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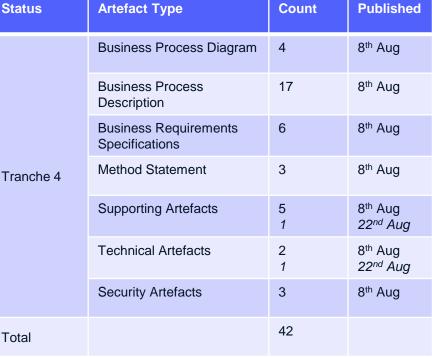
MHHS Design:
DAG Summary Report- Tranche 4

8th August 2022

Development of Tranche 4 Design Artefacts:

- **42** Tranche 4 Design Artefacts have been developed through a number of iterative review cycles with the Sub-Working Groups throughout June and July

- In addition **37** Conditionally Approved artefacts from Tranches 1 to 3 have been updated to reflect resolution of open design issues and dependencies- all documents have been issued for review as part of Tranche 4 and can be found here

- Revised versions of Conditionally Approved Artefacts with tracked changes, along with a Change Control Log detailing changes to Business Process Diagrams can be found under Change Control

- Further detail can be found in the Design Artefact Tracker here

Status	Artefact Type	Count	Published	Change Control
Conditionally Approved	Business Process Diagram	18	8th Aug	BPM Change Control Log to be published 10th Aug
	Business Process Description	5	8th Aug	1 x Tracked Change Version Published 4 x Tracked Change Versions to be published 10th Aug
	Business Requirements Specifications	7	8th Aug	4 x Tracked Change Version Published 3 x Tracked Change Version to be published 10th Aug
	Entity Map	1	8th Aug	1 x Tracked Change Version to be published 10th Aug
	Method Statement	6	8th Aug	5 x Tracked Change Version published 1 x Tracked Change Version to be published 10th Aug
Total		37		

Status	Artefact Type	Count	Published
Tranche 4	Business Process Diagram	4	8th Aug
	Business Process Description	17	8th Aug
	Business Requirements Specifications	6	8th Aug
	Method Statement	3	8th Aug
	Supporting Artefacts	5 1	8th Aug 22nd Aug
	Technical Artefacts	2 1	8th Aug 22nd Aug
	Security Artefacts	3	8th Aug
Total		42	

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MHHS Design- DAG Report- Tranche 4 Caveats

The following caveats should be taken into consideration when reviewing the Design Artefacts:

Design Caveat	Description
Enquiry	Discussions are ongoing with regard to the enquiry service. The programme position is now that this is best resolved to EES with uplifted requirements in terms of freshness of data within EES. This leverages an existing enquiry service and mitigates duplication of industry systems that would arise from other options considered. Next steps are: • Agree requirement resolution and freshness definitions with industry • Continue analysis of data item coverage within existing DiP flows. This is being undertaken to confirm a solution option for EES would be to provision data from existing MHHS subscriptions as opposed to uplifting existing interface between MPRS and EES
Onboarding	High Level onboarding requirements have been specified with regard to the DiP. As the qualification process definition for MHHS continues, there will be further detailed requirements for onboarding (particularly once the DIP service provider has been appointed)
DIP Detailed Design/DIP Reporting/User Portal / Service Management	High Level DiP Service Management / Reporting & Portal requirements have been specified with regard to the DiP. As part of DiP detailed design we expect further detailed requirements to be necessary We would also expect some movement in error levels and codes as DiP Detailed Design is undertaken
Physical Interface Specifications	Physical Json definitions are expected to be issued on 22/08/2022
Logical Data Model	Logical Data Model expected to be issued on 22/08/2022
TNUoS Reporting Requirements	Further clarity and discussion is required on TNUoS reporting requirements. Design Team expects clarity on this following further sessions with National Grid ESO over the next few weeks
Certificates- Message Signing	The mechanism for message signing has been agreed. However, there is technical optionality in terms of the physical message structure. This will not affect message payloads
Governance	The design articulates the required Data attributes within the design. Further discussions will be required to determine the overall ownership of new entities
Load Managed Area requirements	There is ongoing industry discussion with regard to the treatment of Load Managed Sites. Design Team has prepared options for dealing with this but CCAG involvement required to finalise position
Elexon Central Services terminology. ECS refers to the superset of LSS, VAS, MDS and ISD	The aggregation of Central Settlement Services within documentation is referred to as ECS (Elexon Central Services). Where differentiation is required the component service is references i.e. LSS, ISD, MDS & VAS
Elexon Reporting Catalogue	Elexon Reporting Data Catalogue is expected to be issued on 22/08/2022

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- **44** Baseline Design Issues were identified as part of the Conditional Approval of Design Artefacts in Tranche 1, 2 and 3

- **1** Design Issue is ongoing and **3** have been placed on hold

- **30** Design Issues have been resolved and the relevant Conditionally Approved Design Artefacts updated to reflect the agreed position

- **10** Design Issues have been resolved with no changes required to Conditionally Approved Design Artefacts

- The following slides provide detail of the issue resolution and Design Artefacts that have been amended. Further detail can be found in the Design Issues Log here

ID	Issue	Update	Status	Artefact(s) Updated
SNG_015	Clarification of MAP Interaction	Feedback sought from MAP- awaiting response	In Progress	TBC
SNG_001	IF005 MEX Approach	Examples required to demonstrate a series of transactions - to be further considered following feedback from review process and comment owner who is currently unavailable	On Hold	TBC
SNG_012	Potential additional UMSO process steps	Contextual updates - activity low priority- Work off plan to be agreed	On Hold	TBC
SNG_038	Requirement for Privacy Policy statement	Current view is that additional Privacy Statement is not required given the tight bounding of the issue in question, however, further analysis to be conducted on wider retention requirements	On Hold	TBC

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ID	Issue	Update	Status	Artefact(s) Updated
SNG_002	D0142	Dissensus resolved- agreed D0142 flow to remain Updates to be made to BP008 and BP009 to reflect dissensus decision	Updated- Change Control	**BP008- Change of Energisation Status updated to remove all reference to potential replacement of D0142.** **BP009- Change of Meter updated to remove all reference to potential replacement of D0142**
SNG_004	Import/Export MPAN processing	Requirements incorporated into BP010	Updated- Change Control	**BP010- Change of Registration Data- updated to include notification of linking and de-linking of associated MPAN and interfaces updated to support**
SNG_005	Domestic Indicator Process	Updated BP010 to remove supplier maintenance of domestic indicator and reflect this is now updated directly into the registration service from CSS	Updated- Change Control	**BP010- Change of Registration Data- updated reference to supplier maintenance of domestic indicator removed and updated to show updated directly into the registration service from CSS**
SNG_006	RMP Status	Incorporated into Registration Validation Rules	Updated- Change Control	DES138- Interface Catalogue updated to reflect requirements in Registration Validation Rules No change to Conditionally Approved Artefacts
SNG_007	CSS Disconnection	BP007 updated to reflect the CSS process for disconnection	Updated- Change Control	**BP007- Disconnection- Updated- notification of LDSO disconnection to Service Providers removed**
SNG_008	Cumulative Reads for Smart Meters - clarification on number of Digits and requirement for internal register digits	Data item descriptions have been updated in the interface specifications based on industry feedback, we do note however that this is subject to ongoing industry discussions outside of MHHS	Updated- Change Control	DES138- Interface Catalogue- IF005 and IF041 data item descriptions have been updated No change to Conditionally Approved Artefacts
SNG_009	IHD	Dissensus resolved- field not required as detail is exchanged by other means. IF005 to be updated to reflect dissensus decision	Updated- Change Control	DES138- Interface Catalogue- IF005 updated to remove data items and guidance note added No change to Conditionally Approved Artefacts
SNG_010	Logical Meter Process	BP006 and BP009 updated to reflect note on Logical Meter Install Process- No further action required	Updated- Change Control	**BP006- New Connection & BP009- Change of Metering updated- note added to reflect Logical Meter Install Process**
SNG_014	Energisation Status from LDSO	BP008 amended to reflect the LDSO notifying Metering Services of meter changes- No further action required	Updated- Change Control	**BP008- Change of Energisation Status- updated to reflect LDSO notifying Metering Services of meter changes**
SNG_016	PPMIP Interaction	Feedback from Suppliers determined that the D0180 (supply>MS) to req energise/de-en and the D0179 (LDSO/MS) to advise of change of energisation need to be retained	Updated- Change Control	**BP008- Change of Energisation Status- updated to include D0180 and D0179 flows**
SNG_018	LSS Recreation Trigger	Requirement clarified in the LSS Requirements set and the Data Service requirements set. Noting that the requirement would only ever be triggered by direction of the BSC Panel.	Updated- Change Control	**BRS001- Data Service Business Requirements updated to clarify requirement** **BRS007- LSS Business Requirements updated to clarify requirement**

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ID	Issue	Update	Status	Artefact(s) Updated
SNG_019	SDS Expiry Reset	Mechanism provided to terminate notifications via use of notification end date - no further action required	Updated- Change Control	**BP004- Data Collection- updated to advise supplier should resend notification with expiry date = processing date in order to effect removal of notification**
SNG_020	Minor Process Updates	Business Process Diagrams updated	Updated- Change Control	**BP007- Disconnection updates completed** **BP009- Change of Metering-updates completed** **BP010- Change of Registration Data updates completed**
SNG_021	Registration Date Time	Requirement captured in ECS requirements	Updated- Change Control	**BRS007- LSS Requirements** **BRS008- MDS Requirements** **BRS009- VAS Requirements** **updated to include requirement**
SNG_024	PAF Reporting	Requirements confirmed with Reporting Sub-Group- Flexible reporting functionality included in requirements for MDS and VAS.	Updated- Change Control	**BRS008- Market-wide Data Service Requirements** **BRS009- Volume Allocation Service Requirements** **Updated to include requirement for flexible reporting**
SNG_025	Expected Advance Definition	Requirement removed - no further action required- update required	Updated- Change Control	**METH001- SDS Validation & Estimation- updated- requirement removed**
SNG_026	Domestic Volume Tolerance	Requirement removed - no further action required	Updated- Change Control	**METH001- SDS Validation & Estimation- updated- requirement removed**
SNG_027	COS Reads	BP003C updated as COS reads process now re-incorporated into documents - changes validated by Registration Sub-Group	Updated- Change Control	**BP003C- Transfer of Reads- Change of Data Service- updated to reflect requirements**
SNG_028	LDSO MS Notification	This requirement has been provided for in the LDSO Requirements – this will be done via PUB-037 and is captured on BP002 'Change of Metering Service'.	Updated- Change Control	**BP002- Change of Service-Metering Service updated to reflect this requirement** New requirement also included in BRS005- LDSO Requirements
SNG_030	DCC timing	Now incorporated in Registration requirements	Updated- Change Control	**BP003A- CSS & DCC Update- updated to include notification to the Data Service that MDR had been confirmed by DCC** BRS003- Registration Requirements also updated to include requirement
SNG_032	Change of Service - Linked Change of Metering and Data Service	Process has been updated and wait step no longer required	Updated- Change Control	**BP003- Change of Service- Data Service- updated to remove wait step**

ID	Issue	Update	Status	Artefact(s) Updated
SNG_033	Consumption validation within MDS	Suggested validation steps for IF021 included in MDS and LSS Method Statements	Updated- Change Control	**METH007- Market-wide Data Service & METH001- SDS Validation & Estimation - updated to include validation steps** **BPD018- Load Shaping Service (ECS) &** **BPD019- Market-wide Data Service (ECS) updated to reflect change**
SNG_034	Validation of ISD combinations in Registration Systems	Included in ISD Entity Map- Table M7	Updated- Change Control	**EM021-ISD Entity Map- Table M7 updated to reflect validation of ISD combinations in Registration Systems.**
SNG_035	Connection type indicator	Retained in ISD Entity but no requirement for the Retail Energy Code to qualify MEM's by connection type. Registration System will also not validate to connection type level when considering appointments	Updated- Change Control	**EM021- ISD Entity Map updated to include ISD Entity** **M8- Valid Market Segment Metering Service Mapping**
SNG_037	Off Peak Start Time and Off Peak End Time separation	Updates required to Method Statements to capture separation of these attributes- update required	Updated- Change Control	**METH001- SDS Validation & Estimation** **METH002- ADV Validation & Estimation** **METH004- UMDS- EM Functions** **EM021- ISD Entity Map** **updated to reflect separation of attributes**
SNG_039	Expanded scope of LTV process	Clarification paragraph added to Method 10 on page 15	Updated- Change Control	**METH002- ADV Validation & Estimation- updated to include clarification paragraph**
SNG_040	Clarification on notification of MPAN details in PUB-035 as opposed to PUB-033 for Prospective Service Providers	MPAN/MTD details to be included in PUB-33	Updated- Change Control	DES138- Interface Catalogue updated to include MPAN/MTD details in PUB-33 No change to Conditionally Approved Artefacts
SNG_042	ADS Estimation	Clarification added as new paragraph 2.14 and Standard Method f for export MPANs. Also addressed comment about incorrect CoP leading to failing maximum consumption checks to allow ADS discretion to accept as valid.	Updated- Change Control	**METH002- ADV Validation & Estimation- updated to include clarification paragraph**
SNG_043	Clarity to be provided on Definition of Low Load for ADS Method Statement	Clarification added to paragraph 2.11 covering MAR checks	Updated- Change Control	**METH002- ADV Validation & Estimation- updated to include clarification paragraph**
SNG_044	Parameter Definitions to be agreed within ADS Method Statement	All parameterised values updated besides those dependent on agreement elsewhere (de-minimis counts in Load Shape categories). Also updated the formula and description for estimation Method 5 and Method 7 following revisions to the SDS Method Statement.	Updated- Change Control	**METH002- ADV Validation & Estimation- updated to include clarification paragraph**

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ID	Issue	Update	Status	Artefact(s) Updated
SNG_003	UTC/Clock Time - Metering Updates	Intention to resolve defining date times in DiP interfaces according to ISO 8601 Should clarify this position - believe no further activity required	Propose Closed	No changes to conditionally approved artefacts required
SNG_011	Potential additional Smart attributes required on IF005	Closed following discussion with Comment Owner	Propose Closed	No changes to conditionally approved artefacts required
SNG_013	Consent Granularity	Approach agreed to only use consent outcome codes irrespective of upstream processes / regimes that derive them	Propose Closed	No changes to conditionally approved artefacts required
SNG_017	ECS Meter Point Updates	Reconciliation completed and additional artefact- ECS Registration Archive Requirements- created to provide further clarity	Propose Closed	No changes to conditionally approved artefacts required
SNG_022	MDR ID Definition	Meeting held between programme, RECCo and CSS where it was agreed that existing identifier format will be retained	Propose Closed	No changes to conditionally approved artefacts required
SNG_023	LLF_ID resolution to Registration Service	Reporting Sub Group agreed this would be a 'nice to have requirement' and confirmed it is not needed as visibility of DUoS Tariff ID to LLF ID mapping in ISD	Propose Closed	No changes to conditionally approved artefacts required
SNG_029	D0302/D0225	Confirmed that D0302 and D0225 are customer information related and due to GDPR rules MAPs should not be receiving these	Propose Closed	No changes to conditionally approved artefacts required
SNG_031	IF036 Sequence Change	Discussed and whilst suggestion is not without merit, the Design Team have agreed that change was not necessary. Comment updated	Propose Closed	No changes to conditionally approved artefacts required
SNG_036	ISD Version Date	Reporting sub group have agreed ISD has a version number and date but each ISD Entity does not. ISD Interface specifies generic interface	Propose Closed	No changes to conditionally approved artefacts required
SNG_041	P375 Dependency Check	P375 checked and no impact to MHHS Design Artefacts confirmed	Propose Closed	No changes to conditionally approved artefacts required

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- **23** Dependencies were identified as part of the Conditional Approval of Design Artefacts in Tranche 1, 2 and 3

- **4** Dependencies remain open

- **19** Dependencies have been resolved

- The following slides provide detail of the Design Artefacts which reflect the resolution of the dependency. Further detail can be found in the Dependencies Log here

DEP-ID	Status	Comment Theme	Artefact(s)	Commentary
DEP_001	Open	SDS Reporting	TBC	No requirements for SDS Reporting have been captured from industry parties during discussion with the Working Groups. Design team believe dependency remains- to be evaluated following feedback from industry review
DEP_006	Open	Reconciliation/Enquiry	TBC	Discussions are ongoing with regard to the enquiry service. The programme position is that this is best resolved to EES with uplifted requirements in terms of freshness of data within EES. This leverages an existing enquiry service and mitigates duplication of industry systems that would arise from other options considered. Next steps are: Agree requirement resolution and freshness definitions with industry Continue analysis of data item coverage within existing DiP flows. This is being undertaken to confirm a solution option for EES would be to provision data from existing MHHS subscriptions as opposed to uplifting existing interface between MPRS and EES
DEP_009	Open	Transition	TBC	Delivery of Transition Artefact is not in scope of M5 Baseline
DEP_019	Open	SDS Consideration of MDR TRT	TBC	Dependency linked to ongoing discussions around Level Playing Field/MP162

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DEP-ID	Status	Comment Theme	Artefact(s)	Commentary
DEP_002	Resolved	Business Process Descriptions	MHHSP- BPD001- Change of Supplier MHHSP-BPD002- Change of Service- Metering Service MHHSP-BPD003- Change of Service- Data Service MHHSP-BPD003A- CSS and DCC Updates MHHSP-BPD003B- Change of Existing Service Appointment Details MHHSP-BPD003C- Transfer of Read MHHSP-BPD004- Data Collection MHHSP-BPD005- Data Processing MHHSP-BPD006- New Connection MHHSP-BPD007- Disconnection MHHSP-BPD008- Change of Energisation Status MHHSP-BPD009- Change of Meter MHHSP-BPD010- Change of Registration Data MHHSP-BPD011- Change of Market Segment and/or Connection Type MHHSP-BPD011B- Manage Market Segment (Registration Automation) MHHSP-BPD011C- Registration Service Monitoring and Notifications MHHSP-BPD016- Consumption Amendment	
DEP_003	Resolved	LDSO Data Resolution	MHHSP-DES138- Interface Catalogue	
DEP_004	Resolved	Routing	MHHSP-DES138- Interface Catalogue	
DEP_005	Resolved	ISD	MHHSP-EDI021- ISD Entities MHHSP-EM021- ISD Entity Map	
DEP_007	Resolved	LDSO Interactions	MHHSP-BRS005- LDSO Requirements	

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DEP-ID	Comment Theme	Artefact(s)	Commentary
DEP_008	SLAs & "Square Brackets" & Archiving	MHHSP-OPC001- Operational Choreography	
DEP_010	Change of Segment	MHHSP-BP011- Change of Market Segment and/or Connection Type MHHSP-BP011B- Manage Market Segment (Registration Automation) MHHSP-BP011C- Registration Service Monitoring and Notifications	
DEP_011	Change of Service	MHHSP-BP002- Change of Service- Metering Service MHHSP-BP003- Change of Service-Data Service	
DEP_012	Physical Interface Resolution	MHHS-E2E003- Physical Interface Specifications	
DEP_013	Operational Choreography	MHHSP-OPC001- Operational Choreography	
DEP_014	Interface Update	MHHPS-DES138- Interface Catalogue	
DEP_015	Import Export & Related MPANs	MHHSP-BP010- Change of Registration Data MHHSP-BP002- Change of Service- Metering Service MHHSP-BP003- Change of Service-Data Service MHHSP- BP003C- Transfer of Reads- Change of Data Service	
DEP_016	Consumption Adjustments/Correction	MHHSP- BP016- Consumption Amendment MHHSP- BPD016- Consumption Amendment	

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DEP-ID	Status	Comment Theme	Artefact(s)	Commentary
DEP_017	Resolved	Non Functional Requirements	MHHS-E2E002- End to End Non-Functional Requirements	
DEP_018	Resolved	ECS Reporting Requirements	MHHSP-ERI011A- ECS Reports- Internal MHHSP- ERI011B- ECS Reports- External	
DEP_020	Resolved	Resolution of LSS Delivery to non-DiP actors	MHHSP-BRS007- Load Shaping Service Business Requirements MHHSP-BPD018- Load Shaping Service MHHSP-BRS010- Industry Standing Data Business Requirements MHHSP-BPD021- Industry Standing Data	
DEP_021	Resolved	Registration Validation Rules	MHHSP-DES138- Interface Catalogue	
DEP_022	Resolved	Audit and Retention Requirements	MHHSP-OPC001- Operational Choreography	
DEP_023	Resolved	ECOES Requirements Document	MHHSP-BRS006- ECOES & SDEP Recommendations	

- 8 items were added to the Dissensus Register where consensus on elements of the design could not be reached in the Sub-Working Groups

- 6 items have been resolved through discussion with the Business Process & Requirements Working Group (BPRWG) and the related Design Artefacts updated to reflect the agreed position

- 2 items have been closed as the issue has been resolved through the Sub-Working Group discussion and design elements agreed

- Further detail is included in the Dissensus Register here

ID	Non Consensus Issue	Summary	Status	Outcome
DIS001	Service Appointment initiation	The MHHS Design currently caters for the Service Appointment process to be invoked at the point of the Pending Switch message being received The Design is based on the assumption that it is key to allow activity to set-up appointments in a timely manner to avoid excessive compression of activity within the period immediately following the Secured Active window leading to requirements for very short response times from parties Discussion within the Operational Choreography Working Group sessions has further clarified the issues of the compressed timescales noting that time is required for suppliers to deal with issues arising from the appointment process	Resolved	BPRWG agreed that this is no longer a Dissensus issues as it has been superseded by the decision reached in the Operational Choreography Sub-Working Group around the point at which the information being provided to Suppliers is triggered to enable them to appoint agents
DIS002	Change of Segment process	The Change of Segment process is based upon the blueprint for the Change of Service to ensure consistency across all MHHS processes, however, an alternative process has been suggested by independent agents which differs from the consistent approach	Closed	Superseded by Working Group discussion
DIS003	Change of Segment- alignment of service appointment and meter works date	It has been proposed that business rules be incorporated into the Change of Segment process to enable retrospective alignment of appointment date to meter works date	Closed	Superseded by Working Group discussion
DIS004	Customer Direct Contract Flag Maintenance	The MHHS Design incorporates a mechanism to allow services to flag within the registration system the presence of a customer direct contract to inform suppliers as part of the Change of Supplier process The design allows all services to flag this for a particular meter point A participant has challenged this expressing a view that only an appointed party should be permissioned to set this flag	Resolved	Consensus reached in BPRWG that only the incumbent should set the flag

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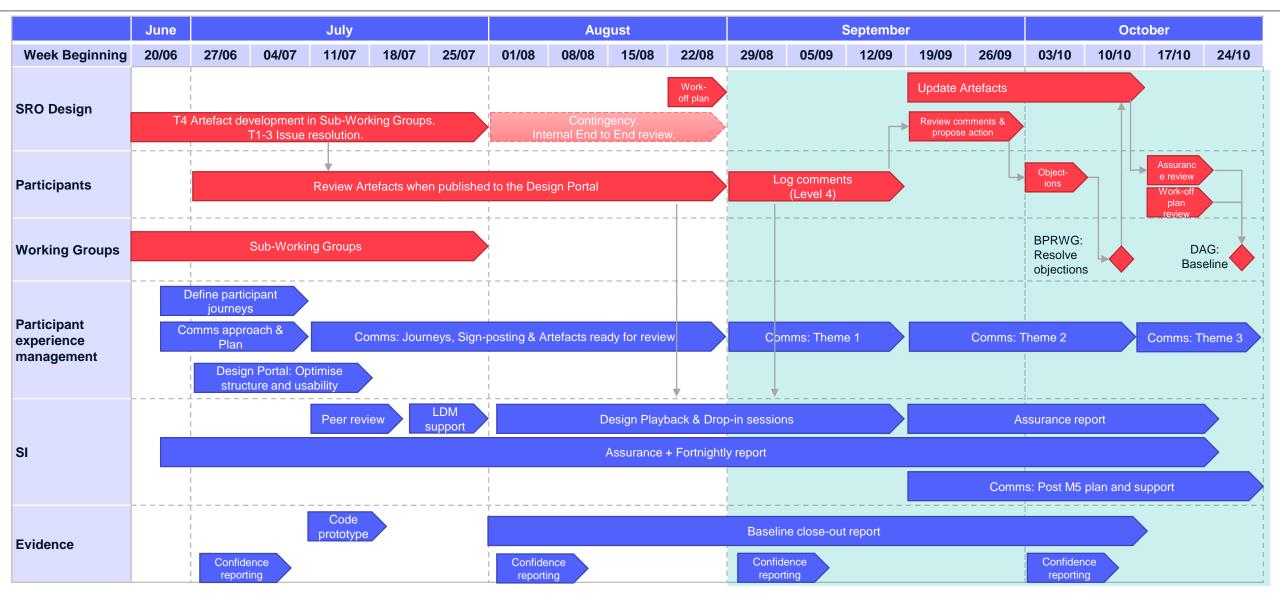| ID	Non Consensus Issue	Summary	Status	Outcome
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ID	Non Consensus Issue	Summary	Status	Outcome
DIS005	Resolution of D0142 to new DiP Flow	Opinion is split between participants as to whether an option to send the D0142 flow via the DiP should be provided. No consensus has been reached within the Sub-Working Group. Issues have been identified with the D0142 flow as it currently stands and some parties do not use it in their existing processes. There is an opportunity to resolve the issues with the existing flow via resolution to DIP and to potentially include other requests for work flows, such as energisation changes. Note- this proposal would require additional change for parties to deal with an additional DiP interface.	Resolved	Consensus reached in BPRWG not to pursue resolution of the D0142 flow to a new DiP flow at this stage.
DIS006	IHD- Field Present in IF005	IF005 incorporates the IHD field as a mechanism to provide the IHD Install Status (I/D/E/F) if a metering service provides a device to a consumer during the SMART installations Design Team notes that this is not the only mechanism of delivering the devices and this is therefore optional Design team feels there is value in providing a mechanism for this noting it's use is not mandated Challenge received from a participant suggesting this should not be present at all	Resolved	Consensus reached in BPRWG that the detail is exchanged by other means and there is a mechanism for the Supplier to update the Registration Service, therefore there is no value in including this field.
DIS007	Contention with REC0040	There is change request in flight with REC. REC0040 seeks to remove the requirement for MPRS to process any CSS Status updates, other than the Secured Active message, as part of the switching process.

The current MHHS design relies upon the receipt of the Pending Switch message by the Registration Service to trigger the sending of IF-002 which provides suppliers metering point information which allows the automated determination & generation of Service Appointment Flows

Seek a decision from the working group to inform the programme's position with regard to this change request | Resolved | Consensus reached in BPRWG to retain the processing of the Pending Switch within the registration service |
| DIS008 | Requirement for D0010 Rejection flows from Data Service | On receipt of a Supplier provided reading, (IF-41/D0010) the current design does not provide a mechanism for an explicit rejection where the SDS chooses not to use the reading provided (failed validation or other reasons) as part of the estimation process. One party has challenged this position. Please see supporting information below. | Resolved | Consensus reached in BPRWG to retain D0010 for Trad meters |

M5 Design baseline - Plan on a Page (v1.1)