### End to End commissioning process & Training notes

eDF

Campus network







Welcome to your SMETS2 installer guide, here you should be able to find all of the answers to any questions you may have and this should also help you to resolve any issues along the way. Good Luck.

Page	Content
3	Top tips
4	Quick TSG & Objection Handling
5	Installing a SMETS1 meter on a SMETS2 job type
6	Installation and power up
7	End to End Electricity commissioning
8	End to End Gas commissioning journey
9	End to End IHD commissioning journey
10	Customer familiarisation app
11	Common Error resolution – Transaction ID missing on Gas
12	Common Error resolution – Transaction ID missing on IHD
13	Common Error resolution – Familiarisation box does not appear
14	Adding a privacy PIN Electricity
15	Adding a privacy PIN Gas
16	Pay As you Go (PAYG)
17	Back office commissioning team
18	SMETS2 L&G Meter LED's
19	PPMID / Pre installation checks
20	In service test error
21	SMETS2 Maintenance job processes
24	Acronyms



### Top Tips

- Do <u>NOT</u> remove the legacy gas meter until the SMETS2 gas meter has commissioned successfully at the meter point
- <u>ALWAYS</u> select <u>PPMID</u> on the ToughPad in order to commission an IHD
- Ensure "CAPS LOCK" is OFF when scanning GUID's & barcodes
- Do <u>NOT</u> put the "Property of EDF energy" stickers on the new gas meters
- Always <u>shutdown</u> your toughpad at the end of your day to ensure sufficient updates are made
- Always check your <u>emails</u> to receive the most recent communications.

### **SMETS 2 BOCT**

The SMETS 2 Back office commissioning team should only be used when it is not possible to commission using the toughpad due to system or connectivity issues. The SMETS2 Back office is separate from the SMETS1 team.

### **Useful contacts**

**TSS** – 0208 298 8625 0208 298 8629

SMETS2 BOCT - 0800 096 5070

SMETS1 BOCT - 0333 009 7004

### **SMETS1 BOCT**

If exchanging from a SMETS1 to a SMETS2 meter you will still need to follow the process for De- commissioning the SMETS1 meter by contacting SMETS1 BOCT – If you install a SMETS1 as a result of trouble shooting you will also need to commission the SMETS1 again via BOCT.



### **QUICK TSG**

- Always check your device has connectivity before beginning any commissioning or attempting any joining
- Always refer to TSG before contacting TSS or Back office
- Hot swapping means you can remove the comms hub from the meter without de-energising the supply
- Ensure the customer familiarisation box is ticked before commissioning your IHD when completing SMETS – SMETS Jobs
- If using back office commissioning ensure all details are still captured (scanned) on the Toughpad

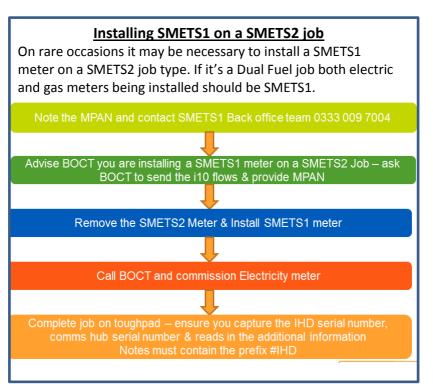
### **Objection handling**

Customer objections can be common when trying to install a smart meter. This is because of the stories they may have heard from the news or from other suppliers. It's important to try and manage the customer's objections before aborting any installs.

Your IHD will show your energy usage in pounds and pence (as well as kilowatt hours)

Customers won't need to take a manual meter reading

It's free to have a smart meter fitted

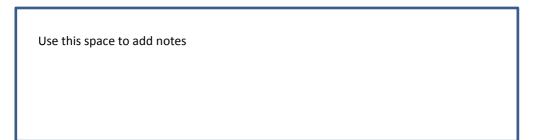


CAMPUS

network

eDF

When completing a SMETS1 install on a SMETS2 job please ensure you delete any remaining SMETS2 data such as the GUID's.

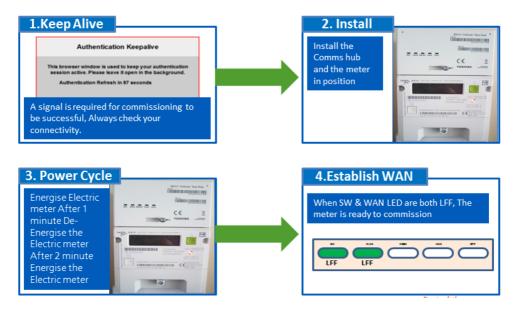


5



### Installation & power up

Before initiating the electricity commissioning, you will need to install & power up the system.



The power up sequence and power cycle process must be completed before beginning the commissioning.

Each device is installed and commissioned separately.

- Electricity & comms hub
- Gas (if DF)
- IHD

CAMPUS Sector

### Electricity commissioning journey

1. Scan Assets Scan the meter & comms hub details – Ensure CAPSLOCK is off	2.Keep Alive	3. Press Commission Press Commission on the Toughpad within 15 minutes of power up
4. Check status Press check status to confirm the successful TXID message is received	5. Establish HAN The HAN LED should be MFF. The SW & WAN LED will remain LFF	6. Elec meter joined A solid signal icon will be appear on the ELEC meter & confirm it has commissioned
7. Press Joined Press joined on the Toughpad	8. Check status After 2 minutes press check status	9. Proceed to next job Wait for messages, proceed to Gas if DF, or IHD if SF



# DO NOT REMOVE EXISTING GAS METER

CAMPUS

network

eDF

1. Scan assets Scan the meter & comms hub details – Ensure CAPSLOCK is off	2. Existing Gas Power up the new gas meter at the existing position by pressing A	3.Keep Alive
4. Press Commission Press Commission The meter MUST be commissioned at the meter point.	5. Join HAN Navigate to the HAN join menu. Long press B Short Press B	6. Join OK Gas meter will display join ok message. Press A to continue
7. Establish HAN The HAN LED will be in MFF for up to 10 minutes.	A signal is required for commissioning	9. Press join Press join on the Toughpad, The meter will wake up every 4 mins for 1 https://www.action.com/in/2
<b>10. Check Status</b> Press check status & Alexandrow wait for 1.1.1 and the message, then at the	8.7.2 message index screen to	after receiving the to access meter to complete purge,

The New GAS meter must be commissioned at the existing meter point to ensure it can and has got a sufficient HAN signal. If the HAN signal cannot be reached at the meter point we do not go ahead with the gas install.

relight & pressure test

exchange the meter



#### **IHD** Commissioning journey

A signal is required for commissioning	2. Plug in & power up Plug in & power up the IHD as close the Elec meter as possible	S. Join network
4. Scan assets Scan the GUIDS & ensure you select PPMID in the drop down.	5. Keep Alive	6. Press commission Press commission & wait for the TXID success message
7. IHD updates The IHD will show a solid WIFI symbol the time & date and will beep three times.	8. HAN join The HAN LED will be flashing a medium frequency	9. Press joined Check keep alive before pressing joined and look for txid success message
10. Check for cor Wait for 1 minute & check the IHD for consumption	Using t interact the cus	ustomer familiarisation the new tive app, guide stomer through niliarisation



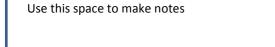
As part of OFGEM regulations, we are required to provide "tailored" Energy Efficiency advice at every install. The new app supports installers by providing tailored advice.

CAMPUS

network

eDF





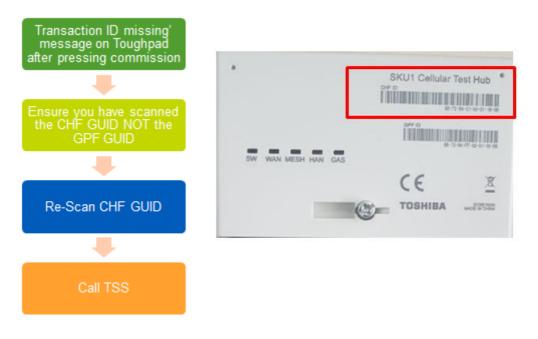


As part of the SMETS2 roll out so far there have been some small issues experienced when commissioning the Gas meter

CAMPUS

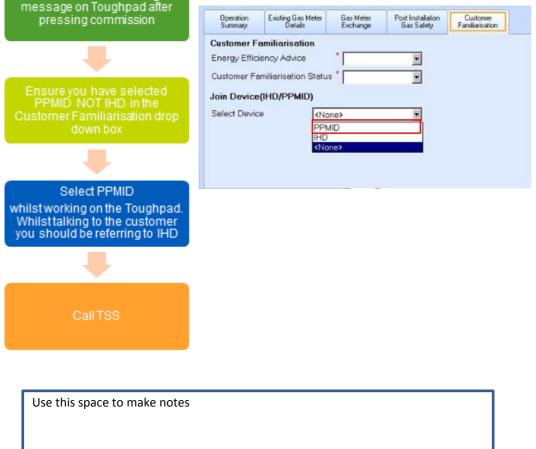
network

edf



'Transaction ID missing'







Customer Familiarisation	Operation Summary Details Familiarisation Close Job
Tab does not appear on the Gas job	Asset Information
	GT Issue Category <none> GTCode <none></none></none>
Ensure you have clicked the 'Customer Familiarisation' tick box to enable the tab on the Toughpad	GT Issue Notes Existing Gas Meter Serial Existing Comms Hub No Existing IHD Number
	Regulator Batch No Work Code Read.Inspect or Abort
Call TSS	<ul> <li>Medium Pressure</li> <li>Dest lestell Con Cofety equired</li> <li>Update Asset Data</li> <li>Customer Familiarisation required</li> </ul>
Use this space to make notes	

#### **Privacy PIN**

From 1<sup>st</sup> July there is a change to the information that gets cleared from a SMETS2 meter on a removal. This change has been made to reduce the time spent on site for meter exchanges, down from approximately six hours. To avoid this some messages have been removed, but this means some of the customers data will remain on the meter.

CAMPUS

network

edf

To ensure that the customers data cannot be accessed you will be required to add a privacy PIN number onto the meter. Once you have started the removal process on the HHU add the Privacy PIN to the meters.

If there is already privacy PIN on the meter you will not be required to add one. You need to add a 4 digit Privacy PIN number that is random and not written down anywhere. Repeat this process for both electric and gas meter if applicable. Do not use easily identified Privacy PIN numbers like 0000 or 1234.

This process needs to be followed for any SMETS2 meter removal.

#### Adding a privacy PIN to a SMETS2 GAS meter



#### Adding a privacy PIN to a SMETS2 Electricity meter



Campus

network

eDF



At the end of each job there is a need to perform a quick Suitability check – this check will determine whether the customer's property (meter set up) is suitable for a Pay as you go meter in the future. This check will be logged on the close job page of the toughpad.

The meter needs to be accessible at all times in case of scenario's where there is a loss of a WAN or HAN signal which would stop the meter working correctly.





#### SMETS2 Back office commissioning team

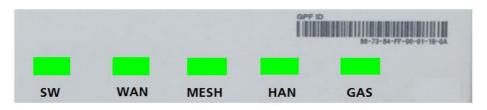
Installer should always follow SMETS2 installation process If the installer notices a fault with the toughpad that will prevent commissioning, they can call BOCT

Each device will require a separate call. e.g. for a Dual fuel install there would be 3 phone calls

Once commissioned installer will need to contact job closure team in Bexleyheath to enable the job to be closed. Installer will need to set the customers expectations, as the BOCT process can take additional time.



### SMETS2 L&G Meter LED Indications



SW - Software

WAN – Wide Area Network - Cellular

MESH - Lit instead of WAN on RF Mesh Installation

HAN – Home Area Network

GAS - Gas Meter Connected (if lit)

The LEDs on the front of the Comms Hub have five modes, each mode will indicate something different:

SOLID <i>(Initial 'Power Up' state)</i>
HIGH FREQUENCY (Fast Flash = <b>Error state</b> ) 2 flashes per second
MEDIUM FREQUENCY ( <b>Transient state</b> ) 1 flash per second
LOW FREQUENCY (Slow Flash = Normal state) 1 flash every 2 seconds
OFF



### PPMID (Prepayment meter interface device)

A PPMID is essentially the same as your IHD – The main difference of this device is that it can communicate 2 ways which means we can change tariff configurations on the meter without performing a site visit.



For all SMETS2 jobs we will be installing a PPMID type device over an IHD. The IHD will still display tariff, cost & usage information in the same way we are used to and we will still refer to it as an IHD.

### Pre installation checks

Before you begin the Smart meter installation, It is imperative that the packaging for the communications hub is inspected before use and that pre-installation checks are completed:

Ensure all packaging is in good condition and that there is no evidence of the unit being wet, dropped or crushed



### In service test error

IST Message displayed on electricity meter The terminal cover is not sufficiently tightened and will cause a tamper alert to be raised Press the A button. Tighten the cover until there is no wiggle in it (without overtightening). The same would apply to the battery cover on a gas meter

### SMETS 2 Maintenance jobs

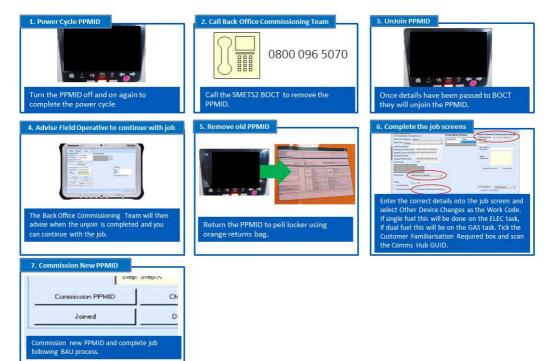
SMETS2 maintenance jobs are classed as any job that requires an exchange or replacement of existing SMETS2 Equipment, these process cover the exchange of the PPMID, Elec meter & Gas meter – There will occasionally be the need to exchange the Comms hub however these are very rare at this stage – if this happens we still refer to TSS.

CAMPUS

network

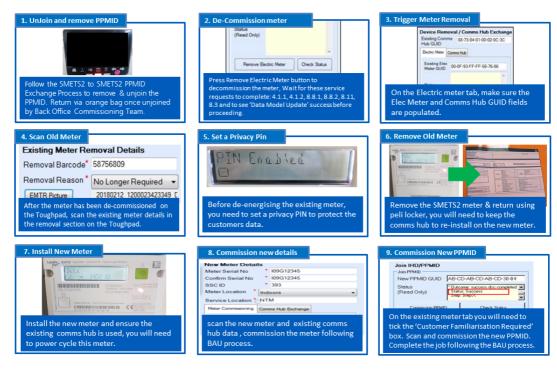
eDF

### SMETS2 PPMID EXCHANGE





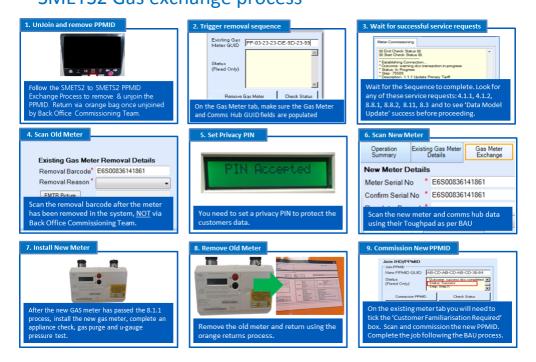
### SMETS2 Electricity meter exchange





eDF

Campus network





### Acronyms

DCC	Data communication company
DSP	Data service providers
CSP	Communication service providers
ESME	Electricity Smart metering equipment
GSME	Gas Smart metering equipment
CHF/CF	Comms hub function / comms hub
IHD	In home Display
PPMID	Prepayment meter interface device
GUID	Global unique ID
BOCT	Back office commissioning team
TSG	Trouble shooting guide