

Green Deal Central Charging Database Service Definition



Contents

1	Description of Service	3
2	Definition of Users	3
3	Service Functionality	5
4	System Access and User Management	8
5	Service Availability	8
6	User Support	9
7	Service Levels	10
8	Maximum Design Volumes	11
9	Reporting	11
10	Business Continuity/Disaster Recovery	16
11	System Audit	17
12	Data Handling	17
13	Security	18



Technical Specification Document

Green Deal Central Charging Database (GDCC) Service Definition

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Change History

Version Number	Implementation Date	Reason for Change
0.1	n/a	Initial draft for December
		2020 consultation
2.0	1 September 2021	Incorporating
		respondents' comments

1 Description of Service

- 1.1. The primary purpose of the <u>GDCC</u> is to facilitate the creation and administration of <u>Green Deal Plans</u> in Great Britain, by providing a point of reference and interaction between relevant <u>Green Deal Users</u>.
- 1.2. The GDCC consists of an application set comprising:
 - (a) the <u>GDCC</u> database, which has the capability to securely store data and support data exchange transactions between <u>Green Deal Providers</u>, <u>Green Deal Finance Parties</u> and <u>Green Deal Remittance Processors</u> to, or from, <u>Electricity Suppliers</u> and/or <u>MPAS Providers</u> in accordance with relevant provisions of the <u>Green Deal Arrangements Schedule</u>;
 - (b) the <u>GDCC</u> application layer, being the infrastructure that supports interactions to and from the database, via agreed transfer methods; and
 - (c) a user web interface, which provides secure web-based, read-only access to the GDCC database, where access permissions have been provided in accordance with the Green Deal Arrangements Schedule.

2 Definition of Users

2.1. In this <u>Service Definition</u>, the term '<u>Green Deal User</u>' refers to the organisation granted access to data in accordance with the <u>Green Deal Arrangements Schedule</u>; the term '<u>Authorised Person</u>' refers to the individual representative of a <u>Green Deal User</u> accessing the <u>GDCC</u>.

2.2. Green Deal Users include:

(a) organisations with direct access to view <u>GDCC</u> data - the <u>GDCC</u> provides <u>Green</u> <u>Deal Users</u> with access to data, in accordance with the access provisions set out in the <u>Green Deal Arrangements Schedule</u>. This includes the <u>Code Manager</u> who



has direct access to update Green Deal User Data; and

- (b) organisations wishing to send and receive data to / from the <u>GDCC</u> messages shall be sent in the format defined within the <u>Data Specification</u>, with all data being exchanged via the <u>Data Transfer Network</u>.
- 2.3. The following table shows the different categories of <u>Green Deal User</u> and the access they are provided with. A single organisation may fulfil a number of roles.

User Category	Direct Access Para 2.2(a)	Send/Receive Para 2.2(b)
Green Deal Providers	✓	✓
Green Deal Finance Parties	✓	✓
Electricity Suppliers	✓	✓
Green Deal Remittance Processors	✓	✓
<u>Distribution Network Operators</u>	✓	✓
Metering Point Administration Service (MPAS) Providers	√	✓
Code Manager	✓	

- 2.4. With the exception of the <u>Code Manager</u>, <u>Authorised Person</u>s with direct access will not be able to create new records or update existing ones.
- 2.5. The following organisations have system interfaces with the <u>GDCC</u> for data validation and data exchange purposes:
 - (a) the <u>Electricity Enquiry Service</u>, so that data inputs can be validated and data flows routed correctly; and
 - (b) the <u>EPC Registers</u> (for both England & Wales, and Scotland) providing validation to ensure that <u>Authorised Persons</u> enter only correct and valid energy performance certificate data into the <u>GDCC</u> database.



3 Service Functionality

- 3.1. The <u>GDCC</u> is designed to support a number of business processes, as documented in the <u>Green Deal Arrangements Schedule</u>.
- 3.2. The key functions of the GDCC are:
 - (a) to pass <u>Market Message</u>s between <u>Green Deal Providers</u>, <u>Electricity Suppliers</u> and <u>MPAS Providers</u>, in accordance with the <u>Green Deal Arrangements Schedule</u>. These <u>Market Message</u>s will conform to the message structure defined in the <u>Data Specification</u> and will be validated in accordance with the requirements in the <u>Green Deal Arrangements Schedule</u>;
 - (b) to exchange data between the <u>GDCC</u> and the relevant <u>EPC Register</u> at various points in the lifecycle of the <u>Green Deal Plan</u> for validation purposes. Where a request for validation is made to the relevant <u>EPC Register</u> in relation to data provided by the <u>Green Deal Provider</u>, the <u>GDCC Provider</u> shall not carry out any additional validation on responses received. These will be passed on to the <u>Green Deal Provider</u> as received by the <u>GDCC</u> where the values received are in the valid set for <u>GDCC</u> response codes;
 - (c) to provide updated data to the relevant <u>EPC Register</u> where events occur in the lifecycle of the <u>Green Deal Plan</u>, based on the information held on the <u>GDCC</u> and used in the <u>EPC Register</u> pre-installation validation;
 - (d) to store <u>Green Deal Arrangements Data</u> with associated effective dates and make it available to <u>Authorised Persons</u>. The <u>Code Manager</u> shall be responsible for the maintenance of <u>Green Deal User Data</u> in the <u>GDCC</u> and shall ensure that relevant updates are provided to <u>Green Deal Users</u> via a <u>Market Message</u> generated by the <u>GDCC</u>; and
 - (e) to create reports that provide the total number of days in a given <u>Quarter</u> that a <u>Green Deal Provider</u> or <u>Green Deal Finance Party</u> is liable to make a payment in respect of each <u>Green Deal Plan</u> that it is associated with for all or part of that <u>Quarter</u>.

General Functionality

3.3. The GDCC shall:

- (a) maintain a record of <u>Market Participant Identifiers</u> (<u>MPIDs</u>) and associated <u>Market Participant Role Code</u>s as input by the <u>Code Manager</u> to be used to route <u>Market Messages</u> and in validation checking;
- (b) apply unique identifiers to all <u>Market Message</u>s generated by the <u>GDCC</u>;
- (c) ensure that data output has date and time stamps attached to it, identifying when the relevant Market Message was created; and
- (d) record every transaction sent to, and received by it, in a form that can be traced to an individual source, subject to agreed data retention policies.



Web Interface Functionality

- 3.4. In order to meet the requirements set out in the <u>Green Deal Arrangements Schedule</u>, the <u>GDCC</u> web interface shall include:
 - (a) screens to allow <u>Authorised Persons</u> to locate and view information relating to specific <u>Green Deal Plans</u> and/or <u>Green Deal Metering Points</u> (based on the associated <u>MPAN Core</u>);
 - (b) functionality to allow for user maintenance;
 - (c) reports relating to Authorised Person activity;
 - (d) functionality to allow the <u>Code Manager</u> to maintain standing data on the <u>GDCC</u>; and
 - (e) dedicated secure access to report outputs for the Code Manager.
- 3.5. The <u>GDCC</u> web interface allows for searching by <u>Green Deal Plan ID</u>, <u>MPAN Core</u>, or a combination of both. The ability to utilise these search combinations shall be restricted depending on the role of the <u>Green Deal User</u> as illustrated in the table below.

User Category	Search criteria allowed
Green Deal Providers	GD Plan ID only
Green Deal Finance Parties	GD Plan ID only
Electricity Suppliers	GD Plan ID and MPAN Core
Green Deal Remittance Processors	GD Plan ID only
Meter Point Administration Service (MPAS) Providers	MPAN Core only
Code Manager	GD Plan ID and / or MPAN Core

3.6. <u>Electricity Suppliers</u>, <u>Green Deal Providers</u>, <u>Green Deal Finance Parties</u>, <u>Green Deal Remittance Processors</u>, <u>Distribution Network Operators</u> and <u>MPAS Providers</u> will only be able to view data for periods for which they are (or were) the party carrying out defined activities in relation to that data as set out below:



- (a) with the exception of <u>Green Deal Charges</u>, <u>Electricity Supplier</u>s shall only be permitted to view data relating to <u>Green Deal Plan</u> records for periods that they are (or were) the <u>Registered Supplier</u> for the associated <u>Metering Point</u>;
- (b) <u>Green Deal Providers</u>, <u>Green Deal Finance Parties</u>, and <u>Green Deal Remittance Processors</u> shall only be permitted to view data relating to <u>Green Deal Plan</u> records for the period that they are (or were) associated with that <u>Green Deal Plan</u> record in the <u>GDCC</u>; and
- (c) <u>Distribution Network Operators</u> and <u>MPAS Providers</u> shall only be permitted to view data relating to those <u>Metering Points</u> for which they are responsible, based on the element of the <u>MPAN Core</u> that identifies the relevant <u>Distribution Network Operator</u>.
- 3.7. Following a successful search, where the <u>Authorised Person</u> is permitted to view data relating to the <u>Green Deal Plan</u> or <u>MPAN Core</u>, they will be provided with information via a screen. Search results must return all plans that meet the search criteria entered (taking into account the <u>Authorised Person</u>'s access rights), thus allowing selection of an individual <u>Green Deal Plan</u> or <u>MPAN Core</u>.
- 3.8. Certain user types will only be permitted to see certain tabs when a search is successful; these restrictions are set out below:

Company Type				Tabs	viewable			
	Green Deal Details	GD Plan Status History	GD Licensee History	GD Provider History	GD Remittance Processor History	Default Bill Payer History	EPC Register Details	GD Charges
<u>Code</u> <u>Manager</u>	x	x	x	x	x	x	x	x
MPAS Provider	x							
Electricity Supplier	х	х	х	х	х	х	х	х
Green Deal Provider	x	x	х	х	х	х	х	х
Green Deal Finance	х	х	Х	Х	х	х	Х	Х



Company Type				Tabs	viewable			
	Green Deal Details	GD Plan Status History	GD Licensee History	GD Provider History	GD Remittance Processor History	Default Bill Payer History	EPC Register Details	GD Charges
<u>Party</u>								
Green Deal Remittance Processor	x		x	x	x	x		x

System Interface Functionality

3.9. The interface between the <u>GDCC</u> and the <u>EPC Registers</u> is via web services, with a language independent application programming interface (API).

4 System Access and User Management

Access via the Web Interface

- 4.1. Each <u>Authorised Person</u> shall have an individual user account, which shall only be accessed via entry of the correct username and password.
- 4.2. On creation of the user account, the <u>GDCC</u> shall generate a single use randomly generated password to the <u>Authorised Person</u>'s email account as stored on the <u>GDCC</u>, the <u>Authorised Person</u> shall be required to change this password when they first log on.
- 4.3. Each <u>Authorised Person</u> shall only be able to log on via one session at a time to prevent password sharing.
- 4.4. User accounts which are not used for 30 days shall be automatically disabled.
- 4.5. Each <u>Authorised Person</u> shall only be able to access data that are appropriate to the user type for their organisation once access has been granted in accordance with the <u>Green Deal Arrangements Schedule</u>.

5 Service Availability

5.1. The web interface shall be available 24 hours a day, seven days a week, except during



scheduled maintenance periods and unplanned outages.

- 5.2. The <u>GDCC</u> web-based viewer shall have 99% availability between 09:00 and 17:00 hours on Working Days over each calendar month.
- 5.3. Any planned outage shall be notified to the <u>Code Manager</u> with as much notice as possible, but in any event no later than 10 <u>Working Day</u>s before any such event. Scheduled maintenance shall be scheduled for the period after 18:00 hours on a week day.
- 5.4. Any unplanned suspension in the availability of the <u>GDCC</u> shall be notified by the <u>GDCC Provider</u> to the <u>Code Manager</u> as soon as is practicable. Such notification shall also include an estimate for the restoration of services, with further confirmation provided when services are restored.
- 5.5. Both the web and database servers and any primary back-ups must be covered under an uninterrupted power supply system, with the appropriate software installed to gracefully shut down servers in the event of uninterrupted power supply failure. The GDCC shall ensure that power is available 100% of the time.

6 User Support

- 6.1. The <u>GDCC Provider</u> shall provide a service desk to provide technical support between 09:00 to 17.00 on <u>Working Day</u>s. This service desk will manage all user service contacts such as reporting issues and queries.
- 6.2. Issues will be categorised as follows:

Severity	Description	Target Response Time	Target Resolution Time
Critical	The service is not usable. Primary functions do not work and there is no known workaround. Business is impacted severely.	30 minutes during GDCC working hours	2.5 hours during GDCC working hours
Major	The software is still functional, but at least one primary function has been impacted and a workaround, if available, is severely time consuming.	30 minutes during GDCC working hours	4.5 hours during GDCC working hours



Severity	Description	Target Response Time	Target Resolution Time
Minor	Inconvenience increased. Functionality not highly affected and workaround is an acceptable alternative.	30 minutes during GDCC working hours	3 Working Days of fix in next software release
Cosmetic	Intended functionality not impacted Including fonts, colours, labels, etc and involving workarounds / patches that can be held in abeyance pending a combined release.	30 minutes during GDCC working hours	Fix in next software release

7 Service Levels

Processing of DTN Market Messages2

2 "Processing" is defined as the time from receipt of an incoming <u>Market Message</u> from the <u>DTN</u> at the <u>GDCC</u> gateway to the production of an outbound <u>Market Message</u> back to the <u>DTN</u> to the <u>GDCC</u> gateway or, in the event that the incoming <u>Market Message</u> fails validation such that a response cannot be generated, this failure is reported to the <u>Code Manager</u> by the <u>GDCC</u>.

- 7.1. Each Market Message received by the GDCC gateway by 14:00 hours on a Working Day shall be deemed as having been received for processing on that Working Day (in this paragraph, the "GDCC Deemed Received Date") and shall be processed by the end of the Working Day.
- 7.2. Each Market Message received by the GDCC gateway after 14:00 hours on a Working Day shall be deemed as having a GDCC Deemed Received Date of the following Working Day and shall be processed by the end of the next Working Day.
- 7.3. Processing of Market Message within the agreed timescales shall be subject to the agreed volumes of data set out in section 8 not being exceeded and the DTN, EPC Register interfaces and/or the Electricity Enquiry Service interface being available.
- 7.4. Notwithstanding the above, data may be processed in shorter time periods, dependant on the volume and nature of the data received for processing.

Web Interface

7.5. The latency between the web server and the first router in the public internet or DTN



shall remain below 250ms (milliseconds).

7.6. The <u>GDCC</u> shall respond to a request for information via the web interface within three seconds.

System Interface

7.7. The interface between the <u>GDCC</u> and the <u>EPC Registers</u> must support an end-to-end processing time of less than 5 seconds.

Update of data to the EPC Register

- 7.8. Updated data shall be provided to the relevant <u>EPC Register</u> within one <u>Working Day</u> of the update in the <u>GDCC</u> in the following scenarios:
 - (a) the Green Deal Plan ID when created;
 - (b) the Market Participant Identifier of the Green Deal Provider when created;
 - (c) the Green Deal Plan record status each time it is updated;
 - (d) details for each <u>Green Deal</u> Charge period, being the effective dates and <u>Green Deal Plan</u> daily charge each time it is updated; and
 - (e) the <u>Green Deal Plan</u> end date as expressed by the proposed end date, and subsequently the <u>Green Deal Plan Actual End Date</u>, each time it is updated.

8 Maximum Design Volumes

Total Volume of **Green Deal Plans**

8.1. The GDCC shall accommodate a total of 11,795 live Green Deal Plans.

Total Volume of Green Deal Users

8.2. The GDCC shall be capable of accommodating a maximum of 60 active GDCC Users.

9 Reporting

- 9.1. Reports shall only show information relating to the user(s) or company that the <u>Authorised Person</u> is entitled to view, as appropriate. All the reports shall be viewable in two possible ways:
 - (a) viewed on the screen with the option to select different pages; or
 - (b) downloaded into a CSV file that is compatible with versions of Microsoft Excel currently supported by Microsoft.
- 9.2. In order to provide for a secure transfer of data, all ad hoc reports will be visible and transferrable via HTTPs, except where the volume of data requires a download to be



- provided by the <u>GDCC</u> (e.g. for weekly reports to the <u>Code Manager</u>, in which case data shall be extracted and provided via secure and encrypted means).
- 9.3. The following reports will be made available to the <u>Code Manager</u> (the <u>Code Manager</u> will then send to other recipients where required). The format of reports to be agreed bilaterally with the <u>Code Manager</u>.

Report Name	Description
Initial Supplier Validation Report	Shows all instances where either:
	a) A D0341 is not received by 3 Working Days after the corresponding D0319; or
	b) A D0341 with response code 101 is received, but more than 2 Working Days after the corresponding D0319; or
	c) A D0341 that does not include response code 101 is received, but more than 1 Working Day after the corresponding D0319.
	Report generated monthly, effective from date minus 3 Working Days.
Progression of Green Deal Plan Report	Shows all <u>Green Deal Plans</u> that are, or have been, at a status of 'NEW' for more than 20 <u>Working Days</u> . This report also includes the subsequent status i.e. 'PENDING' or 'CANCELLED'
	Report generated monthly, effective from date minus 21 Working Days.
Subsequent	Shows all instances where either:
Supplier Validation Report	a) A D0341 is not received by 2 Working Days after the corresponding D0336; or
	b) A D0341 is received, but more than 2 Working Days after the corresponding D0336; or
	c) A D0341 is not received, by 2 Working Days after the corresponding D0325 with a GDCC instruction type of I;
	d) A D0341 is received, but more than 2 Working Days after the corresponding D0325 with a GDCC instruction type of I.
	Report generated monthly, effective from date minus 3 Working



Report Name	Description
	<u>Day</u> s.
MPAS Response Report	Shows all instances where either:
Кероп	a) A D0340 is not received by 2 Working Days after the corresponding D0324; or
	b) A D0340 is received, but more than 2 Working Days after the corresponding D0324.
	Report generated monthly, effective from date minus 3 Working Days.
Request to End	Shows all instances where either:
Green Deal Plan for Disconnection Report	a) A D0322 is not received by 7 Working Days after the corresponding D0337; or
	b) A D0322 is received, but more than 7 Working Days after the corresponding D0337.
	c) A D0320 data flow is not received by 7 Working Days after the corresponding D0322; or
	d) A D0320 is received, but more than 7 Working Days after the corresponding D0322 data flow.
	Report generated monthly, effective from date minus 8 Working Days.
Remittance	Shows all instances where either:
Processor Responses Report	a)A D0329 is not received by 2 Working Days after the corresponding D0328; or
	b) A D0329 is received, but more than 2 Working Days after the corresponding D0328.
	Report generated monthly, effective from date minus 3 Working Days.
General Response	Shows all instances where either:
Check Report	a) A D0235, D0334 or D0338 are not received by 5 Working Days



Report Name	Description		
	after the relevant data flows was generate by the GDCC; or		
	b) A D0235, D0334 or D0338 is received more than 5 Working Days after the relevant data flows was generate by the GDCC.		
	Report generated monthly, effective from date minus 6 Working Days.		
Reason Code	Shows all instances where the following response codes are used:		
Monitoring Report	301 not all mandatory data provided;		
	321 invalid Initial proposed <u>Green Deal Plan</u> end date;		
	327 invalid reason code provided;		
	329 daily charge amount outside permitted parameters;		
	330 daily charge EFD outside permitted parameters;		
	331 daily charge ETD outside permitted parameters;		
	337 invalid effective date for Provider transfer;		
	338 Gaining <u>Green Deal Provider</u> has no valid <u>MPID</u> for transfer EFD;		
	340 Green Deal Plan ETD less than requested transfer EFD; and		
	360 invalid Green Deal Plan Actual End Date requested		
	Report generated monthly on effective from date.		
Flow Summary by Participant Report	Provides a monthly count of all events reported in each of the type "F" reports, summarised by MPID and Market Participant Role Code. It will include the number of all events for each report and a total for that participant.		
Reason Code by Participant Summary	Provides the monthly count of each reported unique reason code value summarised by MPID and role code.		



Report Name	Description
Secretary of State Monthly Status	A report including the following:
Report	a) Total and average estimated savings on a <u>Green Deal Plan</u> and number of <u>Green Deal Plan</u> s;
	b) Total and average <u>Green Deal</u> daily charge as provided to the <u>GDCC</u> by the <u>Green Deal Provider</u> ;
	c) Total and average length of <u>Green Deal Plan</u> s;
	d) Number of <u>Green Deals</u> repaid full amount early (indicated by a new GD Plan Actual End Date value being entered into the <u>GDCC</u> by the <u>Green Deal Provider</u> that is less than that present when the <u>Green Deal Plan</u> achieved a status of 'LIVE' and no future charges being present);
	e) Number of Green Deals with partial repayments as indicated by a new GD Plan Actual End Date value being entered into the GDCC by the Green Deal Provider that is less than that present when the Green Deal Plan achieved a status of 'LIVE' and/or with revised future charges being present;
	f) Number of <u>Green Deal</u> s by <u>Green Deal Licensee</u> ;
	g) Number of <u>Green Deal</u> s by <u>Green Deal Provider</u> ;
	h) Number of Green Deals by Remittance Processor;
	i) Number of <u>Green Deal</u> s at initial checking stage, installation stage and repayment stage as determined by the <u>Green Deal Plan ID</u> Status in the <u>GDCC</u> being "NEW", "PENDING" or "LIVE" respectively;
	j) Green Deal Plans that have not had any changes to GD Actual End Date as held on the GDCC;
	k) <u>Green Deal</u> s that are terminated at initial checking stage as indicated by the <u>Green Deal Plan</u> status in the <u>GDCC</u> changing from "NEW" to "CANCELLED";
	I) <u>Green Deal</u> s that are terminated at installation stage/before repayment commences as indicated by the <u>Green Deal Plan</u> status in the <u>GDCC</u> changing from "PENDING" to "COMPLETED".
Erroneous	Highlights the receipt by the GDCC of a valid notification of an



Report Name	Description
Registration Daily Report	Erroneous Registration from a <u>Green Deal Licensee</u> . The report includes GD Plan ID, <u>MPAN</u> , <u>GD Licensee</u> , Date of Erroneous Registration (EFSD Regi), Date Erroneous Registration Resolved.

9.4. The following reports will be generated by the <u>GDCC</u> and made available to the <u>Green</u> Deal Users.

User Details Report	Enables the MAU to download details of all their <u>Authorised Person</u> s (other than password).
Usage Report	To determine transaction levels for both individuals and groups of Authorised Person , including by user type and organisation.
Daily Late File Report	The late responding Market Participant will receive an email showing their own late replies.
	The email will include:
	a. Date of Flow;
	b. Number of days that the flow is now outstanding;
	c. MPAN;
	d. <u>Green Deal Plan ID</u> ;
	e. Flow type and Subtype;
	f. Instruction Number; and
	g. Market Participant (who should reply).

10 Business Continuity/Disaster Recovery

- 10.1. The <u>GDCC Provider</u> shall have the ability to remotely power all systems back up after systems have had a graceful shutdown.
- 10.2. Penetration testing of the <u>GDCC</u> infrastructure shall be undertaken at least once in each 12-month period, and a report provided to the <u>Code Manager</u> regarding the outcomes of this test, to include any observations or findings, and recommendations



for any required remedial actions.

- 10.3. A test of the business continuity plan for the <u>GDCC</u> shall be undertaken at least once in every 12-month period, and a report provided to the <u>Code Manager</u> regarding the outcomes of this test, to include any observations or findings, and recommendations for any required remedial actions.
- 10.4. The <u>GDCC</u> disaster recovery plan ensures that the <u>GDCC</u> can be reinstated within 24 hours following a catastrophic loss of service. The disaster recovery plan will be periodically re-tested at least every six months.

11 System Audit

- 11.1. The <u>GDCC</u> will maintain audit information to provide an immediate view of who last changed the current record. The following information will be recorded::
 - (a) transaction identifier (a unique and sequential identifier assigned to each transaction, whether screen or batch);
 - (b) date of the creation;
 - (c) creator of the record (Authorised Person, flow type, message identifier);
 - (d) date of last update; and
 - (e) identifier of the record (<u>Authorised Person</u>, flow type, message identifier).
- 11.2. The system is capable of accommodating the scrutiny of formal and informal audits by RECCo (or its agent), or any other person legally entitled to carry out such an audit.

12 Data Handling

- 12.1. The <u>GDCC</u> shall maintain a record of all transactions that are processed. The information captured shall include:
 - (a) the unique transaction reference for any transaction initiated from the GDCC;
 - (b) relevant identifiers for all incoming transactions from <u>Authorised Persons</u>;
 - (c) timestamps; and
 - (d) the relation between each transaction and the next in a processing event (i.e. where a transaction is generated, a response will be associated to it via the transaction references for both).
- 12.2. Where data is required to be stored, the GDCC shall maintain historical records for a period of 14 months following which they shall be maintained outside the database. Records in the database relating to the relevant Green Deal Bill Payer and that Green Deal Plan shall be maintained for a period of no less than seven years following the cancellation, early repayment, expiry or ending of a Green Deal Plan.



- 12.3. Where data is archived, it shall be available within 3 Working Days on request from Authorised Persons.
- 12.4. The <u>GDCC</u> shall prioritise data handling for time-critical data to ensure that the service levels in Paragraph 7 are met.

13 Security

- 13.1. Market Participant bank details and Default Bill Payer details shall be stored in the GDCC and shall be encrypted and maintained in a secure environment (including archived data). Encryption will be to 256-bit Advanced Encryption Standard.
- 13.2. The GDCC shall be capable of detecting unauthorised activity and shall:
 - (a) record successful and rejected system access attempts; and
 - (b) record all successful and rejected data.
- 13.3. All data transferred between the <u>GDCC</u> and <u>EPC Registers</u> shall be encrypted and transferred via a secure interface. Transport Layer Security (TLS v1.2) shall be used for web-based traffic.
- 13.4. The primary back-ups for the <u>GDCC</u> application set are located at a separate secure location to the production systems. Both the web and database servers and any primary back-ups shall be covered under an uninterrupted power supply system.