

**UK LINK ACCESS DOCUMENT**

**UKLAD2**

**UK LINK REQUIRED EQUIPMENT**

---

---

**Version Control**

<b>Version</b>	<b>COR</b>	<b>Date of Change</b>	<b>Changes</b>	<b>Author</b>
1 For Approval	-	June 2017	Update to reflect implementation of UNC Modification 0565A.	David Addison
1.1		July 2017	Amendments following peer review.	Jayne McGlone

---

VERSION CONTROL .....	2
1. PURPOSE OF THIS DOCUMENT .....	<b>ERROR! BOOKMARK NOT DEFINED.</b>
1.1 Introduction .....	<b>Error! Bookmark not defined.</b>
2. INFRASTRUCTURE REQUIREMENTS .....	4
2.1 Proposed Utilisation by UK Link User or External UK Link User .....	4
2.2 Equipment and Software Required by Users .....	4
2.3 Equipment required by Users .....	5
2.3.1 CDSP Available Equipment .....	5
2.3.2 UK Link User Equipment .....	6
2.3.2.1 Active Notification Devices .....	6
2.3.2.2 XP1 .....	6
2.4 Software required by Users .....	6
2.4.1 Licensed Software .....	6
2.4.2 CDSP Provided Software .....	6
2.4.3 UK Link User Software .....	7
2.5 Benchmark UK Link Configuration .....	7
2.6 Updates of CDSP Available Software .....	7
2.7 Operational Environment .....	7
2.8 Relocation of CDSP Available Equipment .....	8
APPENDIX A: UK LINK USER EQUIPMENT OPTIONS .....	9

---

---

**Version: [ ]**

**Effective Date: [ ]**

## 1. Introduction

1.1 This document (Document), setting out the hardware, software and telecommunications which a UK Link User requires in order to access UK Link and the configurations for such equipment and software on which UK Link has been designed and tested to operate, is the UK Link Access Document UKLAD2 – UK Link Required Equipment referred to in paragraph 2.1.1 (c)(ii) of the UK Link Manual Framework Document.

1.2 This Document is an integral part of and is incorporated in the UK Link Manual.

1.3 The version of this Document that is in force and the date from which it is in force, are as stated above.

### 1.4 In this Document:

- (a) Terms defined in the DSC Terms and Conditions and not otherwise defined in this Document shall have the meaning given in the DSC Terms and Conditions;
- (b) Terms defined in any other CDSP Service Document and not otherwise defined in this Document shall have the meaning given in the CDSP Service Document;
- (c) Terms defined in the UK Link Manual Framework Document and not otherwise defined in this Document shall have the meaning given in the UK Link Manual Framework Document; and
- (d) The further provisions of the DSC Terms and Conditions as to interpretation apply.

1.5 This Document may be changed in accordance with the applicable procedures contained in the Change Management Procedures.

1.6 The purpose of this Document is to set out the hardware and software components that are necessary for each type of UK Link User requires to access UK Link.

1.7 For the purposes of this Document, references to a UK Link User exclude the CDSP.

1.8 In the case of the any conflict between the provisions of this Document and the UK Link Terms and Conditions the UK Link Terms and Conditions shall prevail.

1.9 UNC GT D5.2.3 applies in respect of the Document, and accordingly the provisions of this Document are binding on the UK Link Users.

## 2. INFRASTRUCTURE REQUIREMENTS

### 2.1 Proposed Utilisation by UK Link User

Where a UK Link User requires access to the Gemini UK Link Online Service or the file transfer facilities through the UK Link Network an assessment will be undertaken to determine the required size of the Gateway and the bandwidth of the telecommunication lines. UK Link Users are classified by expected usage based on the User Organisation Type and portfolio.

### 2.2 Equipment and Software Required by Users

---

---

In order to access the UK Link Network and UK Link Gemini Online Services, a UK Link User will need to have either certain equipment and software installed; a kit sharing arrangement; or use of User Agent.

For access to UK Link Gemini Online Services a User shall require:

- a PC
- a Network Access Point (NAP) with a registered IP address
- a telecommunication line

For access to the batch transfer service via the UK Link Network a UK Link User requires:

- a PC file server (to fulfil the functions of the Gateway) with a registered IP address and Windows operating system
- a NAP with a registered IP address
- a telecommunication line
- the CDSP specified file transfer software package

The same NAP, with a registered IP address and telecommunication line can be used for any of the above services.

For access to the UK Link services provided via the internet a UK Link User shall require:

- a device capable of accessing internet services
- a Network Access Point (NAP) with a registered IP address
- compatible web browser for the relevant UK Link Service as defined in UK Link Business Document UKLBD2 – UK Link IS Service Definition

For access to the Active Notification System a UK Link User requires the necessary Active Notification Device recommended by the Transporters. This service is not provided by the CDSP so is outside the scope of this document. This service is operated by National Grid NTS.

The equipment and software provided by the CDSP is described in Sections 2.3 and 2.4 below.

## **2.3 Equipment required by UK Link Users**

The equipment described in Section 2.2 above, can be broken down into the following categories:

### **2.3.1 CDSP Available Equipment**

The following hardware is provided by CDSP and is the “CDSP Available Equipment” for the purposes of the UK Link Manual Terms and Conditions:

- Telecommunication lines
- NAP equipment
- Gateway
- Equipment rack to house the hardware

There are different options in relation to the CDSP Available Equipment as the specification of the Gateway and telecommunication lines provided to a UK Link User will vary depending on the expected and actual usage volumes of the UK Link User. Specification may also be dictated by other factors, such as site location and other local factors.

In determining the size of the Gateway and the bandwidth of the telecommunication lines, UK Link Users are classed by expected usage based on the User Type and portfolio. The CDSP will recommend a Gateway configuration and bandwidth which it will agree with the UK Link User prior to installation. The standard options in relation to the CDSP Available Equipment are set out in Appendix A of this Document.

---

---

CDSP Available Equipment may be upgraded from time to time in accordance with the DSC Change Management Procedures or relevant TPS Agreement.

### **2.3.2 UK Link User Equipment**

A UK Link User is not permitted to access the UK Link Network directly using the supplied Gateway since local logons are disabled. This is to avoid the UK Link User affecting performance by installing software on the Gateway other than that installed by the CDSP. Each UK Link User therefore requires at least one PC which it can use to transfer files to and from the Gateway and/or to access UK Link Gemini Online services.

Multiple access points can be provided using a UK Link User's own internal PC networks. The CDSP does not supply the PCs which UK Link Users must use to access UK Link.

#### **2.3.2.1 Active Notification Devices**

The Active Notification System is supported by National Grid NTS. The Active Notification Devices are not provided by the CDSP or National Grid NTS, but the Active Notification Devices must be consistent with the any specification defined in the UK Link Manual Supplementary Document – Active Notification System Supplementary Document and capable of receiving Active Notification communications.

#### **2.3.2.2 XP1**

XP1 is currently provided as a contingency solution to all UK Link Users in mainland UK requiring access to UK Link Gemini. It consists of a security access token, and Users access information. Its continued use is subject to review as part of the DSC Change Management Procedures.

## **2.4 Software required by UK Link Users**

The software which a UK Link User needs to have installed on equipment at its own premises is broken down into the following categories:

### **2.4.1 Licensed Software**

The terms of licence for Licensed Software are contained in the UK Link Terms and Conditions.

The following Licensed Software is:

- [None]

The Licensed Software will be upgraded and/or modified from time to time as the Benchmark UK Link Configuration is updated.

### **2.4.2 CDSP Available Software**

The following software is provided by the CDSP and is the “CDSP Available Software” for the purposes of the UK Link Terms and Conditions:

- Microsoft Windows operating system
- Virus checking software

The first two items on this list are loaded onto the UK Link User's Gateway.

The CDSP Available Software will be upgraded from time to time in accordance with the UK Link Modification Procedures.

---

---

### 2.4.3 UK Link User Software

The following Licensed Software must be downloaded by the UK Link User:

- Citrix client

### 2.5 Benchmark UK Link Configuration

[None]

### 2.6 Updates of CDSP Available Software

In accordance with the UK Link Terms and Conditions, the CDSP will notify each UK Link User of any update required to the version of the Software.

Notification of the change will be provided in accordance with the DSC Change Management Procedure, or for UK Link Users that are not DSC Customers in accordance with the procedure agreed with such UK Link User. This notification shall provide the means that the Software update shall be made.

Updates to Software installed may be made by the following means:

- deployed centrally by the CDSP e.g. to a User Gateway or NAP
- an engineer visit instructed by the CDSP and arranged with the User
- provision by the CDSP of an updated version (e.g. via a physical copy on disk) or where an updated version is available (e.g. a website link)

Any updates to Software installed on UK Link User Equipment will be made by notifying the UK Link User to update the software at a specified date and time, and where appropriate, the method that the UK Link User shall obtain the updated software.

It is the responsibility of each UK Link User, on the date and at the time notified to the UK Link User by the CDSP, to:

- Carry out any necessary reconfiguration of its internal computer system: and
- Install any update to Software on its internal equipment.

### 2.7 Operational Environment

The equipment supplied by the CDSP does not have any special operating environment requirements other than those recommended by the equipment manufacturers and contained within relevant EU and UK Health & Safety legislation. Each installation will be site specific with the following requirements:

- for maintenance purposes, a clear working area of one metre is required at the front and rear of the rack. This can be achieved by moving the rack into free working space;
- for maintenance purposes, the Gateway requires a clear working area of one metre on all sides. Again, this can be achieved by moving the Gateway into clear working space;
- for operational purposes the Gateway requires a clear air flow front and back;
- the operating environment for all equipment should not be excessively dusty or smoky;
- the operating temperature must be in the range 10-40°C; and the operating humidity must be in the range 10-90% relative humidity.

The CDSP will not install any CDSP Available Equipment if these requirements cannot be met.

---

---

## 2.8 Relocation of CDSP Available Equipment

All relocations of the CDSP Available Equipment will be carried out by the CDSP approved personnel and is chargeable.

Relocation of CDSP Available Equipment may impact on the load and traffic on part of the UK Link Network and may also require installation of new telecommunications lines.

If a UK Link User wishes to relocate UK Link User Equipment (with the exception of the Active Notification Device), it must notify the CDSP Service Desk. The relevant notice period is 45 Business Days.

The CDSP will determine procedures for each relocation on a case-by-case basis and use its reasonable endeavours to ensure that relocations are completed within the relevant notice period. The CDSP will arrange for the telecommunications provider to relocate the telecommunications circuits. The CDSP will agree a date for the relocation with the UK Link User and will give an estimate of the costs to be incurred.

In the case of an emergency which, in the reasonable opinion of the UK Link User is causing or is likely to cause damage to the CDSP Available Equipment, a UK Link User may temporarily relocate such equipment provided that the UK Link User shall notify the CDSP of any such relocation within one Business Day and shall allow the CDSP to undertake any checks which, in its reasonable opinion, are deemed necessary to ensure that the equipment is functioning normally and continues to fulfil the requirements.

---

---

## Appendix A: UK Link User Equipment Options

### Option 1 - Low cost option for standard customer sites with no access restrictions.

- The hardware that will be installed is 1 x Cisco 2901 router and 1 x HP DL120 or 1x HP ML110 rack mount server (with rails provided). 2 x DSL circuits. Devices are 1U and require 1 x 13amp power supply for each device.
- Subject to availability of access, circuits and distance from serving exchange. May need to be upgraded to Option 2 or 3 if access/circuits unavailable.
- Engineer's names cannot be obtained prior to site visit.

### Option 2 -Where Both circuits cannot be provided over DSL

- The hardware that will be installed is 1 x Cisco 2901 Router and 1x HP DL120 or 1x HP ML110 Server either 1U rack mount or small tower. Primary link presented via 2Mb EFM (Ethernet First Mile) or PPC (Partial Private Circuit). Backup link presented via Business Grade ADSL (BGADSL) 16.
- When EFM/PPC circuit are used there may be additional hardware installed. Total power requirements are 2 x 13amp sockets, but could be up to 4 x 13amp sockets required.
- Engineer's names cannot be obtained prior to site visit.

### Option 3 - Provided where DSL option is unavailable. Suitable for data centres with strict access requirements,

- The hardware that will be installed is 1 x Single Cisco 2901 Router and 1x HP DL120 or 1x HP ML110 either 1U rack mount or small tower
- Primary link presented via 2Mb EFM (Ethernet First Mile) or PPC (Partial Private Circuit)  
Backup link presented via 2Mb EFM (Ethernet First Mile) or PPC (Partial Private Circuit)
- When EFM/PPC circuit are used there may be additional hardware installed. Total power requirements are 2 x 13amp sockets, but could be up to 4 x 13amp sockets required.  
Engineer's names can be obtained prior to site visit.

### [Option 4 – not currently used]

- 

**Please note:** the hardware is owned and supported by a third party. Following service installation any faults/issues can be raised via CDSP Service Desk. The IP addresses/ports for CDSP systems are fixed

and will be provided at a later date. The Cisco router will have one Ethernet interface for connection onto your network device. The IP address for this interface and your source addresses will need to be agreed prior to equipment installation.