



**A Guide to
EDT, EDL and CT
with National Grid**

Issue 1, December 2016

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Introduction

This is a high level overview of EDT, EDL and Control Telephony. Lines of responsibility between National Grid and external parties are described.

Informing NG of requirement

The BMU registration process should aim to be started with National Grid at least 6 months prior to connection date. This timescale is especially crucial if new EDT/EDL/CT are required, due to the long lead times of around 6 months for completion of these.

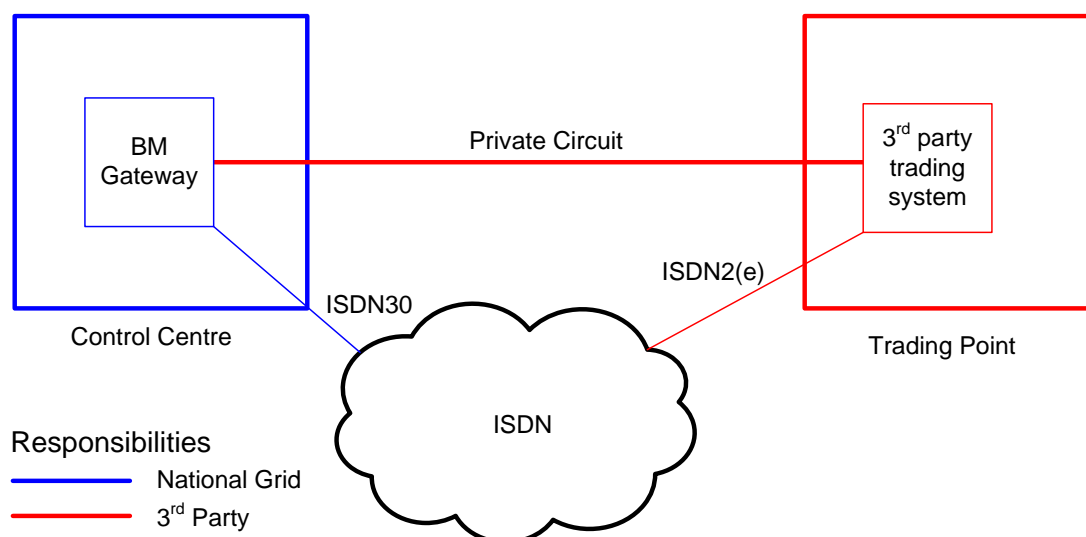
These lead times should also be borne in mind if there are any changes to BMU details regarding Trading Points or Control Points that require new EDT or EDL.

At all times National Grid will require completion of the NG BMU registration form (obtained by contacting BMU.registration@nationalgrid.com) to be informed of requirements and new EDT/EDL/CT requests.

EDT

EDT is the responsibility of the 3rd party generation company/trader. They are responsible for providing the communications link from their Trading Point to either Wokingham and/or Warwick.

High Level EDT Connectivity- Scotland and Offshore



Current technologies are 64kbit/s private circuit, with ISDN back-up or ISDN connection only. An IP service (e.g. MPLS) may also be supported, subject to technical review. Internet connectivity is not supported.

After connectivity is established to the National Grid BM gateway, NG will arrange for Network Access Tests (NATS).

IP Address Allocation: IP addresses will be allocated by Vodafone during the provisioning process and will be communicated to the nominated 3rd party contact at an appropriated stage during delivery.

Registration

Once the service is connected and NATS tested, the 3rd party will be added to the NG BM test systems and Business Process Interface Testing (BPITs) undertaken.

EDT questions

The communications for Trading Points (Trading Agents) are via EDT.

Set up a new Trading Point

The details should be provided to National Grid on the NG registration form (contact BMU.Registration@nationalgrid.com to obtain). The BMUs associated should be named. The NG registration form would be completed either for a new BMU or to inform of changes for a BMU.

The BMU registration team will request for NG IS to contact you regarding technical aspects of EDT. The majority of the liaison would be between yourselves and NG IS. The BMU registration team will register the details of the Trading Point and issue the Trading Agent ID to you and log in details upon your completion of the process with IS.

Moving the Trading Point

The EDT costs would still be your responsibility.

The BMU registration team can update the details of the Trading Point if informed of any changes to the existing details via the NG registration form.

If the location has changed, inform National Grid via the NG registration form, and the effective from date required.

The BMU registration team can put you in touch with NG IS re any testing once you have moved and are ready

MPLS or ISDN?

As EDT would be in your scope the decision would be yours either to go for ISDN or MPLS. However standard MPLS connectivity takes longer duration to implement & the request should be initiated at the earliest from your end to Vodafone. If you decide for MPLS then you will need to Order through Vodafone as NG is on Vodafone MPLS network.

For ISDN you can order ISDN connectivity from local service provider.

Changing the IT used in EDT

If changing the IT used in your EDT - eg. changing the type of line used for EDT, you would still keep the same IP details and log ins. No refresh from NG side is necessary. You may wish to send some test data though, to check it works ok. But NG do not need to refresh or test.

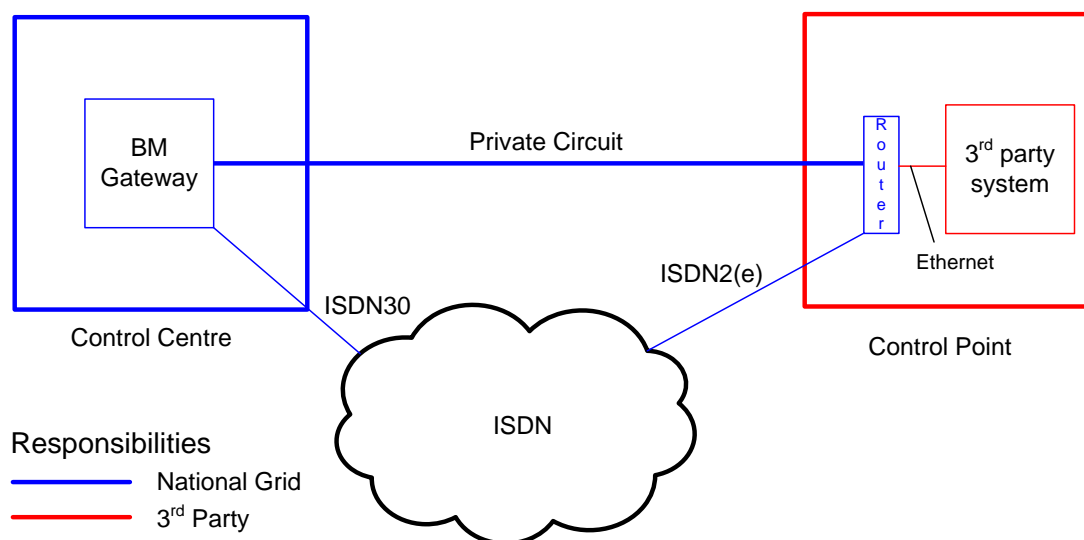
Change of Trading Agent

If the trading agent has changed, and NG has processed the changes for you for the effective from date requested, you do not need to wait for the effective date to reach before submitting data to NG. You can submit data up to 5 days in advance to avoid missing any gate closure deadlines.

EDL

In the UK mainland, EDL is the responsibility of National Grid. For Offshore Control Points, in order to provide a consistent approach to the required standard which is fully supported, it is recommended that EDL is provided by National Grid and costs are re-charged to the 3rd party (both connection costs and ongoing costs).

High Level EDL Connectivity- Scotland and Offshore



Current technologies are 64kbit/s private circuit, with ISDN back-up. An IP service (e.g. MPLS) may also be supported, subject to technical review. Internet connectivity is not supported.

National Grid will undertake technical liaison with the 3rd party, install and commission the EDL Router, establish connectivity to the NG BM gateway, and undertake Network Access Tests (NATS).

IP Address Allocation: IP addresses will be allocated by Vodafone during the provisioning process and will be communicated to the nominated 3rd party contact at an appropriated stage during delivery.

Registration

Once the service is connected and NATS tested, the 3rd party will be added to the NG BM test systems and Business Process Interface Testing (BPITs) undertaken.

EDL Questions

Setting up a new Control Point

The details should be provided to National Grid on the NG registration form (contact BMU.Registration@nationalgrid.com to obtain). The BMUs associated should be named. The NG registration form would be completed either for a new BMU or to inform of changes for a BMU.

The BMU registration team will request for NG IS to contact you regarding technical aspects of EDL and CT. The majority of the liaison would be between yourselves and NG IS.

The BMU registration team will register the details of the Control Point in the meantime, and upon your completion of the process with IS, will send you the EDL certificates.

Moving the Control Point

The BMU registration team can update the details of the Control Point if informed of any changes to the existing details via the NG registration form.

Please inform National Grid via the NG registration form, and the effective from date required.

The BMU registration team will put you in touch with NG IS to clarify details regarding the Control Point move.

NG IS will wish to ascertain answers to these:

Q1. Are you planning to move your Control Centre? (for this, movement of Control Telephony link may be required)

Q2. Are you planning to move your EDL connectivity? (For this movement of the EDL link will be required)

The movement cost depends upon the type of move (EDL or CT or both). Once you confirm the answers to the above Q.s, an engagement request will be raised to VF and proposals will be received. Actual costs are only known once NG have proposals from VF.

Control Telephony

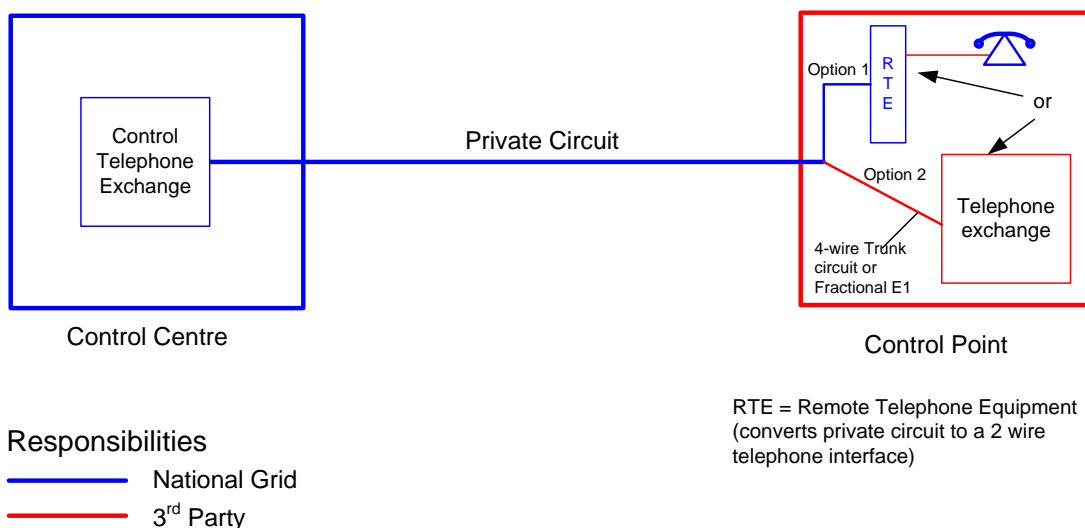
Control Telephony is NG Responsibility, while System Telephony is the user's responsibility. Control telephony is provided over National Grid's private network; System telephony is the standard PSTN provided by third parties.

In the UK mainland, Control Telephony is the responsibility of National Grid (England and Wales) and SP or SSE (Scotland).

If EDL is being installed, Control Telephony will also be installed by default. If no EDL, System telephony is the usual recommendation for BMUs under 50MW. For System telephony just a dedicated PSTN line is required.

For Offshore Control Points, in order to provide a consistent approach to the required standard which is fully supported it is recommended that Control Telephony is provided by National Grid and costs are re-charged to the 3rd party (both connection costs and ongoing costs).

High Level Control Telephony Connectivity – Offshore



Current technologies are 4-wire analogue or Fractional E1 private circuit. An IP service (e.g. MPLS) may also be supported, subject to technical review. Internet connectivity is not supported.

There are 2 options for delivery at the 3rd party Control Point:

Option 1: National Grid will provide a standalone Control Telephone at the Control Point with the standard Control Telephony Features.

Option 2: the 3rd party presents the Control Telephony calls via their own telephone exchange.

National Grid will arrange an **Optel Service Request** which is required in order for Vodafone to provide the private circuit, install the telephone equipment at the 3rd party

Control Point (Option 1 only), configure the Control Centre telephony system, and undertake testing with the 3rd party.

References

1.

A number of documents are made available on the National Grid website relating to **EDT and EDL**. The following, all found under

www.nationalgrid.com/uk/Electricity/Codes/gridcode/ges/ewelecstandards

- Control Telephony Electrical Standard
- Electronic Dispatch Logging (EDL) Message Interface Specifications
- Interface Standards
- EDT Submitter Guidance Notes
- Electronic data transfer (EDT) Interface Specification

Interface Standards – Issue 3

Electronic Data Transfer (EDT) Interface Specification – Issue 4

Electronic Dispatch Logging (EDL) Message Interface Specifications – Issue 4

EDT Interface Specification – Guidance Note – 30 October 2001
(Relating to the establishment of Participants' DR services)

EDT Submitter Guidance Note – 21 December 2001
(Relating to the efficient use of EDT communication channels)

2.

The **Data Validation, Consistency & Defaulting Rules** is a Grid Code Associated document, which defines the rules for data validation and consistency checking which will be applied to Balancing Mechanism data received from Trading Agents and Control Points. It also covers defaulting rules to be applied in the absence of expected data. This document may be found on the National Grid website, under

<http://www.nationalgrid.com/uk/Electricity/Codes/gridcode/associateddocs>

3.

EDT Submission formats:

Please refer her to the EDT related documents under the “Specifications for Electronic Data Communications Facilities” heading on the web site page;

<http://www2.nationalgrid.com/UK/Industry-information/Electricity-codes/Grid-code/Electrical-Standards-Documents/>

Also the “Data Validation, Consistency and Defaulting Rules Issue 8” available at this page;

<http://www2.nationalgrid.com/UK/Industry-information/Electricity-codes/Grid-code/The-Grid-code/>