

MHHSP – Business Process – Version History MHHSP-BP017– Optional SDS/MDR Interactions (CR#23)

Version	Description	Author	Date
0.01	First draft based on CR#23	MHHS Programme	04/09/2023
0.02	Issued for Review	MHHS Programme	28/09/23
1.0	Updated with final review comments	MHHS Programme	29/01/24



Item	Description	
	Process	
Step 00 Text	Task	
×	Decision gateway	
(Initiate multiple steps	
+	Collapsed sub-process	
\bigcirc	Wait for time period or specific event	
	Start BPM	
	End BPM	
	Sequence flow – Black = Process Step / Blue = DIP Output	
0⊅	Message flow - Orange = 3 rd Party / Red = TBD	



SDS Appointment Confirmed SDS Instructs MDR (Optional) BAU MDR Data Recovery (cf. BP004) MDR Stop Data Collection (Optional) NOTE: MDR will need to have been Nominated by the Supplier (IF-031) and/or SDS (IF-034) as part of the 'standard' BP003 Data Service Appointment Process OR a Change of MDR BP003A. SDS's can choose to Step 175 Step 150 initiate this process off the back of the receipt of IF-PUB-037 036 [DSApp] or may wait until confirmation of MDR Update / IF-035 [DCC-MDROutcome] \bigcirc Confirmation o De-Appointment Step 5 Step 185 Received \bigcirc BP-005 BPM-003 PUB-036 Data Processing Data Service Confirmation of Data Se (SDS) Step 75 Step 145 Step 15 Step 55 Appointment BPM-003 Appointment \bigcirc Received Data Service Manage MDR Issue 'Start Receive Appointment Manage MDR Step 180 Acceptance & Collection' Consumption / ► X OR 'Start Collection' Wait for Meter Message to Readings BPM-003A PUB-035 Rejection Data MDR Step 155 DDCUpdate [SDS-MDROutcome] \bigcirc Step 10 Confirmation of MDR Request Change PUB-035 BPM-003B Reading / [SDS-MDROutcome] Change of MDR Consumption \bigcirc Confirmation of MDR Change Received BPM-003B <+> Change of MDR PUB-065 IF-061 PUB-064 PUB-062 PUB-062 [MDRStart] IF-065 [MDRInstantaneou Step 190 🚽 Step 20 🛓 Step 50 Step 130 Step 70 Step 160 🚽 Step 140 Process Publish 'Start Process Publish 'Start Publish 'Start Instantaneous Collection' Collection' Publish NOTE: Process described here assumes that Collection' Consumption Reading Message Response Reading(s) SDS-MDR interactions will be exchanged via Response Request ation DIP) the DIP. However, use of the DIP is optional. An SDS-MDR pairing could choose to exchange IF messages directly if they so choose. Step 195 Step 125 Step 25 🚽 Step 165 Step 135 Step 65 Step 45 Publish Publish Process Process Process Instantaneous 'Start Process 'Start 'Start Reading Consumption Collection' Reading(s) Collection' Collection' Request Message Reponse Reponse PUB-065 PUB-061 IF-062 IF-064 IF-062 [MDRConsumption] [ReadingF Step 30 🚽 Step 200 Step 170 🚽 Step 40 Manage Receipt Manage of 'Start Issue 'Start Instantaneous Collection' Collection Reading REJECTION Message Rejection Step 60 Step 85 🖕 Request Send Required Issue 'Start Service Data Re (MDR) Collection' Request(s) to Acceptance DCC Step 35 🚽 Step 100 Step 120 . An MDR should validate the MPAN/ GUID details via reference to the Manage MDR DCC Inventory, before choosing to Process Meter -→ X Service Validation acknowledge a 'Start Collection' Access Request equired from an SDS. Outcome Responses -ACCEPTANCE-Existing DCC Existing DCC Existing DCC Service Request I/F Service Request I/F Service Request I/F Step 95 Step 115 Service Provide Data Request Consumption or Responses Readings Step 80 Step 90 🔶 Receive & Reference Data B \bigcirc for MDR Validate Service ►X Eligability Requests BPM-003A Step 105 Step 110 Registration Service CSS/DCC Service Manage Data Update Requests Recovery Processes Accepted

As per CR#23 the adoption of these 'Standard Interfaces' is entirely optional.

These standardised flows are intended to offer a common mechanism for exchanging data between an SDS and an MDR - without the need for a 'custom' or 'bespoke' integration arrangement, between them. Each SDS and MDR pairing should agree bilaterally:

a. what elements of the standard flow design they wish to utilise (for example, parties may choose to implement the full solution, or to simply use IF-064/IF-065 without the 'appointment/de-appointment' elements, or other variations.

b. if messages are to be exchanged via the DIP or via a separately agreed mechanism

For the avoidance of doubt it is for an SDS to ensure it is able to fulfill it's code obligations through the appointment of an MDR – whether using a bespoke integration or the optional standardised messages described in this process.

Note

Where use of the DIP is employed to exchange messages, both the SDS and the MDR have the option of utilizing the 'Message Status' functionality in order to reject messages, for reason of invalid structure, data content e.g. MPAN Invalid or Unknown (referred to as Level 3 / 4 validation).

As with all MHHS Process maps this pathway is not shown on Business Process Maps. However, further information about this functionality is available in the 'MHHS End-to-End Solution Architecture' document, and the standard Level 3/4 message validation response codes are documented in the introduction section of the MHHS Interface Catalogue.

Where it is agreed that DIP based exchange of messages will be used, the MDR will be able to either 'opt-in' or 'opt-out' of receiving MPAN based updates (eg Metering Updates, Consent Changes, etc.)

MHHS-IF-064 MDR Consumption

MHHS-IF-065 MDR Readings

Operational Standards

Parties choosing to offer the use of these Standardised messages should also accept that message transmission and response times should mirror the timescales outlined in the MHHS Operational Choreography Document.

Where the method of exchange is to be via the DIP, the MDR will have to 'Register', undertake & complete 'assurance activity', with the DIP Manager. This will involve ensuring ongoing compliance with any DIP Connection Agreement(s), including any associated SLA's, NFR's COCO etc. etc.

Each SDS-MDR pairing will need to register their intent, to utilise the DIP for the exchange of these messages, with the DIP Manager.

The process map above is a "stylised representation" of the interactions between the MDR and the DCC [peach shaded boxes], for the purposes of collecting data to support MHHS processes and functions. It is not intended to be an exact replication of the DCC connection patterns and interfaces. A list of the principle Service Requests is shown in the box opposite.

For further information on interaction with the DCC please reference the SEC DUIS and other guidance documentation using the links below.

https://smartenergycodecompany.co.uk/the-smart-energy-code-2/ https://smartenergycodecompany.co.uk/glossary/duis-xml-schema/ https://smartenergycodecompany.co.uk/download/18822/ https://smartenergycodecompany.co.uk/download/2390/



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MHHS BP003 – Data Service Appointment MHHS-BP003B- CSS/DCC Update (Change MDR) MHHS-BP005 – Data Processing

Exit BPM





Summary of key DCC Service Request ID's required to support MHHS activity:

4.2 Read Instantaneous Export Register Values

4.6.1 Retrieve Import Daily Read Log 4.6.2 Retrieve Export Daily Read Log

4.8.1 Read Active Import Profile Data

4.8.3 Read Export Profile Data

4.17 Retrieve Daily Consumption Log 5.1 Create Schedule Wrapper

5.2 Confirm Schedule

5.3 Delete Schedule