

DCC User Gateway Interface Design Specification

Annex - Service Request Definitions

9 – Customer Consent Service

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9 Customer Consent Service (9 - CCS)

This section sets out the full content of the DCC Customer Consent Service by providing the overarching service content that includes: service request and response message types, data content items and User access roles.

Service Name	CustomerConsent	Service Id	9
Service Objective	To enable a DCC Service User to generate and send a Customer Identification Number (CIN), as defined by SMETS, to a specified Smart Meter and return the generated CIN to the sender of the Service Request.		
Business Context Statement	The DCC Service User wishes DCC to send a CIN (Customer Identification Number) to a Device so that the customer can read it back to the DCC Service User as evidence that they are the relevant householder and can give consent for the DCC Service User to access their consumption data.		
User Roles	<ul style="list-style-type: none">Other User (OU)		

Table 1 Overview of Customer Consent Service

The mapping between the Customer Consent Services and the Devices they apply to is defined as follows:

Service Reference	Service Reference Variant	Name	Business Target ID
9.1	9.1	Request Customer Identification Number	ESME GSME

Table 2 CCS - Service Requests / Devices

For each of the CCS Service Requests supported by the DCC User Gateway, this section details:

- the reference to the appropriate section of the XML Schema (see XML Schema – document 3 of this documentation set)
- the structure of each Service Request and Response with examples (if specific to the Service Request)
- if applicable, Service Request specific Validation and Response Codes

This section should be read in conjunction with the Main Document of this documentation set section 9 (which describes the general formatting for all Service Requests and Service Responses) and with the XSD (XML Schema – document 3 of this documentation set).

9.1 Request Customer Identification Number (9.1)

Service Request Name	RequestCustomerIdentificationNumber	
Service Reference	9.1	
Service Request Variant Name	RequestCustomerIdentificationNumber	
Service Reference Variant	9.1	
Service Request Objective	To enable a DCC Service User to generate and send a Customer Identification Number (CIN), as defined by SMETS, to a specified meter and return the generated CIN to the sender of the Service Request.	
Business Context Statement	<p>The DCC Service User wishes DCC to send a CIN (Customer Identification Number) to a Device so that the customer can read it back to the DCC Service User as evidence that they are the relevant householder and can give consent for the DCC Service User to access their consumption data.</p> <p>NB – this service is not a pre-condition of the use of any other Service or service request, but merely provides a means for DCC Service Users to evidence consent from customers.</p>	
User Role Access	<ul style="list-style-type: none"> Other User (OU) 	
Security Classification	<p>Non-critical and non-sensitive:</p> <p>GBCS XREF: SME.C.NC</p>	
Service Request Narrative	<ol style="list-style-type: none"> 1. A <i>Customer Identification Number</i> (CIN) as defined in SMETS is a number issued to ESME/GSME for display on the User Interface. 2. The DCC Data Systems generate the CIN and send it to the Device. 3. If the Device Command Response is successful, the DCC Data Systems will include the CIN in the response to the DCC Service Users. Response Type: Service Response (from Device) – CINMessage 4. If the Device Command Response is not successful, the DCC Data Systems will not include the CIN in the response to the DCC Service Users. Response Type: Service Response (from Device) - GBCSPayload 	
GBCS Cross Reference	Electricity	Gas
GBCS Message Code	0x0058	0x0083
GBCS Use Case	ECS50	GCS36
GBCS Use Case Name	Send CIN to ESME	Send CIN to GSME
SMETS1 Applicability	No	No

Table 3 Request Customer Identification Number Service Request

This section should be read in conjunction with the Main Document of this documentation set section 9 (which describes the general formatting for all Service Requests and Service Responses) and with the XSD (XML Schema – document 3 of this documentation set).

9.1.1 Service Request

9.1.1.1 Format

The Request Body XML element of the XSD (see XML Schema – document 3 of this documentation set) defines the structure of all the Service Requests. Its RequestCustomerIdentificationNumber XML element defines this Service Request and doesn't contain any data items.



Figure 1 Request Customer Identification Number Service Request Structure

9.1.1.2 Applicable Modes of Operation

The Modes of Operation applicable to this Service Request are (see Main Document of this documentation set section 2.3 for Modes of Operation definitions):

Transform	On Demand	DCC Only	Future Dated	DSP Scheduled
No	Yes	No	No	No

Table 4 Request Customer Identification Number Modes of Operation

9.1.1.3 Applicable Command Variant Values

The Command Variant values applicable to this Service Request are (see Main Document of this documentation set section 3 for Command Variant definitions):

CV = 1	CV = 2	CV = 3	CV = 4	CV = 5	CV = 6	CV = 7	CV = 8
Yes	Yes	Yes	No	No	No	No	No

Table 5 Request Customer Identification Number Command Variant Values

9.1.1.4 Validation

This Service Request has no specific validation. See Main Document of this documentation set section 7 for generic access control checks.

9.1.1.5 Sample Request

Sample requests are given in Annex Introduction Appendix 2. The specific information for this Service Request (Body) is as follows:

```
<RequestCustomerIdentificationNumber/>
```

Figure 2 Sample Request Customer Identification Number Service Request (Body) Format

9.1.2 Responses

The response messages for a "Request Customer Identification Number" request follow the generic format for all "Device" response messages. The generic responses applicable to this request are;

- Acknowledgement

- Service Response (from Device) – CINMessage
- Service Response (from Device) - GBCSPayload
- Parse Output

See Main Document of this documentation set section 4 for Response IDs returned to DCC Service Users that are Unknown Remote Parties (URP) to the Device.

Sample responses are given in Annex Introduction Appendix 1, response specific information details are given below.

9.1.2.1 Service Response (from Device) – CIN Message

If the Device Response is successful, the CIN is added to it, as an XML data item, by the DCC Data Systems. If the Device response is not successful, the generic Service Response (from Device) – GBCSPayload is returned to the DCC Service User.

The CINMessage XML element of the XSD (see XML Schema – document 3 of this documentation set) defines the structure of the response that includes the Device Command Response and the Customer Identification Number.

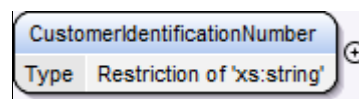


Figure 3 Request Customer Identification Number Service Response (from Device) Structure

9.1.2.1.1 Specific Data Items Definition

Data Item	Description / Valid Set	Type	Mandatory	Default	Units	Sensitivity
CustomerIdentificationNumber	A number issued to Electricity Smart Meter / Gas Smart Meter for display on the User Interface	Restriction of xs:string (length = 4 pattern = "[0-9]{4}")	Yes	None	None	Non-Sensitive

Table 6 Request Customer Identification Number Service Request Response Data Items

9.1.2.1.2 Sample Response

Sample responses are given in Annex Introduction Appendix 1. The specific information for this response is as follows:

```
<ResponseMessage>
  <ServiceReference>9.1</ServiceReference>
  <ServiceReferenceVariant>9.1</ServiceReferenceVariant>
  <CINMessage>
    <GBCSPayload>ZGVmYXVsdA==</GBCSPayload>
    <CustomerIdentificationNumber>1234</CustomerIdentificationNumber>
  </CINMessage>
</ResponseMessage>
```

Figure 4 Sample Request Customer Identification Number Service Response (from Device) Format

9.1.2.2 Parse Output Format

The response to this request returns only status without any substantial payload. The XML type is RequestCustomerIdentificationNumberRsp.

Please see Annex section 18.9 for a description of how status-only responses are represented in the MMC XML schema.

9.1.2.2.1 Specific Header Data Items

Data Item	Electricity Response	Gas Response
GBCSHexadecimalMessageCode	0058	0083
<i>GBCS Use Case Number (for information only - not in header)</i>	<i>ECS50</i>	<i>GCS36</i>
<i>GBCS Use Case Name (for information only - not in header)</i>	<i>Send CIN to ESME</i>	<i>Send CIN to GSME</i>
SupplementaryRemotePartyID	Present	Present
SupplementaryRemotePartyCounter	Present	Present
SupplementaryOriginatorCounter	Not Present	Not present
Timestamp	Not Present	Not Present

Table 7 - Request Customer Identification Number Parse Response Header Items