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# Central Switching Service (CSS) Service Definition

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## Technical Specification Document

### Central Switching Service (CSS) Service Definition

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#### *Change History*

<b>Version Number</b>	<b>Implementation Date</b>	<b>Reason for Change</b>
0.1	TBD	Initial draft included in November 2019 Technical Specification Approach Consultation
0.2	TBD	Draft included in the Spring 2021 Switching Consultation
1.0	18 July 2022	Switching SCR Modification R0041
1.1	4 November 2022	R0036
1.2	28 March 2024	R0093

## 1 Description of Service

- 1.1. This [Service Definition](#) defines the [Central Switching Service \(CSS\)](#) to be provided by the [CSS Provider](#).
- 1.2. The [CSS Provider](#) is one of a number of [Switching Data Service Providers](#), and is therefore captured within the scope of the overall [Switching Service Management arrangements](#), as defined in the [Switching Service Management Schedule](#).
- 1.3. The [CSS](#) comprises the [Registration Service](#) and the [Address Management Service](#), explained in further detail below. These operate alongside the [Electricity Retail Data Service](#) and the [Gas Retail Data Service](#).

### [Registration Service](#)

- 1.4. A core purpose of the [CSS](#) is to manage [Registrations](#) and associated data. The [CSS](#) maintains a central database for electricity and gas [Registrations](#).
- 1.5. The detail of the [Registration Service](#) to be provided by the [CSS Provider](#) is described in the [Registration Services Schedule](#), [RMP Lifecycle Schedule](#), [Switching Data Management Schedule](#), [Related Metering Points Schedule](#) and the [Data Specification](#).

### [Address Management Service](#)

- 1.6. A core feature of the [CSS](#) is its use of an address related to an [RMP](#) which has, as far as is possible, been matched by the [Address Management Service](#) to a set of “standardised” Great Britain addresses, to create a unique address, called the [Retail Energy Location Address \(REL Address\)](#). The [REL Address](#) is used for each [RMP](#) at a given [Premises](#), and is the principal address that [Consumers](#) are likely to provide (e.g. to an [Energy Supplier](#) or a [Price Comparison Websites](#)).
- 1.7. The detail of the [Address Management Service](#) to be provided by the [CSS Provider](#) is described in the [Address Management Schedule](#) and the [Data Specification](#).
- 1.8. For each [REL Address](#), the [CSS](#) shall maintain the following information:
  - (a) the source of the [REL Address](#);
  - (b) the [Unique Property Reference Number](#), if the [REL Address](#) is derived from the [GB Standardised Address List](#);
  - (c) previous [REL Addresses](#) for an [RMP](#) and the source of those previous addresses (to be maintained for at least seven years);

- (d) a Retail Energy Location (W) Address (if applicable); and
- (e) an [Address Quality Confidence Score](#).

1.9. The [Address Management Service](#) includes maintenance of:

- (a) [GB Standardised Address List](#) – a complete set of all domestic and commercial GB addresses, plus as many other locations to which energy is supplied as is practicable (such as locations with a supply point but no address), held in a widely-recognised standardised form, compliant with BS7666 and ISO 639-2:1998, in all official GB languages. The [GB Standardised Address List](#) is formed from Ordnance Survey data; and
- (b) **Address-matching software** – a set of algorithms, configuration settings and related software which, given an input address, searches the [GB Standardised Address List](#) and produces a match, together with a reference number that uniquely identifies the matched address (for example, the [Unique Property Reference Number](#)) and an [Address Quality Confidence Score](#) for the match.

1.10. The [Address Quality Confidence Score](#) returned by the [Address Management Service](#) is intended to be used by the [CSS](#) to manage the quality of its addresses. It represents the level of certainty associated with a particular address match and is likely to be based on a number of different factors, such as whether the house number and postcode are identical (high quality indicator) or house number and street name match but the postcode does not (lower quality indicator).

1.11. The [CSS Provider](#) shall apply a [Good Industry Practice](#) methodology for determining the [Address Quality Confidence Score](#) in accordance with the annual process set out in the [Address Management Schedule](#). Where the [CSS Provider](#) determines that it has improved the accuracy of a [Retail Energy Location Address](#) or that the [CSS Provider](#)'s confidence in the [Retail Energy Location Address](#) has increased, then the [CSS Provider](#) shall update the [Address Quality Confidence Score](#) accordingly.

1.12. Addresses matched to the [GB Standardised Address List](#) and returned to the [Registration Service](#) will form the [REL Address](#) mastered by the [CSS Provider](#). The [REL Address](#) may also be formed where there is no match to the [GB Standardised Address List](#), by using the [Meter Point Location Address \(MPL Address\)](#). [REL Addresses](#) will be synchronised to the [Electricity Enquiry Service](#) and [Gas Enquiry Service](#) so that [Switching Parties](#) (including [Price Comparison Websites](#))<sup>1</sup> can raise enquiries against them for the purpose of enabling switching (including without limitation) for the purpose of design, development, testing, integration and live operational use. No [REL Address](#) information may be displayed on public facing websites unless it is the website of a [Switching Party](#) that is a [Price Comparison Website](#), and with prior permission from Ordnance Survey.

<sup>1</sup> The [Switching Parties](#) that can access the [REL Address](#) are stipulated in an agreement between the [CSS Provider](#) and Ordnance Survey. These include any party to the [REC](#), any entity providing services to the [Switching Programme](#) for time to time, and [CSS Users](#) (as defined in the [REC](#)) and in each case their respective employees, agents and contractors from time to time.

## 2 Definition of [CSS Users](#)

- 2.1. The [CSS](#) provides an application interface to enable the exchange of [Registration](#) and address information between the [CSS](#) and [CSS Users](#). A full list of [CSS User](#) categories is included in the [CSS Schedule](#).
- 2.2. [Market Participants](#) and [CSS Interface Providers](#) are required to become [CSS Users](#) before they can exchange messages with the [CSS](#). The [CSS Schedule](#) defines the process [Market Participants](#) must follow in order to become [CSS Users](#) and defines the associated [CSS User](#) obligations.

## 3 System Access and User Management

### Communication Channels

- 3.1. The communication channel options available to interact with the [CSS](#) are:
  - (a) Internet Access; or
  - (b) Private Network Access, connecting via a Microsoft ExpressRoute.
- 3.2. Internet Access – The [CSS](#) applications run in the Microsoft Azure Cloud which includes a series of internet gateway servers and firewalls providing protection to the [CSS](#) application and supporting infrastructure.
- 3.3. At the other end of the internet connection will be the [CSS User](#) application domain where the user application resides. This could be part of the [Market Participant](#)'s data service or that of an agent, for example a [CSS Interface Provider](#). If the [CSS User](#) wishes to use the internet for connecting to the [CSS](#), then its chosen environment will need to include both a policy enforcement point i.e. firewall and one or more internet gateways, depending on its capacity and resilience requirements.
- 3.4. **Private Network Access** – [CSS Users](#) may choose to use a private network, connecting via a Microsoft ExpressRoute to send and receive [CSS Market Messages](#), rather than relying on the public internet. [CSS Users](#) wishing to use a private network will need to purchase and configure the Microsoft Azure ExpressRoute and work with their chosen private network provider to establish the required network connections / cross connects, to enable communication with the [CSS](#). Traffic via the private network / ExpressRoute will then be processed in the Azure cloud in a similar way to traffic

over the internet, all of which will be transparent to the [CSS](#) application.

- 3.5. [CSS Users](#) are responsible for deciding which communication channel they will use to interface with the [CSS](#).

### **Certificate Requirements**

- 3.6. Subject to Paragraph 3.7, each [CSS User](#) is required to obtain digital certificates from the [CSS Certificate Authority](#) in accordance with the process set out in the [CSS Schedule](#). These certificates are digitally signed by the [CSS Certificate Authority](#) and bind certificate owners with their public keys.

### **Additional Certificate Requirements**

- 3.7. The interface between the [CSS](#) and the [Smart Meter Data Service Provider](#) and [Enduring Change of Supplier Service Provider](#) will use two certificate authorities:
- (a) to secure TLS connections, certificates must be issued and signed by the DCC Key Infrastructure (DCCKI) Certificate Authority (as defined in the [Smart Energy Code](#)); and
  - (b) certificates for message signing must be issued and signed by the Smart Metering Key Infrastructure (SMKI) Certificate Authority (as defined in the [Smart Energy Code](#)).

### **TLS Requirements and Configuration**

- 3.8. To secure the exchange of data between the [CSS](#) and [CSS Users](#), TLS v1.3 protocol standard is applied where possible (TLS v1.2 is the minimum standard) and will make use of authentication using PKCS #3 Ephemeral Diffie Hellman key exchange to generate a shared secret (TLS-RSA) with AES-256-GCM-SHA256 for communications encryption.
- 3.9. If this authentication step fails, an “HTTP 401 Unauthorised” error will be returned to the [CSS User](#). The error codes are referenced in the [Data Specification](#).

## **4 Service Availability**

- 4.1. The [CSS](#) shall be provided 24 hours a day, seven days a week, except during [Scheduled Maintenance](#) periods and unplanned outages.
- 4.2. The [CSS](#) shall have 99.75% overall availability and 99.99% connection availability over each calendar month, excluding [Scheduled Maintenance](#) periods.

- 4.3. [Scheduled Maintenance](#) shall not occur between 16:00 and 01:00 hours. In the event of [Scheduled Maintenance](#), the [CSS Provider](#) shall provide notice to the [Switching Operator](#) for inclusion in the forward schedule of change, in accordance with the [Switching Service Management Schedule](#) .
- 4.4. In the event of an unplanned outage:
- (a) the [CSS Provider](#) shall notify the [Switching Operator](#) in accordance with the [Switching Service Management Schedule](#); and
  - (b) the [CSS](#) shall resume normal operations within one hour.
- 4.5. The [CSS Provider](#) shall maintain a business continuity process which allows the continued operation of the service in case of overall failure. This may be partially manual but must operate at the anticipated volumes.

## 5 [CSS User Support](#)

- 5.1. The [CSS](#) does not have an externally facing service desk. Any [Switching Incidents](#) and [Switching Service Requests](#) will be raised via the [Switching Portal](#). The [CSS Provider](#) shall provide second line support in accordance with this Paragraph 5 and the [Switching Service Management Schedule](#).
- 5.2. The [CSS Provider](#) shall support the response and resolution times for the following [Switching Incident](#) categories.
- (a) Priority 1 – for [Switching Incidents](#) causing critical impact and significant financial loss / disruption - 30 minute response with a four hour resolution time;
  - (b) Priority 2 – for [Switching Incidents](#) causing non-critical impact with non-significant financial loss / disruption - one hour response with a 24 hour resolution time;
  - (c) Priority 3 – for [Switching Incidents](#) causing adverse impact but can be reduced to moderate adverse impact - three [Working Hour](#) response with a three [Working Day](#) resolution time;
  - (d) Priority 4 – for [Switching Incidents](#) causing minimal impact - one [Working Day](#) response with a 10 [Working Day](#) resolution time.

## 6 [Service Levels](#)

- 6.1. Following receipt of [Market Message](#) from [CSS Users](#), the [CSS Provider](#) shall carry out synchronous validation and provide a response within the following times:



<b>Performance Parameter</b>	<b><u>Performance Level</u></b>
Average daily volume	mean time of two seconds or less
Average daily volume	90th percentile time of four seconds or less
Peak daily volume	mean time of three seconds or less
Peak daily volume	90th percentile time of six seconds or less

6.2. The [CSS Provider](#) shall process a [Registration Service Request](#) (from the point of receipt by [CSS](#) to the point where [CSS](#) sends out the response of either "[Validated](#)" or "[Rejected](#)") as follows:

<b>Performance Parameter</b>	<b><u>Performance Level</u></b>
Average hourly volume	mean time of three seconds or less
Average hourly volume	90th percentile time of six seconds or less
Peak hourly volume	mean time of five seconds or less
Peak hourly volume	90th percentile time of eight seconds or less

6.3. The [CSS Provider](#) shall process the securing of [Switches](#) and send synchronisation messages of secured [Switches](#) at [Gate Closure](#) to each relevant [Switching Data Service Provider](#) (from the time of [Gate Closure](#) to the point at which [CSS](#) sends the last message) as follows:

<b>Performance Parameter</b>	<b><u>Performance Level</u></b>
Average daily volume	mean response time of 20 minutes or less
Average daily volume	90th percentile response time of 25 minutes or less
Peak daily volume	mean response time of 35 minutes or less
Peak daily volume	90th percentile response time of 40 minutes or less

6.4. The [Address Management Service](#) shall apply updates to its [GB Standardised Address List](#) within three [Working Days](#) of receipt.

6.5. The relevant data for reporting in the software solution shall be available to generate adhoc reports within two [Working Hours](#) of a request for that data.

### **Management of BCDR events**

6.6. Where a BCDR event is invoked, the [Recovery Time Objective](#) for the [Registration Service](#) and [Address Management Service](#) will be:

- (a) four hours target time; and
- (b) eight hours maximum time.

6.7. The [Recovery Point Objective](#) for the [Registration Service](#) shall be:

(a) target - 15 minutes

(b) maximum - 30 minutes

6.8. The [Recovery Point Objective](#) for the [Address Management Service](#) shall be:

(a) target - 60 minutes

(b) maximum - 120 minutes

## 7 Maximum Demand Volumes

### Expected Volumes

7.1. The [CSS](#) shall meet the requirements set out below. Where the values are breached, the service provided may not be subject to the expected [Service Levels](#). Any such failure to meet the expected [Service Levels](#) will not constitute a breach by the [CSS Provider](#).

7.2. Where maximum demand volumes are breached within a given month the [CSS Provider](#) shall report the breach incident to the [Code Manager](#), and any impacts reported against the service. The [Code Manager](#) may initiate a [Change Proposal](#) to increase the maximum demand volumes or take remedial steps to prevent recurrence of the breach.

7.3. The [CSS](#) shall, subject to Paragraph 7.11, be capable of processing, as a minimum, the following volume of [Switch Requests](#) and changes to [Supplier Agents](#) and [Smart Meter Data Retrievers](#):

(a) average daily volume of 42,300;

(b) peak daily volume of 281,600;

(c) average hourly volume of 3,500;

(d) peak hourly volume of 25,300; and

(e) annual volume of 15,450,000.

7.4. In addition, the [CSS](#) shall be capable of processing an annual volume of 375,800 [Initial Registration Requests](#) and changes to [Meter Asset Provider](#).

7.5. The [CSS](#) shall be capable of processing, as a minimum, the following volume of [Switch Requests](#) which fail to complete successfully:

- (a) average daily volume of 7,831;
  - (b) peak daily volume of 52,100;
  - (c) average hourly volume of 653;
  - (d) peak hourly volume of 4,689; and
  - (e) annual volume of 2,858,250.
- 7.6. In addition, the [CSS](#) shall be capable of processing an annual volume of 25,900 failed [Initial Registration Requests](#).
- 7.7. In exceptional circumstances the [CSS](#) shall be capable of processing 250,000 [Switches](#) a day, in addition to the average daily volume.
- 7.8. The [Address Management Service](#) shall be capable of processing an address update of between 1.5 and 2 million address records in a periodic release from the address source and a peak address update of up to 10 million address records in a periodic release.

### **Capacity Management**

- 7.9. The [CSS](#) shall be capable of the following:
- (a) storing information related to a combined total of 55.3 million [RMPs](#) at the [CSS Go-Live Date](#);
  - (b) supporting a 375,800 increase in the number of [RMPs](#) in each year of operation; and
  - (c) adding and removing [System](#) resources dynamically, as resource requirements vary.
- 7.10. Overall, capacity shall be such that all the other non-functional requirements placed on the [CSS](#) are efficiently met.

### **MHHS Migration Period**

- 7.11. During the [MHHS Migration Period](#), in addition to the requirements of Paragraph 7.3, the [CSS Provider](#) shall be capable of processing the volume of changes to electricity [Supplier Agent](#) and [Smart Meter Data Retriever](#) in accordance with the maximum daily migration volumes published in the [MHHS Migration Plan](#), within existing [Service Levels](#). Any failure to achieve these [Service Levels](#) shall be considered a failed

[Performance Level](#) in accordance with Annex A of the [Performance Assurance Schedule](#), where the volume of changes to electricity [Supplier Agent](#) and [Smart Meter Data Retriever](#) do not exceed the sum of the volumes set out in Paragraph 7.3 and the maximum daily migration volumes published in the [MHHS Migration Plan](#). It shall be the sole responsibility of the [CSS Provider](#) to ensure they are engaged with any changes to the maximum daily migration volumes published in the [MHHS Migration Plan](#), and that they are able to support these volumes appropriately.

## 8 Reporting

8.1. The following [CSS](#) reports shall be made available by the [CSS Provider](#) to recipients via the [Switching Portal](#) (or an alternative means agreed between the [Switching Operator](#) and the recipient).

<b>Market Intelligence &amp; Monitoring</b>
<b>Recipients: <a href="#">Authority</a> and <a href="#">Code Manager</a> (summary of all <a href="#">MPIDs</a>) and <a href="#">Energy Suppliers</a> (<a href="#">MPID-specific</a>)</b>
<ul style="list-style-type: none"> <li>Completed <a href="#">Switches</a></li> <li>Rejected Switches</li> <li>Objected Switches</li> <li>Change of Occupancy Objections</li> <li>Switch Withdrawal</li> <li>Switch Annulment</li> <li>Erroneous Switch</li> <li>Initial Registrations &amp; Deactivations</li> <li>Supplier Portfolio</li> </ul>
<b>Recipients: <a href="#">Authority</a> and <a href="#">Code Manager</a> only</b>
<ul style="list-style-type: none"> <li>Switches by Energy Supplier Size</li> <li>Domestic Electricity Switch Annulment</li> <li>Non-Domestic Electricity Switch Annulment</li> <li>Domestic Gas Switch Annulment</li> <li>Non-Domestic Gas Switch Annulment</li> </ul>
<b>Recipients: <a href="#">Code Manager</a> only</b>
<ul style="list-style-type: none"> <li><a href="#">RMPs</a> Associated with <a href="#">Switch</a> Rejection</li> <li><a href="#">RMPs</a> Associated with <a href="#">Switch Objection</a></li> <li><a href="#">RMPs</a> Associated with <a href="#">Switch</a> Annulment</li> <li><a href="#">RMPs</a> Associated with <a href="#">Switch</a> Withdrawal</li> <li><a href="#">RMPs</a> Associated with <a href="#">Erroneous Switches</a></li> <li><a href="#">RMPs</a> Associated with Change of Occupancy <a href="#">Objection</a></li> </ul>
<b><a href="#">Energy Supplier</a> Loss Notification and Cancellation Report</b>
<b>Recipients: <a href="#">Energy Suppliers</a> (until all <a href="#">Energy Suppliers</a> have <a href="#">Qualified</a> as <a href="#">CSS</a>)</b>

<b>Users)<sup>2</sup></b>
<ul style="list-style-type: none"> <li>• <a href="#">Registration</a> Loss Notification               <ul style="list-style-type: none"> <li>○ <a href="#">MPRN</a> or <a href="#">MPAN</a></li> <li>○ Fuel type</li> <li>○ Active <a href="#">Registration</a> Id</li> <li>○ Pending <a href="#">Registration</a> Id</li> <li>○ <a href="#">Gaining Supplier</a> <a href="#">MPID</a></li> <li>○ <a href="#">Gaining Supplier</a> Role (X for electricity or SUP for gas)</li> <li>○ Supply Start Date</li> <li>○ <a href="#">Objection Window</a> start date</li> <li>○ <a href="#">Objection Window</a> end date</li> <li>○ Annulment Window end date</li> <li>○ Change of Occupancy indicator</li> <li>○ <a href="#">Erroneous Switch</a> indicator</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>• Registration Loss Cancellation               <ul style="list-style-type: none"> <li>○ <a href="#">MPRN</a> or <a href="#">MPAN</a></li> <li>○ Fuel type</li> <li>○ <a href="#">Registration</a> Id</li> <li>○ <a href="#">Registration Status</a></li> <li>○ <a href="#">Registration Status</a> from date</li> </ul> </li> </ul>

<sup>2</sup> The Code Manager will have the ability to switch this reporting on / off depending on whether there are any unqualified Energy Suppliers.

<b>Performance Assurance Reporting</b>
<b>Recipients:</b> <a href="#">Code Manager</a>
<ul style="list-style-type: none"> <li>• A monthly performance report providing details of overall service performance against requirements set out within this service definition</li> </ul>

<b>Billing Reporting</b>
<b>Recipients:</b> <a href="#">Code Manager</a>
<ul style="list-style-type: none"> <li>• <a href="#">Registration</a> Request Activities per <a href="#">Gaining Supplier</a> <ul style="list-style-type: none"> <li>○ <a href="#">MPID</a></li> <li>○ Fuel type</li> <li>○ Number of submitted <a href="#">Registration</a> Requests</li> <li>○ Number of successful <a href="#">Registration</a> Requests</li> <li>○ Number of Withdrawn <a href="#">Registration</a> Requests</li> <li>○ Number of Annulled <a href="#">Registration</a> Requests</li> <li>○ Number of Objected <a href="#">Registration</a> Requests</li> <li>○ Number of Rejected <a href="#">Registration</a> Requests</li> <li>○ Number of <a href="#">Registration</a> updates</li> <li>○ Number of <a href="#">Registration</a> De-Activations</li> <li>○ Number of Registered <a href="#">RMPs</a></li> </ul> </li> <li>• Registration Request Activities per <a href="#">Losing Supplier</a></li> </ul>

<ul style="list-style-type: none"> <li>○ <a href="#">MPID</a></li> <li>○ Fuel type</li> <li>○ Number of Annulled <a href="#">Registration</a> Requests</li> <li>○ Number of Objected <a href="#">Registration</a> Requests</li> </ul>
<ul style="list-style-type: none"> <li>● Chargeable <a href="#">CSS</a> Reports per <a href="#">MPID</a> <ul style="list-style-type: none"> <li>○ <a href="#">MPID</a></li> <li>○ <a href="#">Market Participant Role</a> (X for electricity or SUP for gas)</li> <li>○ Number of reports</li> </ul> </li> </ul>

<b>Failed Supplier Report</b>	
<b>Recipients: Ofgem (data provided relating to the failed <a href="#">Energy Supplier</a> portfolio where a <a href="#">SoLR</a> occurs)</b>	
● <a href="#">Shipper(s)</a> (gas only)	
● Number of <a href="#">RMPs</a> for <a href="#">Domestic Premises</a>	
● Number of <a href="#">RMPs</a> for <a href="#">Non-Domestic Premises</a>	
● Number of <a href="#">RMPs</a> with in-flight <a href="#">Switches</a> , where the failed <a href="#">Energy Supplier</a> is the <a href="#">Gaining Supplier</a>	
● Number of <a href="#">RMPs</a> with in-flight <a href="#">Switches</a> , where the failed <a href="#">Energy Supplier</a> is the <a href="#">Gaining Supplier</a>	
● For each in-flight <a href="#">Switch</a> , where the failed <a href="#">Energy Supplier</a> is the <a href="#">Gaining Supplier</a> <ul style="list-style-type: none"> <li>○ Meter Point Reference Number (<a href="#">MPRN</a>) or Metering Point Administration Number (<a href="#">MPAN</a>)</li> <li>○ <a href="#">Domestic Premises Indicator</a></li> <li>○ Supply Effective From Date</li> </ul>	
● Number of <a href="#">RMPs</a> with in-flight <a href="#">Switches</a> , where the failed <a href="#">Energy Supplier</a> is the <a href="#">Losing Supplier</a>	
● For each in-flight <a href="#">Switch</a> , where the failed <a href="#">Energy Supplier</a> is the <a href="#">Losing Supplier</a> <ul style="list-style-type: none"> <li>○ <a href="#">MPRN</a> or <a href="#">MPAN</a></li> <li>○ <a href="#">Domestic Premises Indicator</a></li> <li>○ <a href="#">Supply Effective From Date</a></li> </ul>	
● For each <a href="#">RMP</a> where the failed <a href="#">Energy Supplier</a> is the <a href="#">Registered Supplier</a> : <ul style="list-style-type: none"> <li>○ <a href="#">MPRN</a> or <a href="#">MPAN</a></li> <li>○ <a href="#">MPL Address</a></li> <li>○ <a href="#">MEM</a>, identified by <a href="#">MPID</a> and <a href="#">Market Role</a></li> <li>○ <a href="#">RMP Status</a></li> </ul>	

<b>Address Management Service Reports</b>	<b>Description</b>
<b>Recipients:</b>	<a href="#">Switching Operator</a> and <a href="#">Code Manager</a> (the <a href="#">Code Manager</a> will receive reports from the <a href="#">Switching Operator</a> )
<b>Unmatched <a href="#">REL</a></b>	A monthly report detailing the <a href="#">Address Quality Confidence Score</a> for

<b>Extract</b>	<a href="#">RMPs</a> unmatched to GB Standardised Addresses.
<b>Matched REL Extract</b>	A monthly report detailing the <a href="#">Address Quality Confidence Score</a> for <a href="#">RMPs</a> matched to GB Standardised Addresses.
<b>Unmatched Null Invalid Postcode</b>	A monthly report detailing the unmatched <a href="#">REL Addresses</a> with null or invalid postcode.
<b>Unchanged Plot Addresses</b>	A monthly report detailing addresses that have not changed from a plot address (e.g. without a valid postcode assigned). The report shows the count of days since the record was created to the end of the reporting period.
<b>Address Quality</b>	A monthly report showing quantitative analysis of address quality, including numbers of <a href="#">RMPs</a> matched and unmatched, summaries of their <a href="#">Address Quality Confidence Score</a> and corresponding historical values/trends.
<b>Unmatched ME Extract</b>	A monthly report detailing the <a href="#">Address Quality Confidence Score</a> for <a href="#">RMPs</a> unmatched to GB Standardised Addresses for <a href="#">REL Addresses</a> derived from a <a href="#">Manually Entered Address (ME Address)</a> .
<b>Updated Addresses</b>	A monthly report of addresses that have been created or changed since the previous report. Each <a href="#">RMP</a> is listed together with its current <a href="#">REL Address</a> , if: <ul style="list-style-type: none"> <li>• <a href="#">REL Address</a> has been established (as a result of an <a href="#">Initial Registration</a>); or</li> <li>• <a href="#">REL Address</a> has changed for any reason (because of the introduction or removal of an <a href="#">ME Address</a>, update of <a href="#">MPL Address</a> or updated address passed to <a href="#">CSS</a> by the <a href="#">Address Management Service</a>).</li> </ul>

- 8.2. The [CSS Provider](#) shall provide reports, upon request, to a Qualified Energy Supplier setting out all the [REL Address](#) data which the [CSS Provider](#) is required to maintain under Paragraph 1.8 insofar as relating to [RMPs](#) for which the [Energy Supplier](#) is (at the time of the request) the [Registered Supplier](#) (or has a [Registration Status](#) of [Pending](#), [Confirmed](#) or [Secured Active](#) in relation to that [RMP](#)). Each [Energy Supplier](#) which receives one or more such reports undertakes to only use such reports for the purposes of enabling [Switching](#), as per Paragraph 1.12.
- 8.3. The [CSS Provider](#) shall provide reports, upon request, to a [Gas Transporter](#) or [Distribution Network Operator](#) setting out all the [REL Address](#) data which the [CSS Provider](#) is required to maintain insofar as relating to [RMPs](#) on that [Gas Transporter's](#) or [Distribution Network Operator's](#) network. Each [Gas Transporter](#) or [Distribution Network Operator](#) which receives one or more such reports undertakes to only use such reports for the purposes of enabling switching, as per Paragraph 1.12.
- 8.4. The [CSS Provider](#) shall provide the information required by the [Switching Operator](#) to allow it to meet its requirements under this [Code](#).

## 9 System Audit

- 9.1. The [CSS](#) shall maintain an audit trail of requests received and responses sent (inbound and / or outbound messages).
- 9.2. The [CSS](#) shall hold 28 months' worth of transactions online (for auditing purposes); and seven years' worth of transactions in total (online and in archive), from which information can be recovered within 1 [Working Day](#).

## 10 Data Handling

- 10.1. The [CSS](#) shall operate in [Local Time](#).
- 10.2. The [CSS](#) shall be able to detect loss and duplication of [Market Messages](#) transferred from / to it and shall have facilities for rectification.
- 10.3. The [CSS](#) shall be able to detect mis-alignment of data between itself and other [Systems](#) with which it exchanges synchronisations and shall have facilities for rectification.

## 11 Security

- 11.1. The security requirements for the [CSS](#) interface are intended to minimise the risks to the [CSS](#) infrastructure and its users. The [CSS](#) shall run on infrastructure (hardware and software) which is physically / logically separated from other applications.
- 11.2. The [CSS](#) itself shall be certified against ISO/IEC 27001 and shall be subject to certification using a UKAS-certified auditing body.
- 11.3. The [CSS](#)'s cloud base infrastructure shall be assured with 'SOC Type 2' security certification.
- 11.4. Security requirements for [CSS Users](#) are described in the [CSS Schedule](#).
- 11.5. In the event that the [CSS Provider](#) detects a potential or suspected security breach impacting switching related [Systems](#), it shall raise a [Switching Incident](#) (in accordance with the [Switching Service Management Schedule](#) ).
- 11.6. In the event of insolvency of the organisation maintaining [CSS](#), the source code shall be recoverable from escrow.