# Narrowband & IP Exchange Reference Offer

#### Introduction

BT is required to publish Reference Offers in relation to services provided within SMP designated markets. BT published such Offers on btwholesale.com in accordance with regulatory requirements.

This document provides links to the relevant pages and documentation on btwholesale.com where the published Reference Offers for both PSTN and IP are contained.

In the Fixed Narrowband market, following the 2017 Market Review by Ofcom, the requirement for a Reference Offer applies to:

#### **PSTN Interconnect**

- Call Termination at the Local Exchange
- Call Origination at the Local Exchange
- Interconnect Circuits at the Local Exchange

The Standard Interconnect Agreement (SIA) provides the contractual framework for PSTN Interconnect Services. It should however be recognised that the SIA governs both regulated and unregulated services.

#### **IP Exchange**

For IP Exchange, the reference offer applies to Call Termination only.

The VoIP Main Conditions provides the contractual framework for IP Exchange Services.

Issued by: Jo Sandhawalia 23 July 2018

## PSTN Interconnect

### Condition 6 – Publication of a Reference Offer, Section 6.2

Para	Description	Links
6.2.a	a description of the network access to be provided, including technical characteristics (which shall include information on network configuration where necessary to make effective use of the access);	BT Network Description: https://www.btwholesale.com/pages/static/help-and-support/network-information.htm
6.2.b	the locations at which network access will be provided:	Network Information Publication Principles (NIPP): https://www.btwholesale.com/pages/static/help-and-support/network-information.htm
6.2.c	any relevant technical standards for network access (including any usage restrictions and other security issues);	Standard Interconnect Agreement (SIA) Telephony. I/C Spec 0100, I/C Spec 0120, I/C Spec 0200 & I/C Spec 0300: https://www.btwholesale.com/pages/static/help-and-support/regulatory.htm
6.2.d	the conditions for access to ancillary, supplementary and advanced services (including operational support systems, information systems or databases for preordering, provisioning, ordering, maintenance and repair requests and billing);	Interconnect Schedules (various): https://www.btwholesale.com/pages/static/help-and-support/regulatory.htm
6.2.e	any ordering and provisioning procedures;	SIA Annex A (Planning and Operations): https://www.btwholesale.com/pages/static/help-and-support/regulatory.htm  Interconnect Provisioning Manual: https://www.btwholesale.com/pages/static/help-and-support/product-documentation.htm
6.2.f	relevant charges, terms of payment and billing procedures;	SIA Main Section para 14: https://www.btwholesale.com/pages/static/help-and-support/regulatory.htm  SIA Annex B (Billing and Payment): https://www.btwholesale.com/pages/static/help-and-support/regulatory.htm  Carrier Price List: https://www.btwholesale.com/pages/static/help-and-support/pricing/carrier-price-lists.htm  Billing Manual: https://www.btwholesale.com/pages/static/help-and-support/product-documentation.htm
6.2.g	details of interoperability tests;	Testing Manuals: https://www.btwholesale.com/pages/static/help-and-support/product-documentation.htm
6.2.h	details of traffic and network management	SIA Annex A (Planning and Operations): https://www.btwholesale.com/pages/static/help-and- support/regulatory.htm

6.2.i.i	details of maintenance and quality as follows:	SIA Main Section para 6:
	specific time scales for the acceptance or refusal of a	https://www.btwholesale.com/pages/static/help-and- support/regulatory.htm
	request for supply and for completion, testing and	
	hand-over or delivery of services and facilities, for	SIA Annex A (Planning and Operations):
	provision of support services (such as fault handling	https://www.btwholesale.com/pages/static/help-and-
	and repair);	support/regulatory.htm
		Operations & Maintenance Manual:
		https://www.btwholesale.com/pages/static/help-and-
		support/product-documentation.htm
6.2.i.ii	details of maintenance and quality as follows:	SIA Main Section para 6:
		https://www.btwholesale.com/pages/static/help-and-
	service level commitments, namely the quality	support/regulatory.htm
	standards that each party must meet when	CIA Assess A (Disposis as and Ossestians)
	performing its contractual obligations;	SIA Annex A (Planning and Operations): https://www.btwholesale.com/pages/static/help-and-
		support/regulatory.htm
		Operations C Maintenance Manual
		Operations & Maintenance Manual: https://www.btwholesale.com/pages/static/help-and-
		support/product-documentation.htm
6.2.i.iii	details of maintenance and quality as follows:	There are no SLGs for the Interconnect product set under the SIA
	the amount of compensation payable by one party to	under the JiA
	another for failure to perform contractual	
	commitments	
6.2.i.iv	details of maintenance and quality as follows:	SIA Main Section para 23:
0.2.1.10	details of maintenance and quality as follows.	https://www.btwholesale.com/pages/static/help-and-
	a definition and limitation of liability and indemnity;	support/requiatory.htm
6.2.i.v	details of maintenance and quality as follows:	SIA Main Section para 4:
		https://www.btwholesale.com/pages/static/help-and-
	procedures in the event of alterations being proposed	support/regulatory.htm
	to the service offerings, for example, launch of new	
	services, changes to existing services or change to	Charge Change Manual: https://www.btwholesale.com/pages/static/help-and-
	prices;	support/regulatory.htm
		5
		Pricing Notifications: https://www.btwholesale.com/pages/static/help-and-
		support/pricing.htm
6.2:		CIA Main Costion page 16
6.2.j	details of measures to ensure compliance with	SIA Main Section para 16: https://www.btwholesale.com/pages/static/help-and-
	requirements for network integrity;	support/regulatory.htm
6.2.		
6.2.k	details of any relevant intellectual property rights;	SIA Main Section para 24:
		https://www.btwholesale.com/pages/static/help-and- support/regulatory.htm
6.2.1	a dispute resolution procedure to be used between the	SIA Main Section para 26:
٠.٢.١	parties	https://www.btwholesale.com/pages/static/help-and-
J.2.1	parties	l support/regulatory.htm
V.Z.I	parties	support/requiatory.htm
6.2.m	details of duration and renegotiation of agreements	SIA Main Section para 2:

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6.2.n	provisions regarding confidentiality of the agreements;	SIA Main Section para 21: https://www.btwholesale.com/pages/static/help-and-support/regulatory.htm  Confidentiality Agreement: https://www.btwholesale.com/pages/static/help-and-support/regulatory.htm
6.2.0	rules of allocation between the parties when supply is limited (for example, for the purpose of co-location or location of masts)	Not relevant
6.2.p	the standard terms and conditions for the provision of network access;	SIA Main Section: https://www.btwholesale.com/pages/static/help-and-support/regulatory.htm

### **PSTN Interconnect Useful links**

Billing manuals	https://www.btwholesale.com/pages/static/help-and-
3	support/product-documentation.htm
Billing manual	
New Services manual	
Electronic DMA template	
Contract Management manual	
BT Network Description	https://www.btwholesale.com/pages/static/help-and-
BT Network Beschphori	support/network-information.htm
BT Network Description	<u> </u>
NIPP Annex A	
NIPP Annex B	
Carrier Price List	https://www.btwholesale.com/pages/static/help-and-
	support/pricing/carrier-price-lists.htm
Customer Service Plans (CSPS):	https://www.btwholesale.com/pages/static/help-and-
	support/product-documentation.htm
<ul> <li>Interconnect</li> </ul>	2-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
Carrier Pre-Selection & DEDS	
NIPP Data Files	https://www.btwholesale.com/pages/static/help-and-
	support/network-information.htm
	<u>sapporqueenom monnadomica</u>
Operations & Maintenance Manuals	https://www.btwholesale.com/pages/static/help-and-
	support/product-documentation.htm
O&M Manual	
Interconnect Link fault template	
Interconnect Network fault template	
Pricing Notification	https://www.btwholesale.com/pages/static/help-and-
	support/pricing.htm
	<u>Support pricingment</u>
Provisioning manual	https://www.btwholesale.com/pages/static/help-and-
. To visioning manda.	support/product-documentation.htm
	<u>sapport product documentation</u>
Standard Interconnect Agreement	https://www.btwholesale.com/pages/static/help-and-
	support/regulatory.htm
Testing Manuals	https://www.btwholesale.com/pages/static/help-and-
<u> </u>	support/product-documentation.htm
<ul> <li>Validation testing</li> </ul>	
<ul><li>Validation testing</li><li>Integration testing</li></ul>	

# IP Exchange

### Condition 6 – Publication of a Reference Offer, Section 6.2

Para	Description	Links
6.2.a	a description of the network access to be provided, including technical characteristics (which shall include information on network configuration where necessary to make effective use of the access);	IP Exchange Technical Description, Section 3: https://www.btwholesale.com/pages/static/products- services/ip-exchange.htm#accProducts=4
6.2.b	the locations at which network access will be provided:	IP Exchange Technical Description, Section 3.8 & Annexe A: <a href="https://www.btwholesale.com/pages/static/products-services/ip-exchange.htm#accProducts=4">https://www.btwholesale.com/pages/static/products-services/ip-exchange.htm#accProducts=4</a>
6.2.c	any relevant technical standards for network access (including any usage restrictions and other security issues);	IP Exchange Technical Description, Section 2: https://www.btwholesale.com/pages/static/products- services/ip-exchange.htm#accProducts=4
6.2.d	the conditions for access to ancillary, supplementary and advanced services (including operational support systems, information systems or databases for preordering, provisioning, ordering, maintenance and repair requests and billing);	Product Handbooks (various): https://www.btwholesale.com/pages/static/products- services/ip-exchange.htm#accProducts=4
6.2.e	any ordering and provisioning procedures;	Provisioning Handbooks: <a href="https://www.btwholesale.com/pages/static/products-services/ip-exchange.htm#accProducts=4">https://www.btwholesale.com/pages/static/products-services/ip-exchange.htm#accProducts=4</a>
6.2.f	relevant charges, terms of payment and billing procedures;	Fixed Termination Rate charges the same as Carrier Price List Section B1.01, namely 0.0323p per minute:  https://www.btwholesale.com/paqes/static/help-and-support/pricing/carrier-price-lists.htm  Main Conditions, Sections 10, 11 & 12: https://www.btwholesale.com/paqes/static/products-services/ip-exchange.htm#accProducts=3  Product Handbook Section 8: https://www.btwholesale.com/paqes/static/products-services/ip-exchange.htm#accProducts=4
6.2.g	details of interoperability tests;	Product Handbook, section 9: <a href="https://www.btwholesale.com/pages/static/products-services/ip-exchange.htm#accProducts=4">https://www.btwholesale.com/pages/static/products-services/ip-exchange.htm#accProducts=4</a>
6.2.h	details of traffic and network management	IP Exchange Technical Description): <a href="https://www.btwholesale.com/pages/static/products-services/ip-exchange.htm#accProducts=4">https://www.btwholesale.com/pages/static/products-services/ip-exchange.htm#accProducts=4</a>
6.2.i.i	details of maintenance and quality as follows:  specific time scales for the acceptance or refusal of a request for supply and for completion, testing and hand-over or delivery of services and facilities, for provision of support services (such as fault handling and repair);	Product Handbook, sections 9 & 11: https://www.btwholesale.com/pages/static/products-services/ip-exchange.htm#accProducts=4

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6.2.i.ii	details of maintenance and quality as follows:	VoIP Main Conditions:
	service level commitments, namely the quality	https://www.btwholesale.com/pages/static/products- services/ip-exchange.htm#accProducts=3
	standards that each party must meet when	services/ip-exchange.htm#accr10ducts=5
	performing its contractual obligations;	
6.2.i.iii	details of maintenance and quality as follows:	There are no SLG' payments for the IP Exchange
		product.
	the amount of compensation payable by one party to another for failure to perform contractual	
	commitments	
6.2.i.iv	details of maintenance and quality as follows:	VoIP Main Conditions, sections 14: https://www.btwholesale.com/pages/static/products-
	a definition and limitation of liability and indemnity;	services/ip-exchange.htm#accProducts=3
6.2.i.v	details of maintenance and quality as follows:	VoIP Main Conditions, section 4: https://www.btwholesale.com/pages/static/products-
	procedures in the event of alterations being proposed	services/ip-exchange.htm#accProducts=3
	to the service offerings, for example, launch of new	
	services, changes to existing services or change to	BT IP Exchange Annex A National Rates: https://www.btwholesale.com/pages/static/products-
	prices;	services/ip-exchange.htm#accProducts=3
6.2.j	details of mossures to ansure someliness with	VoIP Main Conditions, section 18.3:
0.2.	details of measures to ensure compliance with requirements for network integrity;	https://www.btwholesale.com/pages/static/products-
	requirements for network integrity,	services/ip-exchange.htm#accProducts=3
6.2.k	details of any relevant intellectual property rights;	VoIP Main Conditions, section 7:
		https://www.btwholesale.com/pages/static/products-services/ip-exchange.htm#accProducts=3
6.2.1	a dispute resolution procedure to be used between the	VoIP Main Conditions, section 17:
	parties	https://www.btwholesale.com/pages/static/products-
		services/ip-exchange.htm#accProducts=3
6.2.m	details of duration and renegotiation of agreements	VoIP Main Conditions, section 17:
		https://www.btwholesale.com/pages/static/products- services/ip-exchange.htm#accProducts=3
		services/ip exchange.htm#acchroducts—3
6.2.n	provisions regarding confidentiality of the agreements;	VoIP Main Conditions, section 8:
		https://www.btwholesale.com/pages/static/products- services/ip-exchange.htm#accProducts=3
		services/ip exchange.htm#acci roducts=5
6.2.0	rules of allocation between the parties when supply is	Not relevant
	limited (for example, for the purpose of co-location or	
	location of masts)	
6.2.p	the standard terms and conditions for the provision of	VoIP Main Conditions:
	network access;	https://www.btwholesale.com/pages/static/products- services/ip-exchange.htm#accProducts=3
		Services/IP exchange.htm#accr10uucts=3

### IP Exchange Useful links

Pricing & Contracts	https://www.btwholesale.com/pages/static/help-and- support/pricing/carrier-price-lists.htm
<ul> <li>Carrier Price List Section B1.01</li> </ul>	support/pricing/current price lists.htm
Product Handbooks & Technical  IP Exchange Product Handbook IP Exchange Pre Pay Handbook IP Exchange Number Portability Handbook IP Exchange Sub Allocation Handbook IP Exchange Carrier Preselect Termination Handbook IP Exchange Technical Description IP Exchange SDIN Development Handbook IP Exchange Trouble Ticket Template IP Exchange Fault Reporting portal Comms IP Exchange Order Form IP Exchange Provisioning Test Calls Spreadsheet	https://www.btwholesale.com/pages/static/products-services/ip-exchange.htm#accProducts=4
Credit Vetting Policy	https://www.btwholesale.com/pages/static/help-and-support/contracts.htm
Customer Service Plans (CSPS):  • IP Exchange	https://www.btwholesale.com/pages/static/help-and-support/product-documentation.htm
<ul> <li>Support &amp; Tools</li> <li>Accessing the Wholesale Voice Portal Via btwholesale.com</li> <li>Raise a Trouble Ticket</li> <li>Amend a Trouble Ticket</li> <li>Accept or Reject a Clear</li> <li>Cancel a Trouble Ticket</li> <li>Track a Trouble Ticket</li> </ul>	https://www.btwholesale.com/pages/static/products-services/ip-exchange.htm#accProducts=5