

CP1329 – Communication Requirements Document Redline Text v1.0

Section 1 – Section 1.4 No changes

Amendment to Section 2: Addition of new definition to Section 2.1 ‘List of Acronyms’

2.1 List of Acronyms

The following is a list of acronyms used in this document:

The following is a list of acronyms used in this document:

ADSL – Asymmetric Digital Subscriber Line
BMRA - Balancing Mechanism Reporting Agent
BPITs – Business Process Integration Tests
BSC - Balancing and Settlement Code
BSC CSA – BSC Central Services Agent
CCP – Credit Cover Percentage
CDCA - Central Data Collection Agent
CIR - Committed Information Rate
CPU – Central Processing Unit
CRA - Central Registration Agent
DNS - Domain Name System
DR - Disaster Recovery
ECVAA - Energy Contract Volume Aggregation Agent
ECVNA - Energy Contract Volume Notification Agent
EWS – ECVAA Web Service
FAA - Funds Administration Agent
FTP - File transfer protocol
GSP – Grid Supply Point
IA – Interconnector Administrator
ISDN - Integrated Services Digital Network
ISP - Internet Service Provider
LAN - Local Area Network
LDSO- Licensed Distribution System Operator
MOA – Meter Operator Agent
MIDP – Market Index Data Provider
MPLS – Multi Protocol Label Switching

MVRNA – Metered Volume Reallocation Notification Agent
NAT – Network Address Translation
NATs - Network Access Tests

NTP - Network Time Protocol
PartID – Participant ID
PCIG – Participant Communications Installation Guide
OpenPGP – Open Source Pretty Good Privacy

PVC - Permanent Virtual Circuit
RVD - Rendezvous Daemon
RVRD - Rendezvous Routing Daemon
SAA - Settlement Administration Agent
SMRA – Supplier Meter Registration Agent
SVA –Supplier Volume Allocation
TAA – Technical Assurance Agent
TCP/IP - Transmission Control Protocol/Internet Protocol
UTC - Co-ordinated Universal Time
XSec – Participant Security Package

Amendments to existing definitions in Section 2.2 ‘List of Definitions’

2.2 List of Definitions

Unless the context otherwise requires and save where otherwise defined in this document, terms and expressions defined in the Code shall have the same meaning in this document.

Communication Requirements Document Specific Definition(s)

Normal Business Hours	9.00 a.m. to 5.00 p.m. ¹ Monday to Friday on a Working Day.
PARTICIPANT	Parties, Party Agents and others that communicate or intend to communicate with BSC Agents.
Qualification	Recognition that a BSC Party or Party Agent has satisfied the communication requirements specified under Section O of the BSC, and that these systems have been tested according to this document.
Qualification Statement	Certificate Statement of Qualification issued by <u>the BSC CSA on behalf of BSCCo</u> on completion of Qualification.
Qualification Tests/Qualification Test	Tests undertaken by a Qualifying Participant. The tests provide the appropriate level of assurance that the necessary communication links between the Qualifying Participant and BSC Agents will function correctly under operational conditions.

¹ Please note that certain BSC Central Services do operate outside of these core hours.

Receipt of Data	Data received by the CRA, SAA and CDCA BSC Services (other than meter readings) outside of Normal Working Hours are deemed to have been received at 08:00 on the next day.
Service Provider	The Company who provides the electronic communications service medium through which Parties and Party Agents communicate with the BMRA, CRA, CDCA, ECVA and SAA.
Service Security Office	A Service Provider designated Office which is responsible for managing the security of the system. Contact details of the Service Security Office are published in BSCCo circulars.
User Licence	A licence allocated to an individual in a Party not to a Party.
Waiver	Recognition that a Qualifying Participant is sharing facilities with another Participant who has previously satisfied the Qualification requirements, and as such that Qualification Tests would be duplicated if undertaken by the Qualifying Participant.
XSec	Security software provided by the Service Provider.

Section 3 –Section 4.4 – No Changes

Amendments to Section 4.5 ‘Security’: Update references of Service Providers Helpdesk with BSC Service Desk

4.5 Security

The network is designed to prevent external unauthorised penetration, in accordance with commercial security standards, including the use of firewalls at the Service Provider site.

Both grades of service provide Participant data confidentiality and originator authentication for file transfer between Participant site and Service Provider site.

This is accomplished using the security utility (XSec) provided by the Service Provider that supports OpenPGP encryption. The management of the security keys is handled through the Service Provider.

The passwords used when connecting with the system must be changed at regular intervals to comply with security standards, as determined by the Service Provider. Currently, XSec keys are scheduled to expire after five years.

If Participants become aware of a security breach or wish to change their keys and passwords before the scheduled expiry time, they should immediately contact the BSC Service Desk~~Service Provider’s Helpdesk or Service Security Office~~. Participants and the Service Provider must make all reasonable endeavours to maintain the security of the system, and correct any weaknesses revealed. The Service Provider may decide to take additional security measures and transmit security instructions to Participants, as necessary. ~~The contact details for the Service Security Office will be published in BSCCo circulars from time to time.~~

Sections 4.5.1 – 4.6.1 – No Changes

Amendment to section 4.6.1 ‘Network Connections’: Update to footnote in bullet point 4 in relation to the provision of a router (please note that this is footnote number 3 in the current version of the CRD)

4.6.1 Network Connections

The High Grade Service consists of a number of MPLS connection options and are detailed as follows:

Technical Specification	Line Options								
	HG1a	HG1b	HG2a	HG2b	HG3a	HG3b	HG4	DR1	DR2
Primary Line Rental:									
256Kb Lease Line	✓	✓	✗	✗	✗	✗	✗	✗	✓
512Kb Lease Line	✗	✗	✓	✓	✗	✗	✗	✗	✗
1Mb Lease Line	✗	✗	✗	✗	✓	✓	✗	✗	✗
2Mb ADSL	✗	✗	✗	✗	✗	✗	✓	✓	✗
Backup Line Rental:									
ISDN Backup	✗	✓	✗	✓	✗	✓	✓	✗	✗
2Mb ADSL Backup	✓	✗	✓	✗	✓	✗	✗	✗	✗
Support:									
5 Hour Fix on Primary Line	✓	✓	✓	✓	✓	✓	✗	✗	✓
24 Hour Fix on Primary Line	✗	✗	✗	✗	✗	✗	✓	✓	✗
1-1 Contention Ratio	✓	✓	✓	✓	✓	✓	✗	✗	✓
20-1 Contention Ratio	✗	✗	✗	✗	✗	✗	✓	✓	✗

In addition to protect against loss of the connection to the MPLS network a backup ADSL or Basic Rate ISDN line will be provided.

Variations to this standard specification to support, for example, multiple participants using the same High Grade Service will be handled by the BSCCo, in conjunction with the Service Provider, on a case by case basis.

The geographic scope of supply for communication lines is the United Kingdom. Participants who wish the connection termination to be outside the United Kingdom are required to contact BSCCo to make specific arrangements with the Service Provider.

The service includes the provision of a router with the following characteristics:

- the router will support TCP/IP;
- the interface presented on the Participant side of the private network router will be Ethernet 10/100 BaseT; and
- the router will support Network Address Translation (NAT), and the Service Provider will liaise with the Participant to ensure that the correct IP address space translations are configured.
- Participants shall order TIBCo software through BSCCo with signed Licences being returned to the Service Provider.²

Housekeeping amendments to Section 4.6.2 ‘Software’: Deletion of extra bullet point

4.6.2 Software

The software is:

- Participant Security Package, XSec.
- TIBCo Software³.



Housekeeping amendments to Section 4.9 ‘Management of service’: Update references of Service Providers Helpdesk with BSC Service Desk and merging of section 4.10 due to duplication of text.

4.9 Management of service and Failure

The Participant acquires a fully managed service for High Grade Services which includes the maintenance of the communication lines, router, and software provided. The Service Provider operates ~~a help desk, the~~ **BSC Service Desk**. Full contact details can be obtained from BSCCo through the following email address: market.entry@elexon.co.uk.

Deletion of Section 4.10 due to duplication of text with Section 4.9.

4.10 ~~Failure~~ This section is no longer in use

~~**The Participant acquires a fully managed service for High Grade Services which includes the maintenance of the communication lines, router, and software provided. The Service Provider operates a help desk, the BSC Service Desk. Full contact details can be obtained from BSCCo.**~~

² Participants may also use any existing TIBCO licences available to their organisation or procure TIBCO licences other than from BSCCo to access the BSC Central System TIBCO service.

³ The TIBCo Software is optional and will be at an additional charge.

Sections 4.11 – 4.15 – No Changes

Amendments to Section 4.16 ‘Testing of Participants’ Communication’: Update text to cross reference BSCP 70 and the BSC CSA

4.16 Testing of Participants’ Communication’

Participants’ ability to communicate with the BSC Agents will be tested, with the exception of Non Party access to the BMRS via the High Grade Service. This testing will encompass Qualification Tests – where the ability of Participants to send and to receive appropriate flows (as defined in the Data File Catalogue) as part of an integrated business activity will be tested.

BSC Parties and CVA MOAs are able to opt out of some or all tests if they so choose. It should be understood that this shall be entirely at their own risk.

ECVNAs and MVRNAs will need to complete all the tests. ~~Therefore, All~~ flows in any one of the groups defined in the tables below must be successfully tested before any flows in that group may be used.

Testing is initiated by the Participant ~~registering a request with BSCCo as outlined in BSCP70~~ help desk. ~~CVA~~ Qualification Tests and Applications for Waivers of ~~CVA~~ Qualification testing will be undertaken in accordance with BSCP70 and successful completion of ~~CVA~~ Qualification will be notified by means of a Qualification Statement issued by ~~BSCCo~~ the BSC CSA on behalf of BSCCo.

Parties or Party Agents who have not registered to use either the High Grade service or the Low Grade service and who have elected not to receive any electronic data flows by completing the procedure defined in BSCP41 – Reporting Requests & Authorisation will not be required to undertake tests relating to any electronic data flows. Such tests, if requested by the Party or Party Agent, will be undertaken at the point when the Party or Party Agent registers to use either the High Grade service or the Low Grade service.

Where a Party or Party Agent shares an administrative organisation or software with another Party or Party Agent, tests relating to any specific flow may be waived at the discretion of BSCCo on production of evidence that the specific flow has previously been successfully tested using the same version and configuration of the software which is involved in generating or receiving the flow. Such a waiver is not automatic and BSCCo may require tests to be undertaken where there is any doubt as to the degree of sharing of administrative function, the identification of the software product or module, the nature of the configuration or any other matter of doubt.

Any intention of changes to software that may directly affect one or more data flows must be notified by the Party to BSCCo. BSCCo may require Participants to re-test if a significant risk to interfaces is identified.

Sections 4.17 – 8 – No Changes