offering: Transfer between Communications 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 its capacity channels allowing multiple access.</p> <p>Includes:</p> <ul style="list-style-type: none"> a) Where an end customer transfers from an external to an internal Communications Provider. b) Where an end customer transfers to an external Communications Provider from another external Communications Provider or from an internal Communications Provider. c) All direct engineering activity to complete transfer of the line(s) from Communications Provider to Communications Provider.
<p>M27S09 M27S10</p>	<p>ISDN30 Direct Dialling Planning - Internal ISDN30 Direct Dialling Planning - External</p> <p>Service offering: Planning Charge per DDI Installation or Change to Numbers at a DDI Installation.</p>
<p>M27S11 M27S12</p>	<p>ISDN30 Direct Dialling Connections - Internal ISDN30 Direct Dialling Connections - External</p> <p>Service offering: Connections per DDI Number at a DDI Installation (new orders can only be ordered in blocks of 10 or as a single DDI number).</p>

Market: Wholesale Local Access

Published Service code	Service name and offering
M29S29 M29S05	<p>MPF Rentals – Internal</p> <p>MPF Rentals – External</p> <p>Service offering: Rental of two wire point to point metallic transmission paths extending from the Network terminating point at the End User premises to the Line side of the Main Distribution Frame (MDF).</p>
M29S25 M29S01	<p>MPF New Provide Services – Internal</p> <p>MPF New Provide Services – External</p> <p>Service offering: Provision of two wire point to point metallic transmission paths extending from the Network terminating point at the End User premises to the Line side of the Main Distribution Frame (MDF). This includes new provides, re-use and working line takeover. This also includes cancellation of an order.</p>
M29S26 M29S02	<p>MPF Single Migrations – Internal</p> <p>MPF Single Migrations – External</p> <p>Service offering: A single transfer from WFAEL/SMPF or from one CP to another. This also includes cancellation of an order.</p>
M29S27 M29S03	<p>MPF Bulk Migrations – Internal</p> <p>MPF Bulk Migrations – External</p> <p>Service offering: A mass transfer from WFAEL/SMPF or from one CP to another. This also includes cancellation of an order.</p>
M29S39 M29S13	<p>SMPF Rentals – Internal</p> <p>SMPF Rentals – External</p> <p>Service offering: 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 Asymmetric Digital Subscriber Line (ADSL) over the same metallic pair.</p>
M29S32 M29S09	<p>SMPF New Provide Services – Internal</p> <p>SMPF New Provide Services – External</p> <p>Service offering: 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 Asymmetric Digital Subscriber Line (ADSL) over the same metallic pair.</p>

Published Service code	Service name and offering
<p>M29S33</p> <p>M29S10</p>	<p>SMPF Single Migrations - Internal</p> <p>SMPF Single Migrations - External</p> <p>Service offering:</p> <p>Transfer or change of CP or customer moving from Narrowband, MPF, or ISDN. This also includes cancellation of an order.</p>
<p>M29S34</p> <p>M29S11</p>	<p>SMPF Bulk Migrations - Internal</p> <p>SMPF Bulk Migrations - External</p> <p>Service offering:</p> <p>Transfer or change of CP or customer moving from Narrowband, MPF, or ISDN. This also includes cancellation of an order.</p>
<p>M29S07</p> <p>M29S06</p>	<p>Co-mingling New Provide and Rental Services - Internal</p> <p>Co-mingling New Provide and Rental Services - External</p> <p>Service offering:</p> <p>Building and maintenance of co-mingling bays to enable Local Loop Unbundling (LLU) operators to install their equipment. These services are a specified list of Co-mingling basket services as defined by Ofcom.</p> <p>Includes:</p> <ul style="list-style-type: none"> a) Erection of iron work. b) Provision of power and cooling. c) Lighting. d) Rack space. e) Cable runway. f) Charges for service and maintenance co-mingling.
<p>M29S31</p> <p>M29S08</p>	<p>Tie Cables - Internal</p> <p>Tie Cables - External</p> <p>Service offering:</p> <p>Internal tie cables provide connectivity from the Handover Distribution Frame (HDF) located in the Local Loop Unbundling (LLU) operator equipment space to the Main Distribution Frame (MDF). This covers both connection and rental activities. These services are a specified list of tie cable basket services as defined by Ofcom.</p>
<p>M29S28</p> <p>M29S41</p>	<p>Hard Cease Services - Internal</p> <p>Hard Cease Services - External</p> <p>Service offering:</p> <p>MPF and SMPF MDF Remove Jumper Order.</p>

Published Service code	Service name and offering
<p>M29S40</p> <p>M29S42</p>	<p>Other LLU Ancillary Services - Internal</p> <p>Other LLU Ancillary Services - External</p> <p>Service offering:</p> <p>A basket of Wholesale Local Access (WLA) ancillary services as defined by Ofcom. The service comprises of:</p> <ul style="list-style-type: none"> • SMPF Tie Pair Modification (3 working day lead time re-termination) • SMPF Tie Pair Modification (Multiple Re-termination) • MPF Tie Pair Modification (3 working day lead time) • MPF Tie Pair Modification (Multiple Re-termination) • Cancellation of MPF orders for Provide, Migration, Modification or Amend • Cancellation of SMPF orders for Provide, Migration, Modification or Amend • Amend orders, allowable change to MPF orders • Amend orders, allowable change to SMPF orders • MPF standard line test • SMPF standard line test • SMPF Flexi cease fault investigation charges
<p>M29S36</p> <p>M29S16</p>	<p>Special Faults Investigations - Internal</p> <p>Special Faults Investigations - External</p> <p>Service offering:</p> <p>SFI are raised when the copper path is working but the end customer has a problem with their broadband service.</p>
<p>M29S20</p> <p>M29S43</p>	<p>Time Related Charges - Internal</p> <p>Time Related Charges - External</p> <p>Service offering:</p> <p>Time Related Charges (TRCs) are raised to recover the cost incurred when our engineers perform work that is not covered under the terms of the Openreach service. These are TRCs associated with WLA services.</p>
<p>M29S37</p> <p>M29S17</p>	<p>VULA Migrations - Internal</p> <p>VULA Migrations - External</p> <p>Service offering:</p> <p>Migration from CP to CP for VULA rental services.</p>

Published Service code	Service name and offering
<p>M29S38</p> <p>M29S18</p>	<p>Other WLA - Internal</p> <p>Other WLA - External</p> <p>Service offering:</p> <p>Includes services that fall within the scope of the WLA market but are not separately reported. This includes:</p> <ul style="list-style-type: none"> - VULA services (except for CP to CP migrations) - Non-basket Co-mingling, tie cable and tie pair modification services - Electricity usage

Market: Call origination on fixed public narrowband networks

Published Service code	Service name and offering
M04S01	<p>Wholesale call originating local exchange segment PSTN and ISDN (excl. Operator Assistance) - Internal and External</p> <p>Service offering:</p> <p>Call duration for a call originating on a BT exchange line to the Local Exchange switch based on a 'pence per minute' cost.</p> <p>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: Remote Concentrator; Local Exchange switching; and Remote to Local Transmission Link and Length.</p> <p>Also includes:</p> <ul style="list-style-type: none"> a) Engineering and network support activity. b) Reactive and preventative maintenance including testing and fault handling. c) Billing systems. d) Product Management, Policy and Planning Services
M04S02	<p>Wholesale call originating local exchange segment (incl. Operator Assistance) - Internal and External</p> <p>Service offering:</p> <p>Call duration for a PSTN (Public Switched Telephone Network) or ISDN (Integrated Service Digital Network) call originating on a BT exchange line to the Local Exchange switch based on a 'pence per minute' cost.</p> <p>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: Remote Concentrator; Local Exchange switching; and Remote to Local Transmission Link and Length.</p> <p>Also includes:</p> <ul style="list-style-type: none"> a) Operator assistance and 999 calls. b) Engineering and network support activity. c) Reactive and preventative maintenance including testing and fault handling. d) Billing systems. e) Product Management, Policy and Planning Services
M04S04	<p>Wholesale call origination local exchange Stick (PSTN & ISDN) - Internal</p> <p>Service offering:</p> <p>Call Duration for a PSTN (Public Switched Telephone Network) and 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.</p> <p>Utilises the Remote Concentrator to Local Exchange Transmission Link and Length components. Also includes:</p> <ul style="list-style-type: none"> a) Engineering and network support activity. b) Reactive and preventative maintenance including testing and fault handling. c) Customer support charges d) Product Management, Policy and Planning Services

Market: Technical areas (Interconnect Circuits)

Published Service code	Service name and offering
M08S01	<p>Wholesale standard CSI connections – External</p> <p>Service offering: Provision of a Customer-Sited Interconnect (CSI) circuit – a 2Mbit/s Public Switched Telephone Network (PSTN) connection from BT’s exchange to the customer’s premises.</p> <p>Includes:</p> <ul style="list-style-type: none"> a) All direct engineering activity and commissioning to complete the connection. <p>Supplementary Services: To fulfil service connectivity, the following services are also required in conjunction with a CSI connection:</p> <ul style="list-style-type: none"> a) CSI Rental (fixed) – Non-distance rental of a CSI circuit. b) CSI rental per km – Distance-related rental of a CSI circuit. c) Intra Building Circuits (IBC) Connection – Provision of an Intra-building circuit. d) IBC Rental – Rental of an Intra-building circuit.
M08S02	<p>Wholesale standard CSI rentals - fixed – External</p> <p>Service offering: Non-distance related rental element of the inter-BT exchange part of a Customer Sited Interconnect (CSI) circuit.</p> <p>Includes:</p> <ul style="list-style-type: none"> a) A Local end – the access line (fibre/ copper/ radio and electronics). b) Transmission equipment at either end of the circuit. c) Engineering and network support activity. d) Reactive and preventative maintenance including line testing and fault handling. <p>Supplementary Services: To fulfil service connectivity, the following services are also required in conjunction with the non-distance related rental of a CSI circuit:</p> <ul style="list-style-type: none"> a) CSI Connection – Provision of a CSI circuit. b) CSI rental per km – Distance related rental of a CSI circuit. c) Intra Building Circuits (IBC) Connection – Provision of an Intra-building circuit. d) IBC Rental – Rental of an Intra-building circuit.

Published Service code	Service name and offering
<p>M08S03</p>	<p>Wholesale standard CSI rentals - per km – External</p> <p>Service offering: Distance related rental element of the inter-BT exchange part of a Customer Sited Interconnect (CSI) circuit. Includes:</p> <ul style="list-style-type: none"> a) Fibre, Duct and intermediate Transmission equipment (where circuits travel through more than one exchange). b) Reactive and preventative maintenance including line testing and fault handling. c) Engineering and network support activity. <p>Supplementary Services: To fulfil service connectivity, the following services are also required in conjunction with the distance related rental of a CSI circuit:</p> <ul style="list-style-type: none"> a) CSI Connection – Provision of a CSI circuit. b) CSI Rental (fixed) – Non-distance related rental of a CSI circuit. c) Intra Building Circuits (IBC) Connection – Provision of an Intra-building circuit. d) IBC Rental – Rental of an Intra-building circuit.
<p>M08S04</p>	<p>Wholesale IEC connections – External</p> <p>Service offering: Provision of an Interconnect Extension circuit – a 2Mbit/s connection used to extend an ISI circuit between the Multiplexor in a Remote Switch Connection and the Multiplexor terminating the ISI Interconnect Link. Includes:</p> <ul style="list-style-type: none"> a) All direct engineering activity and commissioning to complete the connection. <p>Supplementary Services: To fulfil service connectivity, the following services are required in conjunction with an IEC connection:</p> <ul style="list-style-type: none"> a) IEC (fixed) Rental – Non-distance related rental 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) Intra Building Circuits (IBC) Connection – Provision of an Intra-building circuit. f) IBC Rental – Rental of an Intra-building circuit.

Published Service code	Service name and offering
M08S05	<p>Wholesale IEC rentals - fixed – External</p> <p>Service offering: Non-distance related rental of a 2Mbit/s link used to extend an ISI circuit between the Multiplexor in a Remote Switch Connection and the Multiplexor terminating the ISI Interconnect Link.</p> <p>Includes:</p> <ul style="list-style-type: none"> a) Transmission equipment at either end of the IEC circuit. b) Reactive and preventative maintenance including line testing and fault handling. c) Engineering and network support activity. <p>Supplementary Services: To fulfil service connectivity, the following services are required in conjunction with the non-distance related rental of an IEC circuit:</p> <ul style="list-style-type: none"> 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) Intra Building Circuits (IBC) Connection – Provision of an Intra-building circuit. f) IBC Rental – Rental of an Intra-building circuit.
M08S06	<p>Wholesale IEC rentals - per km – External</p> <p>Service offering: Distance related rental (charged per km) of a 2Mbit/s link used to extend an ISI circuit between the Multiplexor in a Remote Switch Connection and the Multiplexor terminating the ISI Interconnect Link.</p> <p>Includes:</p> <p>Fibre, Duct and intermediate Transmission equipment (where the circuits cross more than one exchange).</p> <p>Reactive and preventative maintenance including line testing and fault handling.</p> <p>Engineering and network support activity.</p> <p>Supplementary Services: To fulfil service connectivity, the following services are required in conjunction with the distance-related rental of an IEC circuit:</p> <ul style="list-style-type: none"> a) IEC Connection – Provision of an Interconnect Extension circuit. b) IEC (fixed) Rental – Non-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) Intra Building Circuits (IBC) Connection – Provision of an Intra-building circuit. f) IBC Rental – Rental of an Intra-building circuit.

Published Service code	Service name and offering
M08S07	<p>Wholesale intra-building circuits connections – External</p> <p>Service offering: 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.</p> <p>Includes:</p> <ul style="list-style-type: none"> a) All direct engineering activity and commissioning to complete the connection. <p>Supplementary Services: To fulfil service connectivity, the following services are required in conjunction with the provision of an Intra-building circuit:</p> <ul style="list-style-type: none"> a) Customer Sited Interconnect (CSI) Connection – Provision of a CSI circuit. b) CSI Rental (fixed) – Non-distance related rental of a CSI circuit. c) CSI rental per km – Distance related rental of a CSI circuit. <p>OR</p> <ul style="list-style-type: none"> d) ISI Connection – Provision of an In-Span Interconnect circuit. e) ISI Rental – Rental of an In-Span Interconnect circuit. <p>Also, where interconnect is required beyond the adjacent exchange:</p> <ul style="list-style-type: none"> 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.
M08S08	<p>Wholesale intra-building circuits rentals – External</p> <p>Service offering: Rental of a link between a BT Switch Connection and the Interface on the Multiplexor forming part of an Interconnect Link.</p> <p>Includes:</p> <ul style="list-style-type: none"> a) Reactive and preventative maintenance including line testing and fault handling. b) Engineering and network support activity. <p>Supplementary Services: To fulfil service connectivity, the following services are required in conjunction with the rental of an Intra-building circuit:</p> <ul style="list-style-type: none"> a) Customer Sited Interconnect (CSI) Connection – Provision of a CSI circuit. b) CSI Rental (fixed) – Non-distance related rental of a CSI circuit. c) CSI rental per km – Distance related rental of a CSI circuit. <p>OR</p> <ul style="list-style-type: none"> d) ISI Connection – Provision of an In-Span Interconnect circuit. e) ISI Rental – Rental of an In-Span Interconnect circuit. <p>Also, where interconnect is required beyond the adjacent exchange:</p> <ul style="list-style-type: none"> 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.

Published Service code	Service name and offering
<p>M08S09</p>	<p>Wholesale ISI rentals – External</p> <p>Service offering:</p> <p>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/s Public Switched Telephone Network (PSTN) link from BT's Switch to the customer's Point of Connection (located in a junction box within 100m of the serving exchange).</p> <p>Includes:</p> <ul style="list-style-type: none"> a) Fibre and Duct. b) Reactive and preventative maintenance including line testing and fault handling. c) Engineering and network support activity. d) All direct engineering activity and commissioning to complete the connection. <p>Supplementary Services:</p> <p>To fulfil service connectivity, the following services are required in conjunction with the rental of an ISI circuit:</p> <ul style="list-style-type: none"> a) ISI Connection – Provision of an In-Span Interconnect circuit. b) Intra Building Circuits (IBC) Connection – Provision of an Intra-building circuit. c) IBC Rental – Rental of an Intra-building circuit. <p>Also, where interconnect is required beyond the adjacent exchange:</p> <ul style="list-style-type: none"> 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.
<p>M08S10</p>	<p>Nominated ISI – per km – External</p> <p>Service offering:</p> <p>Rental of ISI Interconnect Link from jointing chamber to BT premises.</p> <p>Includes:</p> <ul style="list-style-type: none"> a) Fibre and Duct. b) Reactive and preventative maintenance including line testing and fault handling. c) Engineering and network support activity. d) All direct engineering activity and commissioning to complete the connection. <p>Supplementary Services:</p> <p>To fulfil service connectivity, the following services are required in conjunction with the rental of an ISI circuit:</p> <ul style="list-style-type: none"> a) ISI Connection – Provision of an In-Span Interconnect circuit. b) Intra Building Circuits (IBC) Connection – Provision of an Intra-building circuit. c) IBC Rental – Rental of an Intra-building circuit. <p>Also, where interconnect is required beyond the adjacent exchange:</p> <ul style="list-style-type: none"> 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.

Published Service code	Service name and offering
M08S11	<p>Wholesale rearrangements – External</p> <p>Service offering:</p> <p>Rearrangement of Intra building circuits is 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).</p> <p>A change necessitating a 2Mbit/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 2Mbit/s Customer Sited Interconnect (CSI) Link.</p>

Market: Fixed call termination

Published Service code	Service name and offering
M09S01	<p>Wholesale call termination local exchange segment (PSTN & ISDN) – Internal</p> <p>Service offering:</p> <p>Call duration for a PSTN (Public Switched Telephone Network) or ISDN (Integrated Service Digital Network) call terminating on the Access network originating from a Local Exchange switch.</p> <p>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: Remote Concentrator; Local Exchange switching; and Remote to Local Transmission Link and Length.</p> <p>Also includes:</p> <ul style="list-style-type: none"> a) Engineering and network support activity. b) Reactive and preventative maintenance including testing and fault handling. c) Customer support charges. d) Product Management, Policy and Planning Services
M09S03	<p>Wholesale call termination local exchange stick (PSTN & ISDN) – Internal</p> <p>Service offering:</p> <p>Call duration for a PSTN (Public Switched Telephone Network) and ISDN (Integrated Service Digital Network) call terminating on the Access network originating from a Local Exchange switch.</p> <p>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: Remote Concentrator; and Remote to Local Transmission Link and Length.</p> <p>Does not include Local Exchange switching and is only applicable to BT-BT.</p> <p>Also includes:</p> <ul style="list-style-type: none"> a) Engineering and network support activity. b) Reactive and preventative maintenance including testing and fault handling. c) Customer support charges. d) Product Management, Policy and Planning Services.

Market: Wholesale broadband access – Market A

Published Service code	Service name and offering
<p>M181S03</p> <p>M181S05</p>	<p>IPstream Connect Max and Max Premium End User Access – Rental – Internal</p> <p>IPstream Connect Max and Max Premium End User Access – Rental – External</p> <p>Service offering:</p> <p>End user Asymmetrical Digital Subscriber Line Rental for the access network for IPstream Connect Max and Max Premium. Includes:</p> <ul style="list-style-type: none"> a) Openreach SMPF rental charges (EOI) b) Openreach tie cable charges and tie pair modifications (EOI) c) Openreach SFIs (EOI) d) Openreach Time related charges (EOI) e) DSLAM support f) DSLAM equipment g) Customer support charges h) Testing systems <p>Further technical specification regarding the service can be found within Supplier Information Notes (SIN) 485 'BT IPstream Connect Office, BT IPstream Connect Home, BT IPstream Connect Max & BT IPstream Connect Max Premium Products'. SIN documents can be found at www.sinet.bt.com.</p>
<p>M181S04</p> <p>M181S06</p>	<p>IPstream Connect Contracted Bandwidth per Mbit/s per node rental – Internal</p> <p>IPstream Connect Contracted Bandwidth per Mbit/s per node rental – External</p> <p>Service offering:</p> <p>Asymmetrical Digital Subscriber Line conveyance services for IPstream Connect Max and Max Premium, as well as IPstream Home and Office. This provides connectivity from the end user access to the Broadband Remote Access Server (BRAS). The service is charged on the amount of bandwidth used by the customer.</p> <p>Includes:</p> <ul style="list-style-type: none"> a) Customer support charges b) Broadband backhaul circuits c) DSLAM support d) DSLAM equipment e) Core Directors <p>Further technical specification regarding the service can be found within Supplier Information Notes (SIN) 485 'BT IPstream Connect Office, BT IPstream Connect Home, BT IPstream Connect Max & BT IPstream Connect Max Premium Products'. SIN documents can be found at www.sinet.bt.com.</p>

Published Service code	Service name and offering
<p>M181S13</p> <p>M181S14</p>	<p>IPstream Connect End User Re-grade - Internal</p> <p>IPstream Connect End User Re-grade - External</p> <p>Service offering:</p> <p>Re-grade charges for IPstream Connect are applicable when end users move from IPstream Connect Max to IPstream Connect Max Premium service (and vice versa).</p> <p>Further technical specification regarding the service can be found within Supplier Information Notes (SIN) 485 'BT IPstream Connect Office, BT IPstream Connect Home, BT IPstream Connect Max & BT IPstream Connect Max Premium Products'. SIN documents can be found at www.sinet.bt.com.</p>
<p>M181S08</p> <p>M181S20</p>	<p>IPstream Connect End User Migration - Internal</p> <p>IPstream Connect End User Migration - External</p> <p>Service offering:</p> <p>Migrations are one of the following scenarios:</p> <ul style="list-style-type: none"> a) End user migrates from one customer to another without change of product and speed. Available to all BT IPstream ADSL end users. b) End user migrates from one customer to another with change of product and speed. Available to all BT IPstream product family end users. A single charge is raised (re-grade and migration). c) When an end user requests a change of product this will be subject to a re-grade order, subsequent and separate to the migration order. <p>Further technical specification regarding the service can be found within Supplier Information Notes (SIN) 485 'BT IPstream Connect Office, BT IPstream Connect Home, BT IPstream Connect Max & BT IPstream Connect Max Premium Products'. SIN documents can be found at www.sinet.bt.com.</p>
<p>M181S09</p> <p>M181S21</p>	<p>IPstream Connect ADSL Cancellation - Internal</p> <p>IPstream Connect ADSL Cancellation - External</p> <p>Service offering:</p> <p>Where a customer requests cancellation of an End User Access order, as defined within the Conditions of Service, a one-off Single Payment Charge will be levied. The charge will be calculated on the number of Working Days between the date the customer requests the cancellation and the Original Delivery Date (ODD). ODD is the initial agreed installation date.</p> <p>Further technical specification regarding the service can be found within Supplier Information Notes (SIN) 485 'BT IPstream Connect Office, BT IPstream Connect Home, BT IPstream Connect Max & BT IPstream Connect Max Premium Products'. SIN documents can be found at www.sinet.bt.com.</p>

Published Service code	Service name and offering
<p>M181S01</p> <p>M181S02</p>	<p>Other IPstream Connect Market – Internal</p> <p>Other IPstream Connect Market – External</p> <p>Service offering:</p> <p>Other IPstream Connect services are:</p> <ul style="list-style-type: none"> a) Communication Provider (CP) Handover – Charges for any services related to the connection by the communication provider to IPstream, such service currently being known as IPstream Connect Communications Provider (CP) Handover. b) 20C Interconnection Links 1Gbit/s and 10Gbit/s – Charges for any service provided by BT to connect between any of the handover points for IPstream and the communication provider’s network, such service currently being known as IPstream Connect Interconnect Links. c) IPstream Connections – End user Asymmetrical Digital Subscriber Line Connection for the access network for IPstream Connect products. Enables Other Communication Providers access to multiple End Users via Broadband enabled Local exchanges. d) IPstream Home and Office Rentals – End user Asymmetrical Digital Subscriber Line Rental for the access network for IPstream Connect Home and Office. e) IPstream Bandwidth per end user charge – End user bandwidth charge based on number of access rentals, charged monthly. <p>Further technical specification regarding the service can be found within Supplier Information Notes (SIN) 485 ‘BT IPstream Connect Office, BT IPstream Connect Home, BT IPstream Connect Max & BT IPstream Connect Max Premium Products’. SIN documents can be found at www.sinet.bt.com.</p>
<p>M181S16</p> <p>M181S22</p>	<p>Cease Basket – Internal</p> <p>Cease Basket – External</p> <p>Service offering:</p> <p>End User Cease Services: Any service required to disconnect an end user connected to an exchange in Market A from any wholesale broadband access product provided in Market A.</p>
<p>M181S15</p> <p>M181S18</p>	<p>WBC Connections – Internal</p> <p>WBC Connections – External</p> <p>Service offering:</p> <p>End user Asymmetrical Digital Subscriber Line and Fibre to the Cabinet/Premise Connection for the access network for Wholesale Broadband Connect products. Enables Other Communication Providers access to multiple End Users via Broadband enabled Local exchanges.</p> <p>Further technical specification regarding the service can be found within Supplier Information Notes (SIN) 472 ‘BT Wholesale Broadband Connect (WBC) Products’. SIN documents can be found at www.sinet.bt.com.</p>

Published Service code	Service name and offering
<p>M181S07</p> <p>M181S09</p>	<p>WBC End User Access - Rental - Internal</p> <p>WBC End User Access - Rental - External</p> <p>Service offering:</p> <p>End user Asymmetrical Digital Subscriber Line and Fibre to the Cabinet/Premise Rental for the access network for Wholesale Broadband Connect Includes:</p> <ul style="list-style-type: none"> a) Connect includes: b) Openreach SMPF rental charges (EOI) for Asymmetrical Digital Subscriber Line rentals c) Openreach tie cable charges (EOI) d) Openreach SFIs (EOI) e) Openreach GEA (EOI) for Fibre to the Cabinet/Premise rentals f) Openreach time related charges (EOI) g) Ethernet Switch and MSAN (Multi Service Access Node) Access h) Combi Cards i) Customer support charges j) Testing systems <p>Further technical specification regarding the service can be found within Supplier Information Notes (SIN) 472 'BT Wholesale Broadband Connect (WBC) Products'. SIN documents can be found at www.sinet.bt.com.</p>
<p>M181S8</p> <p>M181S10</p>	<p>WBC Bandwidth – Internal</p> <p>WBC Bandwidth – External</p> <p>Service offering:</p> <p>Asymmetrical Digital Subscriber Line and Fibre to the Cabinet/Premise conveyance services for Wholesale Broadband Connect. This provides connectivity from the end user access to the Broadband Remote Access Server (BRAS). The service is charged on amount of bandwidth used by the customer.</p> <p>Includes:</p> <ul style="list-style-type: none"> a) Openreach Ethernet Backhaul Direct and Ethernet Access Direct (EOI) b) Core/Metro c) Edge Ethernet ports d) Metro Core Broadband Transmission e) Metro BRAS and MSE f) Customer support charges g) Ethernet switches <p>Further technical specification regarding the service can be found within Supplier Information Notes (SIN) 472 'BT Wholesale Broadband Connect (WBC) Products'. SIN documents can be found at www.sinet.bt.com.</p>

Published Service code	Service name and offering
<p>M181S17</p> <p>M181S19</p>	<p>WBC Ancillary Charges & other – Internal</p> <p>WBC Ancillary Charges & other - External</p> <p>Service offering:</p> <p>WBC Ancillary services are:</p> <p>a) WBC Handover - Charges for any services related to the connection by the Communications Provider to WBC, such service currently being known as WBC Aggregation Point national coverage (combined with IPsc CP Handover option).</p>
<p>M181S11</p> <p>M181S12</p>	<p>Other WBA Market A - Internal</p> <p>Other WBA Market A – External</p> <p>Service offering:</p> <p>Other WBA services are:</p> <p>a) Chargeable SFIs</p> <p>b) Other Ancillaries</p> <p>c) SMPF Enhanced Care</p> <p>d) SMPF Expedite</p> <p>e) Broadband Boost</p>

Published Service to Service mappings including EOI flags

The mapping of all of Published Services (listed in the above section) to the underlying Services which they encompass and the identification of where a service is supplied under our Equivalence of Input (EOI) obligations as part of the undertakings has been separately published on our website in the Wholesale Catalogue 2015-16 Published Service to Service mapping.