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Certified Products List

Submission Guidance

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Change History

Version Number	Status	Date of Issue	Reason for Change
0.1	For Review	27/04/2016	Initial draft for SECAS internal review
0.2	For Review	09/05/2016	Updated following initial feedback.
1.0	Final	12/05/2016	Version for Publication
1.1	Final	09/10/2017	<ul style="list-style-type: none"> • General updates following internal review; and • Additional section added on CPL submission forms and alignment with Assurance Certificates added for clarity.
1.2	Final	12/12/2017	Updated CPL submission forms and alignment with Assurance Certificates section to include additional mapping evidence.

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1. Purpose of the Certified Products List (CPL)

The Technical Specifications¹ set out which Physical Device Types are required to obtain which Assurance Certificates from one or more Assurance Certification Bodies. These Assurance Certificates are intended to prove a device meets a minimum standard in relation to its security and use of communication protocols such that the DCC is permitted to communicate with it. SEC Section F2.1 requires that the SEC Panel establish and maintain a listing of all Device Models which have received their required Assurance Certificates.

The CPL performs two main functions:

- acting as a listing for SEC Parties to identify which Device Models have received their required Assurance Certificates; and
- being used by the DCC to manage the Smart Metering Inventory².

2. Structure of this document

This guidance is intended for any party who would be adding information to the CPL and is seeking to understand the CPL submission process. It details:

- how to submit a product for inclusion on the CPL, and what information and documentation is required to support a new submission:
 - Section 3 describes the process for adding a product without a Manufacturer Image Hash; and
 - Section 4 describes the process for adding a Manufacturer Image Hash;
- the validation SECAS will perform upon receipt of a new submission – this is described in Section 4;
- information on what is a hash and why it is needed – Section 6 provides the detail;
- information on how to obtain and apply a digital signature to your submission – see Section 7; and
- how devices are suspended from the CPL – see Section 8.

Appendix A provides the necessary definitions and information on the required assurance processes. The relationship between the CPL and Smart Metering Inventory is also described there.

This guidance is based upon the latest version of the SEC and the SEC Subsidiary Document, Appendix Z - CPL Requirements Document.

¹ Communications Hubs Technical Specification and Smart Metering Equipment Technical Specification

² Please see Section 3 of Appendix A for more information on the SMI
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3. Submission Procedure for Products Without a Manufacturer Image Hash

The submission procedure varies slightly, dependent on whether a Manufacturer Image Hash is included as part of submission. This section describes the process for submitting products without a Manufacturer Image Hash. Please see Section 4 of this guidance for information on how to add a product including a Manufacturer Image Hash and on adding a Manufacturer Image Hash to an existing CPL listing.

Submission Procedure

- 1) Download the latest CPL workbook from the SEC Website.

The CPL page can be found [here](#).

The latest version of the CPL will be available for download on the right hand side of the page.

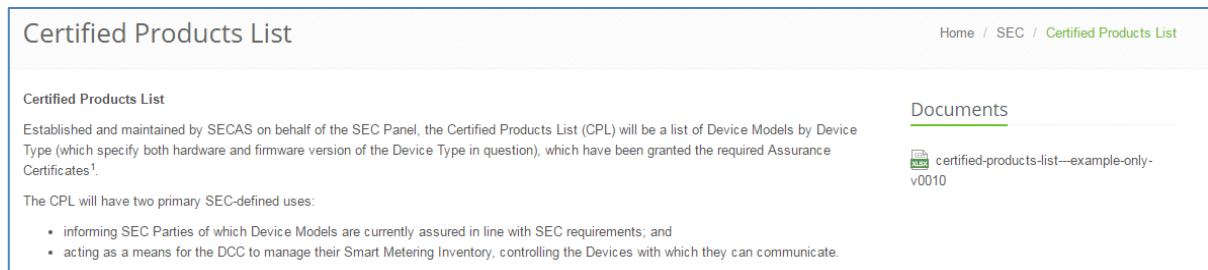


Figure 1: CPL Download Location

Click on the link and the workbook will download.

- 2) Open the workbook and navigate to the CPL – New Entry tab.

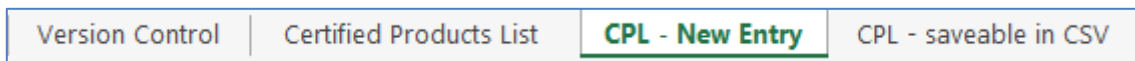


Figure 2: New Entry Tab Location

- 3) Complete all fields highlighted in light green within the CPL – New Entry Tab.

	A	B	C	D	E	F	G
1	Certified Products List - New Entry Form						
2	This form is to be used to submit a new Device Model (with its SEC meaning) for inclusion in the CPL Supporting material - specifically the required assurance certificates and the Manufacturer Releases Notes - will need to be provided along with this completed New Entry Form						
3	Please only complete the cells marked in light green. The details on each row lay out the details required in each cases, and their format.						
4							
5							
6	Data Group	Data Attribute	Notes	Conditionality rule	Format	Valid values	New Entry's Details
7	<i>Entry</i>	number	This field is to identify uniquely each CPL entry. Entries will never be deleted once created. This field is to aid configuration management.	Must be specified	6 octet utf-8 string containing a unique number serially allocated from 000001	000001 to 999999	This value is allocated by SECAS
8	<i>Entry</i>	status	This field annotate whether the entry detailed in a row can be used at this version of the CPL. Only entries marked 'Current' shall be treated as being on the Certified Products List, with the SEC meaning.	Must be specified	7 octet utf-8 string	Must be one of: - 'Current' - 'Removed'	This value is allocated by SECAS
9	<i>Device_Type</i>	name	A SEC categorisation of devices, which derives from the SMETS /CHTS categories.	Must be specified	Variable length utf-8 string	Must be one of: - 'Communications Hub' - 'Single Element Electricity Metering Equipment' - 'Twin Element Electricity Metering Equipment' - 'Polyphase Electricity Metering Equipment' - 'Gas Smart Meter' - 'Pre-Payment Interface Device' - 'HAN Connected Auxiliary Load Control Switch'	
10	<i>Device_Model</i>	manufacturer_identifier	A unique identifier for a Manufacturer. This string is a hexadecimal representation of the OTA Header 'Manufacturer code' field which is an unsigned 16 bit integer (so representable as 2 octets). In this CPL this shall be in big endian format.	Must be specified	5 octet utf-8 string whose value is a human readable form of the 'Manufacturer code' in the format XX:XX where each X is one of the characters 0 to 9 or A to F	00:00 to FF:FF (as per the OTA specification FF:FF has a special meaning and so is not in the valid range)	
11	<i>Device_Model</i>	model_identifier	A unique identifier for a Manufacturer, assigned by Zigbee. This string is a hexadecimal representation of the 'Manufacturer Code' field, which is a mandatory element of an OTA Header. It is an unsigned 16 bit integer (so representable as 2 octets). In this CPL this shall be in big	Must be specified	5 octet utf-8 string whose value is a human readable form of the 'Image Type' in the format XX:XX where each X is one of the characters 0 to 3 or A to F	00:00 to FF:FF (as per the OTA specification other values have special meaning and so are not in the valid range)	
12	<i>Device_Model</i>	hardware_version_revision	A manufacturer allocated identifier for a particular product. This string is a hexadecimal representation of the 'Image Type' field, which is a mandatory element of an OTA Header. It is an unsigned 16 bit integer (so representable as 2 octets). In this CPL this shall be in big endian format.	Must be specified	2 octet utf-8 string whose value is a human readable form of the 'Version' part of 'Hardware Version' in the format XX where each X is one of the characters 0 to 3 or A to F	00 to FF	
	<i>Device_Model</i>	hardware_version_revision	Part of the hardware version for this device. This string is	Must be specified	2 octet utf-8 string whose value is a	00 to FF	

Figure 3: New Entry - Required Fields

This tab is locked for editing aside from those fields which are required to be completed. Fields which must be completed are highlighted within the workbook in light green. The workbook itself provides guidance as to the correct completion of the form and also provides a reference source for all information.

- 4) Save the CPL – New Entry Tab as a new workbook.

Right click on the CPL – New Entry Tab and select 'Move or Copy...'

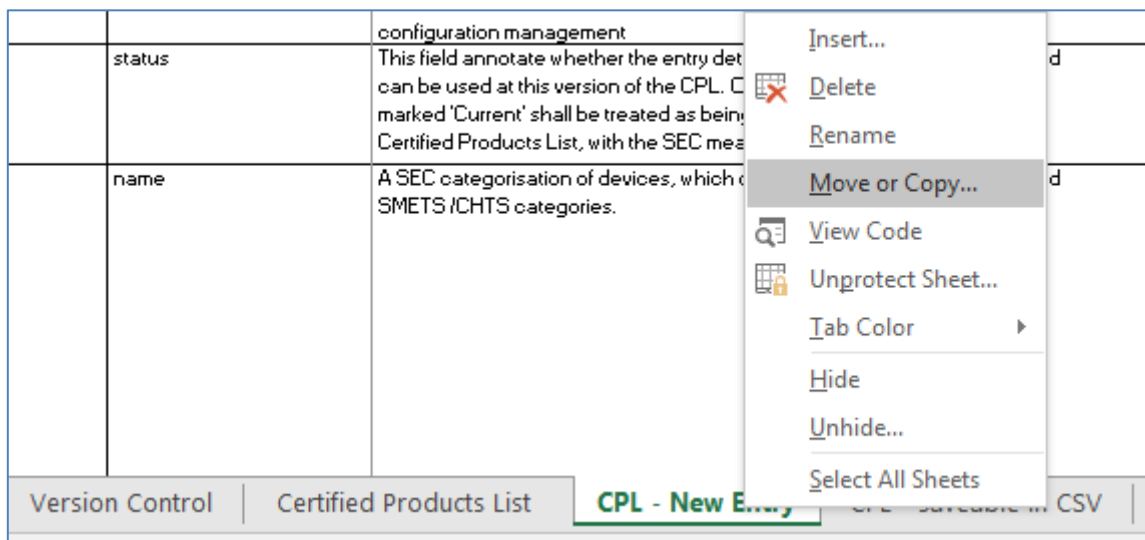


Figure 4: Saving the New Entry Form

The window below will open. Select 'To book: (new book)' and tick the 'Create a copy' checkbox.

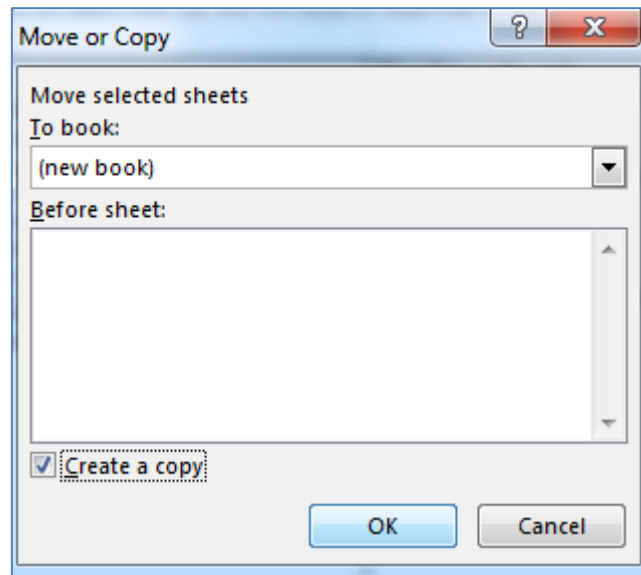


Figure 5: Saving the New Entry Tab

A new instance of Excel will open containing only the New Entry Tab. Give the workbook a descriptive filename and save it as normal.

- 5) Email this new workbook alongside any required Assurance Certificates to SECAS@gemserv.com. Please ensure your email subject field identifies the email clearly as a submission to the Certified Products List.

A member of the SECAS team will confirm receipt of your submission within one working day.

4. Submission Procedure for Products With a Manufacturer Image Hash

If you would like to include a Manufacturer Image Hash in your submission, this section describes the process for both adding a product with a Manufacturer Image Hash and adding a Manufacturer Image Hash to an existing product.

Where a Device Model is listed on the CPL but there is no hash associated, a new entry form can be submitted to associate a Hash with an entry. Simply complete the form using all of the same details used during the initial submission, however this time ensure the fields highlighted in yellow are completed. Indication should be provided in the submission email that the submission is for the purpose of updating a current entry. Submission of a Manufacturer Image Hash in this fashion also requires the associated Excel workbook to be digitally signed. Please see Section 7 of this guidance for application of Digital Signatures.

4.1 Submission Process

- 1) Complete steps 1) to 3) described in Section 3.
- 2) To include a Manufacturer Image Hash as part of the submission, the three fields highlighted in yellow must also be completed.

them that a new version of the CPL has been published. If the DCC has loaded the submission into the DCC Systems, prior to the notification being issued, this will be indicated in the notification to SEC Parties.

6. Manufacturer Images and Hashes

In accordance with Section 4.1 of the CPL Requirements Document, if a Supplier Party or the DCC wish the Panel to associate the Hash of a Manufacturer Image with a Device Model on the CPL, the submitting Party must provide the Hash and the identity of person who created the Manufacturer Image in a digitally signed communication to the SEC Panel.

6.1 What is a Manufacturer Image?

A Manufacturer Image is a firmware image a Device can apply to upgrade its firmware alongside any manufacturer specific data needed. A firmware image is the code which comprises a specific version of firmware.

6.2 What is a Hash?

A firmware Hash is the result of the application of a hash function, such function being a repeatable process to create a fixed size and condensed representation of a message using a specific algorithm.

This means that a Manufacturer Image will have a function applied and produce a string of letters and numbers of a fixed length. As the function applied is repeatable, the resultant string should always be the same, providing that the Manufacturer Image has not changed. If the Manufacturer Image has changed, then the string of letters and numbers the Hash function outputs will be different.

Devices are able to apply the specific Hash function themselves. Upon receipt of a Manufacturer Image the Device is able to calculate the Hash, if the Hash it calculates differs from that which is listed on the CPL, it is an indication that the firmware provided to the Device is not that which the Supplier intended and therefore it will reject any installation commands.

6.3 Why include a Hash?

Firmware Hashes form part of the suite of cryptographic controls used within Smart Metering to achieve heightened security. If a Manufacturer Image Hash is not listed on the CPL for a specific Device Model, upgrading to the associated Firmware version will not be possible.

7. Digital signatures

Section 4.1 of the CPL Requirements Document states that:

Where the DCC or a Supplier Party wishes the Panel to associate the Hash of a Manufacturer Image with a Device Model on the CPL, that Party shall provide the Hash and the identity of the person who created the Manufacturer Image in a communication to the Panel which has been Digitally Signed by the person who created the Manufacturer Image in a manner that reasonably enables the Panel to check that the communication originates from the person who created the Manufacturer Image.

7.1 What is a Digital Signature?

A digital signature is a mathematical technique used to validate the authenticity and integrity of a message or digital document. Application of a digital signature is required to allow the SEC Panel to verify the identity of the sender and the integrity of the message sent.

7.2 Acquiring a Digital Signature

The signing of Excel spreadsheets, and options for associated publicly available Public Key Infrastructure (PKIs), are explained on Microsoft's [website](#).

Note that the format of the 'identity of the organisation that created the image' is not specified and so can be chosen by the submitting organisation. However, whatever is chosen should be identical to that used when the submitter gets a digital certificate from their chosen public PKI provider. This is so that the Panel can discharge their responsibility to check this on receipt of a signed Excel file.

On receipt of a file notifying a request that a new Product related to a Manufacturer Image is to be added to the CPL, the Panel has to verify the digital signature as an additional check before updating the CPL.

7.3 Applying your Digital Signature

If submitting a Hash alongside your CPL entry, the CPL – New Entry tab of the Excel workbook is required to be digitally signed. Microsoft Excel has the functionality to apply Digital Signatures. Other non-proprietary pieces of software, such as Open Office, also has built in functionality for the application of Digital Signatures.

Microsoft's guidance on applying digital signatures to Excel workbooks can be found [here](#).

8. Removal of an entry from the CPL

Entries on the CPL will have one of two statuses:

- Current
- Removed

All entries will initially have a status of Current.

An entry will be altered to Removed if SECAS receive notification that one or more of the relevant Device Model's Assurance Certificates have been revoked. An entry will also be listed as Removed if the relevant Device Model's CPA certificates expire³.

SECAS are required to issue notification that CPA Certificates are due to expire twelve and six months in advance of their expiry date, using the contact details provided in the initial submission form.

³ DLMS/Companion Specification for Energy Metering (COSEM) and ZigBee Smart Energy Certificates do not expire.

Appendix A: Supporting Information

1. What needs to be on the CPL?

As per SEC Section F2.1, the SEC Panel is required to maintain a list of all Device Models for which the Panel has received all the Assurance Certificates required for the Device Type.

1.1 What is a Device Model?

The SEC definition is below:

Device Model means, in respect of a Communications Hub or a Device (other than a Communications Hub Function or a Gas Proxy Function), the Manufacturer, the model, the hardware version and the firmware version of the Communications Hub or Device.

The CPL is a listing of all Device Models. If a new version of firmware is released for a type of meter a new Device Model is formed. As the CPL is a listing of Device Models, a new submission would be required, including the relevant Assurance Certificates, for the new Device Model in this example.

1.2 What is Physical Device Type?

The SEC definition is below:

Physical Device Type means, in respect of a device, its type which may be only one of: a Communications Hub; a Single Element Electricity Metering Equipment (as defined in SMETS); a Twin Element Electricity Metering Equipment (as defined in SMETS); a Polyphase Electricity Metering Equipment (as defined in SMETS), a Gas Smart Meter; a Pre-Payment Meter Interface Device; a HAN Connected Auxiliary Load Control Switch; an IHD; or a Type 2 Device (Other).

1.3 What Device Types must be on the CPL?

Device Models of the following Physical Device Types must be listed on the CPL:⁴

- Communications Hubs
- Single Element Electricity Metering Equipment
- Twin Element Electricity Metering Equipment
- Polyphase Electricity Metering Equipment
- Gas Smart Meter
- Pre-Payment Interface Device
- HAN Connected Auxiliary Load Control Switch

⁴ As per SEC Section H5.3(b), Type 2 Devices are not required to be included on the CPL.

2. Assurance Requirements

2.1 Assurance Requirements

The table below shows what Assurance Certification is required by Physical Device Type for it to be listed on the CPL, as stated in the latest version of the SEC and the SEC Subsidiary Document, Schedule 9 - Smart Metering Equipment Technical Specifications Version 2 and Schedule 10 - Communications Hub Technical Specifications.

Device Type	ZigBee	CPA	DLMS
Pre-Payment Interface Device	x		
Communications Hub	x	x	
Gas Smart Meter	x	x	
HAN Connected Auxiliary Load Control Switch	x	x	
Single Element Electricity Metering Equipment	x	x	x
Twin Element Electricity Metering Equipment	x	x	x
Polyphase Electricity Metering Equipment	x	x	x

2.2 Commercial Product Assurance (CPA)

The CPA scheme is administered by a UK Government’s national technical authority for information assurance, NCSC. The scheme evaluates commercial security enforcing products and their manufacturers against security and development standards. CPA is open to suppliers of products within the UK and assessment is carried out by independent, approved CPA test labs.

CPA certification is granted against a specific set of CPA Security Characteristics. These characteristics describe the properties which NCSC expect a good product to exhibit.

Testing against these Security Characteristics must be performed at a NCSC approved CPA test lab. A list of approved CPA test labs can be found [here](#).

Once a test lab has finished its analysis of a product, they will send their findings to NCSC who will review the assessment and, if successful, award a Foundation Grade Certificate. It is a copy of this certificate which must be provided alongside your submission form, if applicable.

More information on NCSC’s CPA scheme can be found [here](#).

2.3 Alignment with CPA Certificate Assurance

SECAS are working with the Department of Business, Environment and Industrial Strategy (BEIS) and the NCSC on whether the “version” field of the certificate could reflect a concatenated “Device_Model” field. SEC Section F states that, *‘An Assurance Certificate will not be valid unless it expressly identifies the Device Model(s) and the relevant Physical Device Type to which it applies.’*

2.4 Adding Device Models to CPA Certificates

As per section 5 of SEC Appendix Z – CPL Requirements Document:

An existing CPA Certificate for a Device Model may allow one or more additional Device Models to be added under that existing CPA Certificate, provided that any additional Device Model differs from the Device Model for which the CPA Certificate was originally issued only by virtue of having different versions of hardware and/or firmware that do not have a significant impact on the security functions of the Device Model (as set out in the CPA Assurance Maintenance Plan). Where this is the case:

- (a) the DCC for Communications Hubs; or*
- (b) a Supplier Party for Device Models of all other Physical Device Types, may notify the Panel of one or more additional Device Models to be added to the CPA Certificate.*

When adding a Device Model under an existing CPA Certificate, SECAS require confirmation directly from the Supplier Party for Device Models and from the DCC for Communications Hubs that they are meeting their SEC Requirements, provided that it was originally issued only by virtue of having different versions of hardware and/or firmware that do not significantly impact on the security functions of the Device Model (as set out in the CPA Assurance Maintenance Plan).

2.5 ZigBee Certification

The ZigBee Certified Product program tests a device against a ZigBee Alliance developed standard. In order to achieve certification, the product must be able to execute all mandatory commands successfully.

Those wishing to achieve ZigBee certification must first become a member of the ZigBee Alliance. Further information on joining can be found [here](#).

Once you have joined the ZigBee Alliance, you must select an authorised test service provider. These are authorised, independent test laboratories who have been qualified by the ZigBee Alliance as capable of testing ZigBee technology. A list of ZigBee Alliance authorised test service providers can be found [here](#).

Once the test laboratory has completed their analysis they will provide their findings to the ZigBee Alliance. Once the ZigBee Alliance verifies the findings of the test lab they will issue a certificate against the Device Model.

The ZigBee Alliance's guide on ZigBee Certification is available for download [here](#).

2.6 Alignment with ZigBee Certificate Assurance

SEC Section F2.5 states that 'An Assurance Certificate will not be valid unless it expressly identifies the Device Model(s) and the relevant Physical Device Type to which it applies.' In addition, the CPL requires the supporting assurance certificate evidence to reflect what is included within the CPL submissions.

The requirement for CPL submissions and the supporting evidence has been present since the CPL went live; however, SECAS, on behalf of the Panel, has recently received Certified Product List (CPL) submissions with discrepancies between the content of the submissions and the content of associated assurance certificates.

The discrepancies are mainly due to the formatting of the 5 CPL Device_Model data fields:

- Device_Model - manufacturer_identifier
- Device_Model - model_identifier
- Device_Model - hardware_version.version
- Device_Model - hardware_version.revision

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- Device_Model - firmware_version

In these CPL submissions, the Device Model was in the relevant utf-8 string format (e.g. 01:02:05:06 or 00:00:10:00) but the device model specified in the Zigbee assurance certificate was in a plain english format (e.g. Version 1.2.5.6 or v1.0). SECAS have noted discrepancies in all 5 fields of “Device_Model”, However these inconsistencies related mostly to Device_Model - firmware_version.

To enable Suppliers to meet their SEC obligations on ensuring the compliance of Devices with SMETS and GBCS, the CPL needs to identify the exact make, model and version number of Devices and firmware. To be able to record this and to use it in the Inventory and Over The Air (OTA) firmware upgrades, the DCC needs to have the information in hexadecimal machine code format. The Devices themselves already have the information encoded in hexadecimal machine code so that they can respond to and interpret commands.

On the 15th September, the SEC Panel considered the requirement regarding CPL submissions and the types of discrepancies that were being received between the CPL submission and support assurance certificates.

The Panel agreed that the SEC requirements must be met, but recognised that Parties and manufacturers may be part way through assurance activities. With that in mind the Panel agreed that from the 1st December 2017 onwards, the relevant fields within the accompanying ZigBee Assurance certificates will need to be in the same hexadecimal format and match what is included in the CPL submissions. Following the 1st December 2017, SECAS will not accept new CPL submissions where there is a discrepancy.

Therefore, manufacturers and SEC Parties who provide CPL information will need to ensure they provide the relevant information to the ZigBee Test Houses in hexadecimal format.

2.7 CPL Submission

The table below reiterates the requirements for CPL Submissions.

Data Group	Data Attribute	Format	Valid values
Device_Model	manufacturer_identifier	5 octet utf-8 string whose value is a human readable form of the 'Manufacturer code' in the format XX:XX where each X is one of the characters 0 to 9 or A to F	00:00 to FF:FE (as per the OTA specification FF:FF has a special meaning and so is not in the valid range)
Device_Model	model_identifier	5 octet utf-8 string whose value is a human readable form of the 'Image Type' in the format XX:XX where each X is one of the characters 0 to 9 or A to F	00:00 to FF:BF (as per the OTA specification other values have special meaning and so are not in the valid range)
Device_Model	hardware_version.version	2 octet utf-8 string whose value is a human readable form of the 'Version' part of 'Hardware Version' in the format XX where each X is one of the characters 0 to 9 or A to F	00 to FF
Device_Model	hardware_version.revision	2 octet utf-8 string whose value is a human readable form of the 'Revision' part of 'Hardware Version' in the format XX where each X is one of the characters 0 to 9 or A to F	00 to FF
Device_Model	firmware_version	11 octet utf-8 string whose value is a human readable form of the File Version in the format XX:XX:XX:XX where each X is one of the characters 0 to 9 or A to F	00:00:00:00 to FF:FF:FF:FF (note that the use of the octets as (octet 1) Application Release, (octet 2) Application Build, (octet 3) Stack Release and (octet 4) Stack Build is recommended in OTA but not mandated and so is not mandated in the CPL)

2.8 ZigBee Certificate

The table below states the requirements for ZigBee assurance certificate fields:

Data Fields	Corresponding CPL field	Format	Valid values
Type of Device	Requirements unchanged		
Manufacturer	manufacturer_identifier	5 octet utf-8 string whose value is a human readable form of the 'Image Type' in the format XX:XX where each X is one of the characters 0 to 9 or A to F	00:00 to FF:FE (as per the OTA specification FF:FF has a special meaning and so is not in the valid range)
Model Identification	model_identifier	5 octet utf-8 string whose value is a human readable form of the 'Image Type' in the format XX:XX where each X is one of the characters 0 to 9 or A to F	00:00 to FF:BF (as per the OTA specification other values have special meaning and so are not in the valid range)
Hardware Version	Concatenation of 2 CPL items: • hardware_version.version; and • hardware_version.revision.	Concatenations of 4 CPL fields separated by ' ' and underscore. 5 octet utf-8 string whose value is a human readable form of the 'Image Type' in the format XX:XX where each X is one of the characters 0 to 9 or A to F	00_00 to FF_FF. (Should match the formatting of the hardware_version.version; and hardware_version.revision fields in the new CPL submission, separated by an underscore).
Firmware Version	firmware_version	11 octet utf-8 string whose value is a human readable form of the File Version in the format XX:XX:XX:XX where each X is one of the characters 0 to 9 or A to F	00:00:00:00 to FF:FF:FF:FF (note that the use of the octets as (octet 1) Application Release, (octet 2) Application Build, (octet 3) Stack Release and (octet 4) Stack Build is recommended in OTA but not mandated and so is not mandated in the CPL)
Certification Date	Requirements unchanged		
Certification ID Number	Requirements unchanged		

As noted above, from the 1st December 2017 SECAS will be rejecting submissions that do not meet the requirement relating to the ZigBee certificate. This will require the ZigBee certificates to display the hexadecimal reference and ensures that SECAS (on behalf of the SEC Panel) can carry out their SEC obligation to check the accuracy of the information provided before passing the new CPL submissions to the DCC. For instances where it is not possible for the information to match directly, see the subsequent sections below.

2.9 Single CPL Submission with matching ZigBee Certificate

This case describes the unique mapping between one ZigBee certificate and one Device. The combination of hexadecimal data and alphanumeric descriptions shown on the ZigBee certificate must allow the mapping to the data used in the OTA Header fields when carrying out the CPL submission.

This is particularly important for the File Version/Firmware Version field. The table below lists some examples:

CPL Item	CPL OTA Header Field Content	ZigBee Certificate Firmware Version	Comment
firmware_version	12:03:12:34	12.3 (Stack 1.2.3.4)	BCD coding
firmware_version	0C:03:0C:22	12.3 (Stack 12.34)	Hex coding
firmware_version	0D:07:00:00	Some String (14.7)	Hex coding; text omitted in CPL
firmware_version	00:00:07:8D	7.8D Other String	Hex coding; text omitted in CPL

A similar approach must be followed for the other OTA Header fields: manufacturer_identifier, model_identifier and hardware_version. It is suggested to follow the recommendations in Section 2.8 ZigBee Certificate.

The identification of a Device and the mapping to the associated ZigBee certificate is maintained.

2.10 Multiple CPL Submission without matching ZigBee Certificate

This section describes the case of mapping one ZigBee certificate to multiple firmware versions of a single Device or multiple Devices.

Device manufacturers may use a modular approach when designing the firmware and create separate software packages for ZigBee functionality and other parts of the firmware. This modular approach allows manufacturers to either combine all software packages into a single firmware update image or to create partial images to upgrade only certain functions of the Device.

The modular approach may result in updates to Device firmware, which do not affect the ZigBee certification. Subject to the manufacturer undertaken appropriate checks that re-testing is not required, along with supporting evidence to show that an existing ZigBee certificate is still valid, the same ZigBee certificate can be used for multiple CPL entries.

When reusing the ZigBee certificate, the Device related fields of the certificate no longer match with the OTA Header details of the CPL submission. To ensure that a CPL submission is valid in this situation additional information is required from the manufacturer, which allows clear identification of the mapping between the Device details in the CPL submission form and the ZigBee certificate.

The manufacturer shall provide supporting evidence, which could take the form of the full or an extract from the related release notes of the Device and/or the affected firmware version. The supporting evidence shall clearly identify the ZigBee firmware module used; the identified ZigBee module must uniquely relate to a ZigBee certificate. If the content of the supporting evidence is unclear in relation to how the certificate maps to the CPL submission SECAS will seek clarifications. In addition, a clear statement and/or supporting assertion in writing that no changes have occurred that would require updates to certificates is encouraged.

The release notes or equivalent supporting evidence shall be stored by SECAS as evidence in support of the related CPL submission. The release notes or equivalent evidence will not be made available publicly and will be retained for auditing purposes only.

2.11 Existing ZigBee Certificates

Where manufacturers are already in possession of a ZigBee Certificate, that will not match the content of your CPL submission from 1st December 2017, manufacturers may be able to request that the ZigBee Alliance re-issue a certificate, with the relevant fields updated or amended. However, this is entirely at their discretion and retesting may be required.

Administered by

2.12 Device Language Message Specification Companion Specification for Energy Metering (DLMS/COSEM) Certification

DLMS COSEM is a communication standard used by certain Devices. It sets out the rules for data exchange with energy meters.

The DLMS User Association is formed of various stakeholders from within industry, such as manufacturers, utility providers, etc. They are responsible for development and maintenance of the standard, as well as developing the conformance test and its associated tools.

The DLMS User Association provide a certification scheme. Testing can either be performed using the DLMS User Association provided Conformance Test Tool, or it can be performed by a third party.

Further information on the DLMS certification process can be found [here](#).

2.13 Alignment with DLMS Certificate Assurance

The Security Sub Committee Chair has formerly raised a question to the DLMS Chair to enquire whether the “Type” field can hold enough characters to match a concatenation of the 5 “Device_Model” fields from the CPL Submission. If so, SECAS will issue guidance on this requirement at a later date, on whether this information should be included.

2.14 Expiry of Certificates

As per SEC Section F2.6, Import Suppliers are required to ensure a replacement CPA Certificate (DLMS and ZigBee certification does not expire) is issued for all Device Types (other than Communications Hubs, which are the responsibility of the DCC to assure).

SEC Section F2.7 requires the SEC Panel to notify those mentioned above twelve and six months in advance of CPA Certificate expiry dates. When submitting a product for inclusion on the CPL, a contact email address is required as part of the submission form. Notification of CPA certificate expiry will be issued by SECAS twelve and six months in advance of expiration to these nominated points of contact.

3. What is the Smart Metering Inventory?

The Smart Metering Inventory (SMI) is established and maintained by the DCC in accordance with SEC Section H5. It is an electronic database of Devices which records information such as Device Type and MPAN/MPRN for all installed Smart Meters. Included within the SMI is a field called SMI Status which indicates the current state of the Device, such as ‘commissioned’ or ‘withdrawn.’ It is the SMI and the associated SMI Status for a Device which dictates whether or not the Device can be communicated to and from via the DCC.

In order for a Device to be listed on the SMI it must first be fully assured and listed on the CPL.

The CPL is also used to manage the SMI Status of Devices already included in the SMI. If a Device Model is no longer fully assured, it’s status shall be adjusted in the CPL to indicate this. The DCC will then use this to adjust the SMI Status for all applicable Device Models listed on the SMI.

Please see SEC Sections H5⁵, H6⁶ and SEC Subsidiary Document, [Appendix AC – Inventory, Enrolment and Withdrawal Procedures](#) for further information on the SMI and its relationship with the CPL.

⁵ Smart Metering Inventory and Enrolment Services

⁶ Decommissioning, Withdrawal and Suspension of Devices

4. How SEC Parties and the DCC are informed of changes to the CPL

As per SEC Section F2.8, the Panel is required to provide an updated version of the CPL to the DCC, publish an updated CPL on the SEC Website and notify all SEC Parties that an update has occurred. All of this must occur within one Working Day after being required to add or remove Device Models to or from the CPL.

4.1 Provision to the DCC

The CPL workbook includes a tab which has been tailored for the DCC. As per section 7.1 of the CPL Requirements Document, the Panel is required to provide a Digitally Signed copy of the CPL when providing it to the DCC. This digital signature shall be applied using the DCC's Infrastructure Key Infrastructure (IKI) tokens.

At the request of the DCC, a tab allowing the export of the CPL to CSV file format has also been included in the CPL Workbook. The tab cannot be edited and is based solely on the relevant parts of the CPL itself, however it is formatted in such a manner which allows it to be saved as a workable CSV file format. This option has been included to facilitate the DCC's import of the CPL into their systems for the purpose of managing the SMI. The DCC shall make any modifications to the SMI up to 24 hours from receipt of the updated CPL. Please note, there may be a delay between the published CPL and it being uploaded by the DCC into its Data Service Provider (DSP).

4.2 The SEC Website

The Certified Product List workbook will be uploaded to the SEC Website and will replace previous versions hosted. Full change control is included in the first tab of the workbook, so Parties are able to identify what the key changes are.

4.3 Directly Notifying SEC Parties

Once a copy has been uploaded to the SEC Website, a notification will be issued to all SEC Parties informing them that this has occurred. If the DCC process the submission, prior to notifications being issued to SEC Parties, SECAS will indicate whether it has successfully loaded. Where it is not loaded prior to the notification being issued by SECAS, this will be indicated in the email.

The SEC Panel is required to provide updated versions of the CPL to the DCC within one Working Day following a new submission.