

Design Advisory Group #8 13 April 2022

Version 1.0

MHHS-DEL351

Agenda

| # | Item | Objective | Туре | Lead | Time | Page |
|----|--|--|-------------|--|-------------------------------|-------|
| 1 | Welcome | | | Chair | 10:00-10:05 5 mins | 2 |
| 2 | Minutes and Actions | Approval of minutes and review of outstanding actions. | Decision | Chair & Secretariat | 10:05-10:15 <i>10 mins</i> | 3-6 |
| 3 | Governance Group Updates | Provide relevant updates from other MHHS Programme L2-3 governance groups. | Information | Programme (PMO) | 10:15-10:25 <i>10 mins</i> | 7-8 |
| 4 | DAG Design Principles | Review draft customer design principle, and notice of other. updates | Decision | Programme (Ian Smith) | 10:25-10:35 <i>10 mins</i> | 9-11 |
| 5 | Level playing field design principle | Updates on actions related to SEC MP162. | Information | Chair | 10:35-10:50 <i>15 mins</i> | 12-13 |
| 6 | Design Decisions | Discussion on ROM costs provided by DAG members and design team to inform decision on technical addressing options. | Decision | Programme (Ian Smith) | 10:50-11:15 25 mins | 14-16 |
| 7 | MHHS Design Dashboard | Provide update on overall progress of design workstream. | Information | Programme (Ian Smith & Claire Silk) | 11:15-11:25 10 mins | 17-19 |
| 8 | Level 4 Working Group Updates | Updates from design working groups. Update on design artefact review. Provide updates on review of the design artefact tracker, Tranche 1 and Tranche 2. | Information | Programme (Ian Smith & Claire Silk) | 11:25-11:35 <i>10 mins</i> | 20-25 |
| 9 | Post Baseline Design Repository Tooling | Provide information on arrangements for enduring management of design artefacts following completion of design activities. | Information | Programme (Simon Harrison) | 11:35-11:45 10 mins | 26-30 |
| 10 | Summary and next steps | Summarise actions and plan agenda for next meeting. | Information | Chair & Secretariat | 11:45-11:55 10 mins | 31-33 |
| | Appendices | | | | | 34-35 |

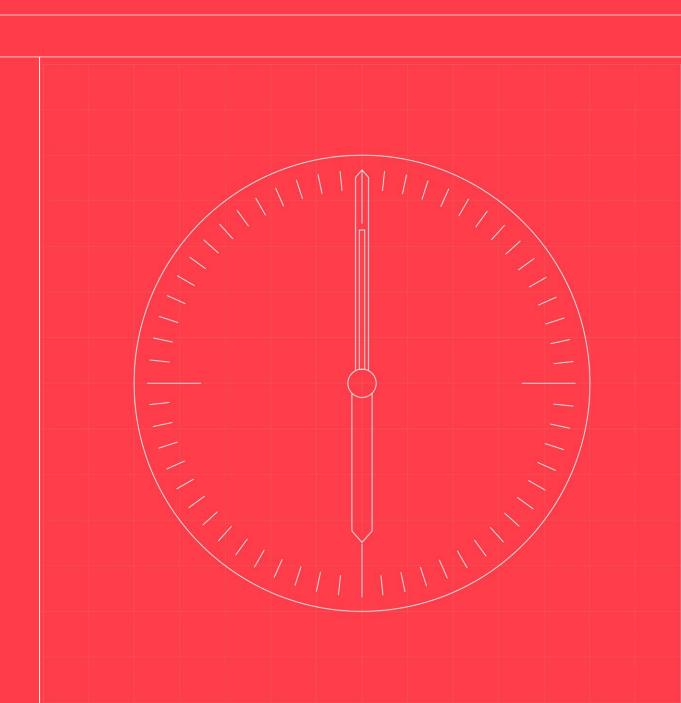


Minutes and Actions

DECISION: Approval of minutes and review of actions

Chair & Secretariat





Minutes and Actions Review (1 of 3)

- Approval of Minutes from Extraordinary DAG006.1 held <u>17 March 2022</u>
- Approval of Minutes from DAG007 held <u>23 March 2022</u>
- Outstanding actions:

| Ref | Date | Action | Owner | Due Date | Status |
|-----------|------------|--|--------------------------|------------|--|
| DES-03-05 | 12/01/2022 | 'Draft Design Principle' – PRI-20 – 'Retrospective Appointments' - IS, CH and SCha to discuss further for understanding and clarification of this principle. | lan Smith | 13/04/2022 | ONGOING - Dates proposed, awaiting agreement and scheduling. |
| DAG04-02 | 09/02/2022 | Follow up with Craig Handford on the Design Principles and clarity on the E2E Design | Ian Smith | 13/04/2022 | RECOMMEND CLOSED - Discussion held between IS and CH. |
| DAG04-03 | 09/02/2022 | Look at when to stand up the Consequential Change Impact Assessment Group (CCIAG) | Programme | 11/05/2022 | ONGOING - Still under consideration, further discussion to held with parties. |
| DAG04-10 | 09/02/2022 | Schedule DAG sub-groups for further discussion on the level playing field principle as required | РМО | 09/03/2022 | RECOMMEND CLOSED - Extraordinary DAG held 17 March 2022 with outcome that Smart Meter Segment Sub-Group (SDS) must consider TRT requirements to inform next steps. Programme will issue paper for review by SDS detailing matters for determination. Recurring discussion item to be added to Level Playing Field Principle standing agenda item to cover all discussions/updates relating to SEC MP162. |
| DAG06-01 | 09/03/2022 | Review alignment between related MPAN modifications and design subgroup | Programme (Ian Smith) | 27/04/2022 | ONGOING - Programme (Design Workstream) have reviewed internally and discussion to be held with DAG Member (CH) upon return from leave. |
| DAG06-04 | 09/03/2022 | Review SEC MP162 to ensure alignment with MHHS design | Programme (Ian Smith) | 13/04/2022 | RECOMMEND CLOSED - Review of alignment embedded in Design Workstream activities. Current review activities involve specific queries to DCC regarding Meter Data Retrieval. Recurring discussion item to be added to Level Playing Field Principle standing agenda item to cover all discussions/updates relating to SEC MP162. |
| DAG06-05 | 09/03/2022 | Programme to consider whether attendance at SEC MP162 working group is required | Programme (Ian Smith) | 13/04/2022 | RECOMMEND CLOSED - Programme attendance at SEC MP162 working group confirmed. Updates will be provided via recurring discussion item under Level Playing Field Principle standing agenda item to cover all discussions/updates relating to SEC MP162. |
| DAG06-06 | 09/03/2022 | Programme to check if response provided to second consultation on SEC MP162 and provide update to DAG | Programme (Ian Smith) | 13/04/2022 | RECOMMEND CLOSED - Programme confirm response not provided to second consultation as views/comments not materially different to response provided to first consultation. |



Minutes and Actions Review (2 of 3)

| Ref | Date | Action | Owner | Due Date | Status |
|------------------------|--------------|--|----------------------------|------------|--|
| DAG06-07 | 09/03/2022 | Circulate updated design principles and include updated level playing field | Programme (Ian Smith) | 13/04/2022 | RECOMMEND CLOSED - updated principles to be discussed under agenda item 4 (DAG Design Principles). |
| DAG06-08 | 09/03/2022 | Draft customer principle and return to group with update | Craig Handford | 13/04/2022 | RECOMMEND CLOSED - Draft principle received and to be reviewed under agenda item 4 (DAG Design Principles). |
| DAG06-09 | 09/03/2022 | Update Design Principle 8 to reference all relevant industry codes | Programme (Ian Smith) | 13/04/2022 | RECOMMEND CLOSED - update complete and to be discussed under agenda item 4 (DAG Design Principles). |
| DAG06-10 | 09/03/2022 | Provide cost implications of Option 1 relating to primary and secondary requirements within the technical addressing options, to PMO@mhhsprogramme.co.uk | DAG members | 13/04/2022 | ONGOING - No information received. Updates from the Programme and DAG members to be discussed under agenda item 4 (DAG Design Principles). |
| DAG06-11 | 09/03/2022 | Produce rough order of magnitude (ROM) comparison for Options 1, 2 and 3 of the primary and secondary requirements within the technical addressing options for consideration by DAG | Programme (Ian Smith) | 13/04/2022 | RECOMMEND CLOSED - ROM information provided by Programme for discussion under agenda item 4 (DAG Design Principles). |
| DAG06.1-0 ² | 1 17/03/2022 | Consult the Smart Market Segment Sub-Group (SDS) user group on whether there is a requirement for Target Response Times (TRTs) of less than 24 hours for meter data retrieval related to MHHS, and associated scenarios, frequency of retrieval, and cost implications for suppliers | Programme (Design Team) | 13/04/2022 | RECOMMEND CLOSED - Programme will issue paper for review by SDS detailing matters for determination. Updates will be provided via recurring discussion item under Level Playing Field Principle standing agenda item to cover all discussions/updates relating to SEC MP162. |
| DAG06.1-02 | 2 17/03/2022 | Consider whether closer working with SEC working groups is required and consider joint working group with SEC and MHHS parties regarding SEC MP162 and data retrieval from DCC systems | Programme (Design Team) | 13/04/2022 | RECOMMEND CLOSED - Programme representative will attend SEC MP162 working group. Updates will be provided via recurring discussion item under Level Playing Field Principle standing agenda item to cover all discussions/updates relating to SEC MP162. |
| DAG07-01 | 23/03/2022 | Programme to ensure SDS group discuss SEC MP162 as soon as possible to inform SEC working group | Programme (Design Team) | 13/04/2022 | RECOMMEND CLOSED - Programme will issue paper for review by SDS detailing matters for determination. Updates will be provided via recurring discussion item under Level Playing Field Principle standing agenda item to cover all discussions/updates relating to SEC MP162. |



Minutes and Actions Review (3 of 3)

| Ref | Date | Action | Owner | Due Date | Status |
|----------|------------|--|-----------------------------|------------|---|
| DAG07-02 | 23/03/2022 | Chair to discuss with SECAS whether working group for SEC MP162 should be postponed to await the outcome of MHHS SDS discussion regarding MDR TRT requirements are included within SEC MP162 | Programme (DAG Chair) | 13/04/2022 | RECOMMEND CLOSED - Chair discussed with SEC and agreed to hold weekly catch-up meetings. Current response from SEC regarding postponement is SEC MP162 meetings will not be delayed or postponed. Dialogue ongoing. Updates will be provided via recurring discussion item under Level Playing Field Principle standing agenda item to cover all discussions/updates relating to SEC MP162. |
| DAG07-03 | 23/03/2022 | Programme to bring future versions of DIP Functional Specification and Non-Functional Requirements to DAG, once further updates incorporated | Programme (Design Team) | 11/05/2022 | ONGOING - Programme advise confirmation will be provided to DAG when timeframes known for next iterations of documents, which will not be before May 2022. |
| DAG07-04 | 23/03/2022 | Programme (Charles Hyde) to notify Chair of documents in the DIP procurement pack and provide information on how they have been drafted and reviewed, to ensure good procurement practice has been followed and determine whether DAG approval is required | Programme (Charles Hyde) | 28/03/2022 | RECOMMEND CLOSED - List of documents provided and reviewed by DAG Chair. Majority of procurement pack documents will be presented to DAG for review. Review currently anticipated for May 2022. |
| DAG07-05 | 23/03/2022 | Chair to update DAG on the outcome of ACTION DAG07-05 relating to documents within the DIP procurement pack | Programme (DAG Chair) | 13/04/2022 | RECOMMEND CLOSED - List of documents requiring review by DAG provided in Appendix 1 of meeting papers. |
| DAG07-07 | 23/03/2022 | Programme to add documents relating to transition to the design artefact log | Programme (Claire Silk) | 13/04/2022 | RECOMMEND CLOSED - Updates completed as requested. |

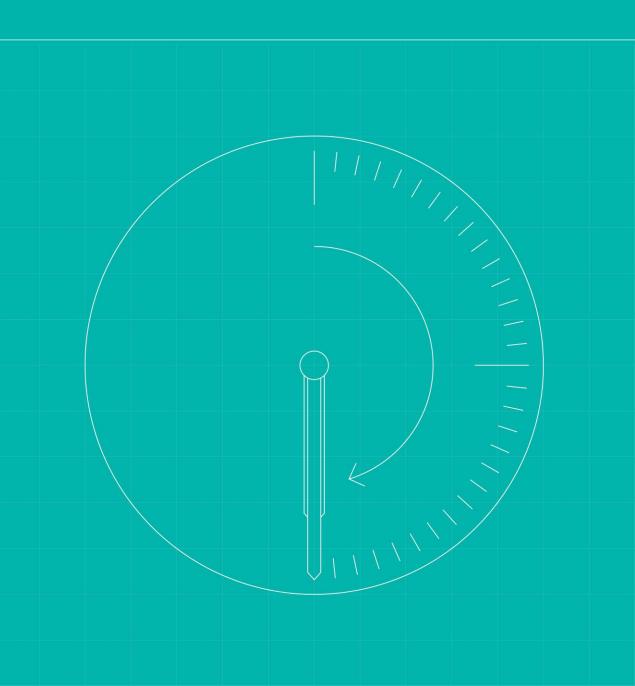


Governance Group Updates

INFORMATION: Provide relevant updates from other MHHS Programme L2-3 governance groups

Programme - PMO





L2 and L3 Governance Group Updates

Programme Steering Group (PSG)

Update from PSG 07 April 2022

- 1. CR001 and CR002 Change Requests The Programme presented the outputs of the impact assessments from programme participants on CR001 and CR002. The IPA provided their view and recommendation. Each constituency representative provided their view on the Change Requests and voted for the Change Request they preferred. Based on the outputs of impact assessment and the views of constituency representatives, the SRO made the decision to recommend CR001 to Ofgem for a decision. Full detail and rationale will be provided in the PSG Headline Report.
- Readiness Assessment An update was provided on Readiness Assessment 1. Feedback was given by PSG members to include in the final report.
- **3. Data Integration Platform (DIP)** The Programme provided an update on DIP.
- 4. Further updates Several smaller updates were provided, such as on the status of other Change Requests (e.g. CR003-05), the MHHS Open Day, and Central Party finances.
- Programme Dashboards Questions were taken on Programme Dashboards. Some dashboards will be updated following feedback.

Cross-Code Advisory Group (CCAG)

Update from CCAG 23 March 2022

- 1. Smart Meter Act Powers (SMAP) An update was provided by Ofgem on the use of SMAP. The powers can be activated in c.40 working days and do not require parliamentary time, meaning they can be activated even when Parliament is in recess. The powers are active for five years following commencement and can be employed in directing multiple tranches of code change, if necessary.
- 2. Change Request to delay M6 and M7 CCAG members agreed to the raising of a Change Request to change the dates of the M6 and M7 programme milestones relating to the delivery of code drafting and activation of SMAP by Ofgem. This was presented to the Change Board on 24 March 2022 and will be submitted to impact assessment. Code Bodies are now working through the specific areas of code that are likely to require change and the required resource (e.g. registrations, load shaping service, etc.). The Change Request includes:
 - a) Move M6 to 9 months after M5
 - b) Re-define M6 to 'code changes baselined'
 - c) Move M7 to 10 months after M5

Testing and Migration Advisory Group (TMAG)

Update from TMAG 16 March 2022

- the ToR of the Data Working Group, whose remit is to determine test data requirements. The TAG also approved changes to its own ToR, to include migration activities within the remit of the group, and accordingly becoming the Testing and Migration Advisory Group (TMAG). Updates to relevant documentation have been completed to now reflect TMAG, together with a Change Request that went to Change Board on 24 March to update the MHHS Governance Framework.
- 2. E2E testing strategy The principles underpinning the end-to-end testing strategy were discussed in detail and agreed. The E2E Testing strategy will now be formally written up.
- Migration Working Group (MWG) The TAG
 agreed to mobilise the MWG, whose remit will be to
 provide expert input on migration activities to
 ensure the transition from old to new systems work
 effectively.

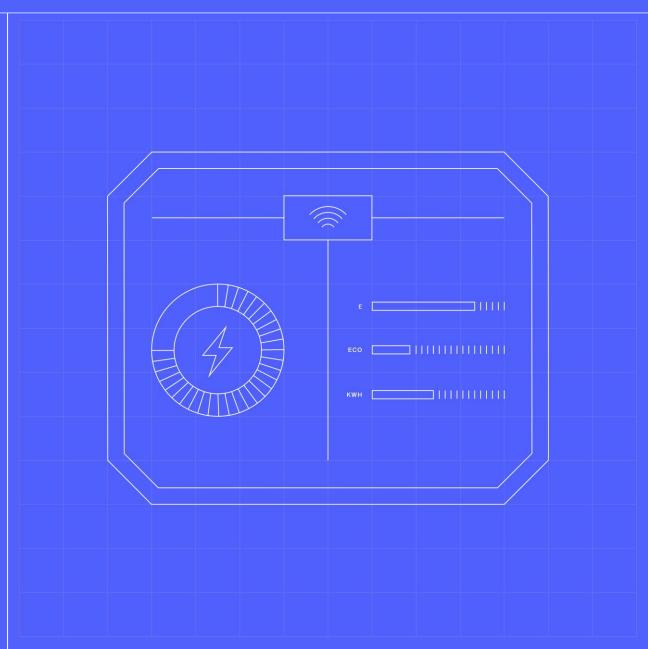


DAG Design Principles

INFORMATION: Review draft customer design principle, and other updates

Programme – Ian Smith





High Level Design Principles (1 of 2)

The items listed below represent the current programme view of the high-level principles to be applied to the end-to-end design.

It should be noted that these principles should be adhered to wherever possible, this does not rule out instances where DAG may deviate from these where sufficient justification exists to deliver the core elements of the solution.

| Ref | Principle | Scope | Sub-Principle | References |
|-----|--|-------------|--|---|
| "0" | The solution will be designed to support timely and accurate settlement. | System Wide | | |
| 1 | The solution will implement the TOM at a service level with prescribed interfaces between TOM services. The design will be agnostic as to the physical resolution that parties choose in the build of the services, it will only proscribe requirements and such physical characteristics as to enable interface build. | System Wide | | PRI017 |
| 2 | Energy Suppliers can choose how they deliver their TOM Data Services (direct or procured). Suppliers may perform any aspect of any service subject to qualification. | System Wide | | PRI016 |
| 3 | The DIP solution will remain stateless and will not execute Business Processing rules. For the purposes of this principle address derivation and routing are not considered business rules. | DIP | Sending parties are responsible for any follow up for business processes requiring completion (PRI026) | PRI024.PRI025 |
| 4 | No new DTC flows will be created to resolve interface requirements for MHHS. Nor will there be facsimiles of existing DTC flows created on the DIP. | System Wide | | |
| 5 | Where optionality exists with regard to resolving an interface to either the DIP or remaining on the DTN the solution will consider the full set of interfaces related to a process or service. i.e. if the majority of flows within a process use the DIP it would not be desirable for outliers to remain on the DTN. | System Wide | | |
| 6 | Solution assumes that the data held/mastered by the owner/manager is correct. Services will undertake processing in good faith based on the data provided to them. This does not preclude the potential requirements for exception reporting and reconciliation requirements to rectify data quality issues. | System Wide | Will not duplicate items held in other systems(PRI004/005) Will only hold what is required to route messages Will not validate customer opt out (PRI008) | PRI003. PRI001. PRI010. PRI011. PRI019 |



High Level Design Principles (2 of 2)

| Ref | Principle | Scope | Sub-Principle | References |
|-----|--|-------------|---|---------------|
| 7 | TOM Service Operators will be responsible for reporting data accuracy issues to the data owner/manager | System Wide | | PRI003 |
| 8 | Data will be processed by all parties promptly and in accordance with BSC Procedures applicable industry codes | System Wide | [Data services should process data in accordance with the settlement timetable] | PRI010 |
| 9 | The solution will seek to minimise total cost to industry in the delivery of the OFGEM approved TOM services and Integration platform | System Wide | | PRI027 |
| 10 | The solution will be secure, scalable for volume, latency, interfaces and other key technical dimensions. | DiP | | PRI015.PRI028 |
| 11 | Interfaces will only pass those elements of data required in direct support of their governing business process and requirements. Where a changed value falls within a logical group of data e.g. House number in an address the logical group will be sent. | System Wide | | |
| 12 | Design will be articulated with sufficient breadth and detail required to enable regulatory code drafting in addition to enabling Service Design, Build, Test & Operate. | System Wide | | |
| 13 | Any technology selection will be mindful of future use cases | DIP | | |
| 14 | The solution will seek to maximise the benefits for consumers receiving MHHS services via current and future use cases. This includes benefits from smart metering and other areas captured in the business case. | System Wide | | |
| 15 | All market participants, operating under MHHS Target Operating Model, will be afforded the ability to deliver the same level of service for the same MHHS service | System Wide | | |

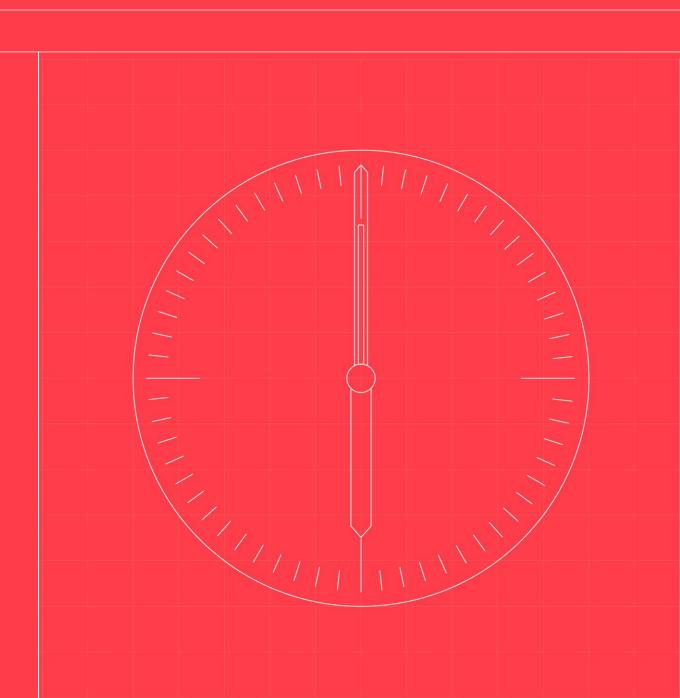


Level playing field design principle

INFORMATION: Updates on actions related to SEC MP162

Chair





Level playing field and SECMP162

Level play design principle added see previous slides

DAG actions:

Reviewing alignment of design and MP162. Part of Design workstream and elements taken to SDS sub group

- Design paper to SDS re <24hr TRTs use cases, frequency and materiality
- Design Team attend SEC MP162 WG. Kevin Spencer
- MHHS Programme response to MP162 consultation: replied to 1st, but not 2nd as no material change in programme comments between 1st and 2nd
- consideration of joint WG with SEC; depends on outcome of SDS discussions on <24 TRT requirements
- postponement of MP162 Work group: SECAS keen to maintain current timeline due to implementation date and have weekly catch ups

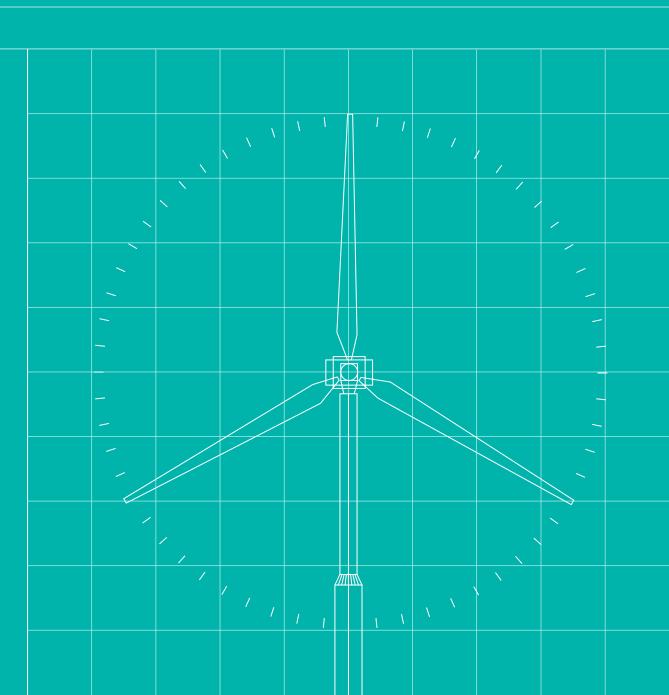


Design Decisions

DECISION: Discussion on ROM costs provided by DAG members and design team to inform decision on technical addressing options

Programme – Ian Smith





Design Decisions – Addressing ROM - Summary

Analysis has been performed on the addressing options considered previously by DAG from a cost/effort perspective.

In the absence of the ability to complete detailed impact assessments the high-level areas of impact have been identified and cost estimates provided where it is reasonable to do so. Estimates provided are high level ROM assessments and for certainty would require full impact analysis.

Option 1 – Participant management of secondary addressing

The change drivers are the requirements for multiple parties to maintain a view of potential secondary parties, this would need to be facilitated by consuming additional registration flows and maintaining a view of appointed parties. Furthermore, if additional requirements were identified for secondary parties to receive information, this would require changes across multiple parties.

Option 2 - Secondary addressing orchestrated via DiP

Attracts cost in the changes required to capture appointed party information from the registration flows that are processed by the DiP and the maintenance of a data structure and associated cache for interrogation by the required routing service. Changes to support this whilst more material than those required for an individual party to implement Option 1 are only required to be made in the DiP.

Option 3 - Secondary routing information derived from an external system

The areas impacted in this instance would be the external system provisioning the secondary addressing system and the DiP itself. Any existing system would be required to deal with an additional enquiry load of tens of millions of transactions per day. This would certainly require a significant infrastructure uplift in terms of compute and network capacity and potentially may require development activity to service the additional high volume of information flows. In terms of the DiP as a delta from the core functionality the DiP would also require a similar infrastructure uplift to deal with the volume of traffic. Given the high number of charging models for this activity in the market it is difficult to arrive at specific costs for this particular element.

Also the provisioning system would be required to align to DiP Non-functional requirements in terms of RTO and Availability which could potentially attract significant cost if they are significantly different.



Design Decisions – Addressing ROM – Impact Comparison

| | Option 1 | Option 2 | Option 3 |
|--|--|---|--|
| Participant Developmen | Maintenance of view of linked secondary parties using views of registrations flows Awaiting Feedback from parties however would expect circa 20 Days Design, Build and Development Therefore assuming this impacts 15 parties total effort would be in the order of 1k days effort. Assuming a day rate of £500 this would be a total development ROM cost of £150k | • N/A | Third Party Registration Service(s) Potential significant increases to network and compute costs to process additional 30 million API calls per day |
| DIP Development | N/A - No Delta | Development of Processes to capture and update Agent Appointment data from registration flows - circa 20 interfaces Development of Physical Data Structure and Cache for Appointment Reference Table(s) - Data modelling build and test Development of Secondary Party Derivation Process as part of Event Publishing Routines - Separate service to be developed to facilitate lookup from routing data store ROM Estimate - 100 Days Design and Build with 60 Days System Testing Assuming a day rate of £500 this would be a total ROM cost of £80k | Development of Secondary Party Derivation Process as part of Event Publishing Routines Rom Estimate of 50 days DBT |
| Infrastructure Costs Considerations | Believe at the individual party level there would be no material increase in infrastructure costs | Additional storage to deal with physical storage for routing view and hosting of secondary routing service. Would not expect these infrastructure costs to be significant when set against the overall DiP Infrastructure Potential RDBMS deployment with associated license costs | Significant additional run costs for external API traffic Significant additional run costs for network/bandwidth infrastructure Potential for significant costs if the provisioning system is required to uplift non-functional requirements to align to the DiP |

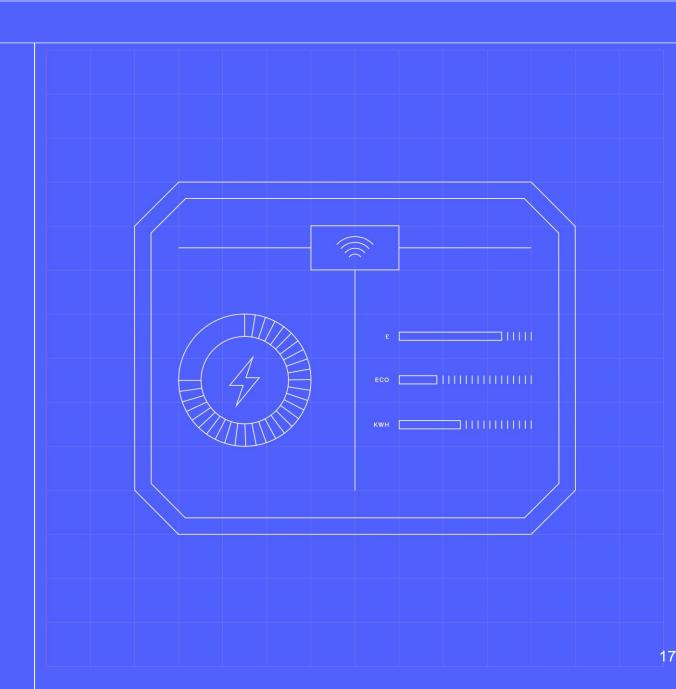


MHHS Design Dashboard

INFORMATION: Updates from DAG Working Groups

Programme – Ian Smith & Claire Silk





MHHS Design Dashboard

Design Workstream Overview

- RAG status is Green for the majority of Design Artefacts as they are on target for the Tranche release dates
- The re-issue of Tranche 1 artefacts was delayed by 1 week due to the volume of comments received. Documents were published on 28th March for a further 2 week review period. The Design team are reviewing activity and capacity around resolution of comments to ensure processes are robust
- There is a risk around the level of engagement and quoracy within the sub-working group activity which may result in a high volume of comments in subsequent tranche reviews as participants who have not actively engaged in the sub-working groups engage in the process.
- DIP Functional Specification and Non Functional Requirements have been reviewed by TDWG and DAG have agreed this can form the technical basis of the documentation within the RFP

| Tranche | MHHS Service | Artefacts | RA | AG | Planned | Expected | Current status and issues | Actions to resolve |
|---------|----------------------------|-----------|------------|------------|-----------|-----------|--|--|
| Tranche | MINIO Service | Arteracts | Last month | This month | DAG Month | DAG Month | Current Status and Issues | Actions to resolve |
| | Load Shaping Service | 5 | | | Apr | Apr | High levels of comments in first review. Initial updates made, republished for review | Resolution of outstanding comments |
| 4 | Registration Service | 16 | | | Apr | Apr | High levels of comments in first review. Initial updates made, republished for review | Resolution of outstanding comments |
| ' | Metering and Data Services | 6 | | | Apr | Apr | High levels of comments in first review. Initial updates made, republished for review | Resolution of outstanding comments |
| | DIP Technical Documents | 3 | | | Mar | Mar | Approved for issue within DIP RFP, accepted that further iteration is expected | |
| | Registration Service | 15 | | | Мау | Мау | Lack of supplier input into Change of Service work-groups | Explore options to specifically seek supplier feedback in initial Tranche 2 review |
| | Advanced Data Service | 2 | | | May | May | Design activity ongoing with Advanced Sub-working Group, on schedule for Trance 2 release | |
| | Unmetered Data Service | 1 | | | May | May | Design activity ongoing with Unmetered Sub-working Group, on schedule for Trance 2 release | |
| 2 | Smart Data Service | 2 | | | May | May | Design activity ongoing with Smart Sub-working Group, on schedule for Trance 2 release | |
| | Demand Disconnection Event | 4 | | | May | May | Design activity ongoing with ECS Sub-working Group, on schedule for Tranche 2 release | |
| | Marketwide Data Service | 4 | | | May | May | Design activity ongoing with ECS Sub-working Group, on schedule for Tranche 2 release | |
| | Volume Allocation Service | 4 | | | May | May | Design activity ongoing with ECS Sub-working Group, on schedule for Tranche 2 release | |



MHHS Design Dashboard

| Tranche | MHHS Service | Artefacts | RAG Last month This month | Planned DAG Month | Expected DAG Month | Current status and issues | Actions to resolve |
|---------|--|-----------|------------------------------|----------------------|--------------------|---|---|
| | Registration Service | 3 | | June | June | Drafting on schedule | |
| | Unmetered Data Service | 2 | | June | June | Drafting on schedule | |
| | Metering Services | 2 | | June | June | Drafting on schedule | |
| | Industry Standing Data Service | 3 | | June | June | Drafting on schedule | |
| 3 | Settlement | 2 | | June | June | Reporting requirements are currently under review to determine size of activity | Confirm whether the design artefacts will be split into two with some elements delivered in Tranche 4 |
| | Global | 2 | | June | June | Drafting of the Operational Choreography document is behind schedule due to capacity issues | Options under consideration to resolve capacity issues |
| | Technical Architecture | 1 | | June | June | Drafting behind schedule due to additional capacity required to support RFP | Options under consideration to resolve capacity issues |
| | Registration Service | 7 | | July | July | Drafting on schedule | |
| 4 | Networks | 1 | | July | July | Size of activity still to be determined pending finalisation of ongoing activity to determine data requirements | Ongoing engagement with DNO/IDNO participants to confirm requirements |
| | Metering Services | 1 | | July | July | Drafting on schedule | |
| | Technical Architecture | 2 | | July | July | Drafting on schedule | |
| | Security Artefacts | 4 | | July | July | Drafting on schedule | |
| TBC | Meter Faults and Settlement Queries | 2 | | TBC | TBC | Scope of activity is not fully understood | Scope to be defined |



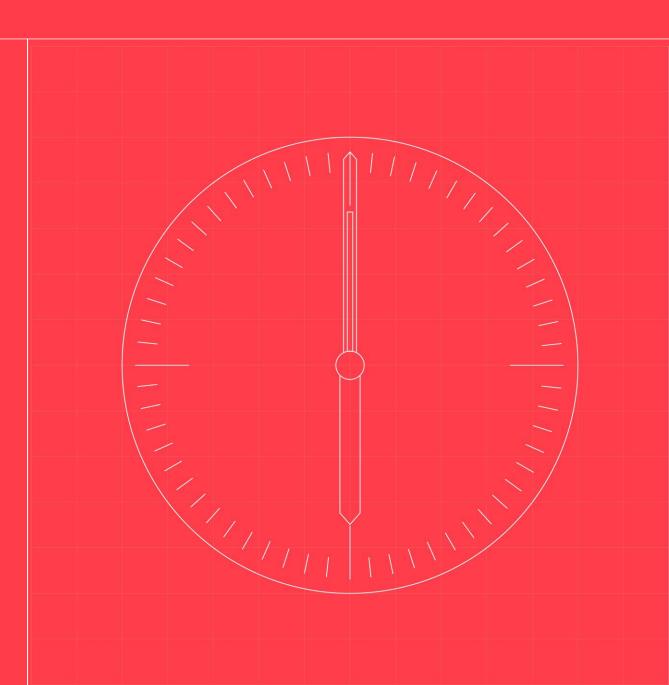


Level 4 Working Group Updates

INFORMATION: Updates from design working groups

Programme – Claire Silk





MHHS Design- Level 4 Working Group Updates

- The <u>Design Artefact Tracker</u> is now available in the Design Document Library- this is a live document which will be maintained going forward to reflect the current status of all design artefacts.
- Work is ongoing to provide additional detail within the tracker including:
 - The number of comments received for each artefact and status of comments
 - Any outstanding design issues associated with each artefact
 - Expected DAG approval submission dates for each artefact
 - Technical and Security design artefacts to be added
- A forward view of the <u>Design Working Group Schedule</u> is also available in the document library- the schedule currently includes activity through to June and will be maintained to provide visibility of the following:
 - L3/L4 Design Governance meetings
 - BPRWG Review tranche release dates
 - Sub-Working Group paper dates and meetings



MHHS Design- Level 4 Working Group Updates

BPRWG- Design Artefact Review

Update on the Design Artefact Review by the Business Process & Requirements Working Group for March 2022

- Tranche 1- 707 comments received in 1st review period, of which 446 have been accepted, 44 rejected and the remaining 217 require further work to resolve. Updated design artefacts reissued for 2nd review on 28th March.
- Tranche 2- Design artefacts comprising Service Appointments, MDS and VAS issued for 1st review on 4th April.
- Focus for April:
 - Addressing comments from Tranche 1
 - Sub-Group review of Tranche 3 design artefacts

Technical Design Working Group

Update on Technical Design Working Group activity for March 2022

- Initial DIP Functional Specification, Non-Functional Requirements issued as part of RFP.
- Work ongoing to draft the E2E Technical Architecture
- Focus for April:
 - Review End to End Architecture with TDWG
 - Support RFP Process

Security Design Working Group

Update on Security Design Working Group activity for March 2022

- Initial Security Requirements issued as part of RFP.
- Work ongoing to draft Security Artefacts
- Focus for April:
 - Review Security Artefacts with SDWG
 - Support RFP process



MHHS Design- BPRWG Sub-Working Group Updates

Registration

Update on Registration Sub-Group activity for March 2022

- Design activity progressed based upon the options agreed by DAG with regard to Service Appointments
- The following Business Process Diagrams and related interface specifications are due for release in Tranche 2:
 - Change of Supplier
 - Change of Agent- Metering Service
 - Change of Agent- Data Service
- Focus for April:
 - Addressing comments from Tranche 1
 - Change of Segment

Elexon Central Systems (ECS)

Update on Elexon Central Systems (ECS) Sub-Group activity for March 2022

- Working on all the ECS services focusing on MDS, VAS, DDE, ISD and ECS reporting
- Addressing all the Tranche 1 comments on LSS
- Focus on the production review of Process
 Diagrams/descriptions, requirements and method statements due for release in Tranche 2 in April:
 - Market-wide Data Service (MDS)
 - Volume Allocation Service (VAS)
 - Demand Disconnection Events (DDE)
- Focus for April:
 - Addressing comments on Tranche 1 and Trance 2
 - Developing ISD and ECS reporting requirements for Tranche 3

Cross Sub-Group Meetings

Update on the Cross Sub-Group activity for March 2022

- Related MPAN's & Load Managed areasmeeting held on 3rd March
- Metering Service session held on 31st March
- Focus for April:
 - Data Service Requirements
 - Metering Service Requirements



MHHS Design- Design Artefact Status Update- Tranche 1

| | Comment Status | | | | | |
|---|----------------|--------|----------|------------------|-------|--|
| | | | | Requires Further | | |
| Design Artefacts | Accepted | Action | Rejected | Clarification | Total | |
| BP004- Data Collection | 36 | 13 | 4 | 1 | 54 | |
| BP005- Data Processing | 25 | 16 | 4 | | 45 | |
| BP006- New Connection | 16 | 16 | 2 | 2 | 36 | |
| BP007- Disconnection | 17 | 7 | 1 | 5 | 30 | |
| BP008- Change of Energisation Status | 30 | 7 | 7 | 2 | 46 | |
| BP009- Change of Meter | 26 | 10 | 5 | 4 | 45 | |
| BP010- Change of Registration Data | 13 | 11 | 3 | 3 | 30 | |
| BP018- Load Shaping Service | 16 | 6 | 3 | | 25 | |
| BRS007- Load Shaping Service | 22 | 9 | 2 | 1 | 34 | |
| METH005- LSS Process | 43 | 11 | 2 | 8 | 64 | |
| IF005- Metering Service MTD Updates to Registration | 31 | 18 | 4 | 2 | 55 | |
| IF006- Registration Service Notification of MTD Updates | 21 | 12 | 1 | | 34 | |
| IF007- Change of Energisation Status Outcome | 13 | 1 | 3 | 1 | 18 | |
| IF008- Registration Service Notification of Change of Energisation Status | 11 | 1 | | | 12 | |
| IF009- Registration Service Notification of Disconnection | 6 | 1 | | | 7 | |
| IF018- Notification of Registration Data Item Changes | 16 | 6 | | 1 | 23 | |
| IF021- UTC Settlement Period Consumption Data | 20 | 2 | 1 | | 23 | |
| IF022- LSS Period Data | 15 | 5 | | | 20 | |
| IF023- LSS Totals Data | 20 | 9 | 2 | | 31 | |
| IF026- Registration Service Notification of Supplier Data Chg | 10 | 6 | | | 16 | |
| IF024- Supplier Advisory Notifications | 8 | 9 | | | 17 | |
| IF025- Supplier Updates to Registration | 22 | 7 | | | 29 | |
| IF041- Cumulative Meter Reading | 9 | 4 | | | 13 | |
| Grand Total | 446 | 187 | 44 | 30 | 707 | |

| | No. | Total |
|-------------------------------------|---------------|----------|
| Constituency | Organisations | Comments |
| Other- IT Service Provider | 3 | 310 |
| Supplier Agent- Independent | 6 | 229 |
| Central Systems Provider- Elexon | 1 | 114 |
| Supplier- Large | 2 | 28 |
| Distributor- IDNO | 1 | 13 |
| Distributor- DNO | 1 | 7 |
| Other- Code Body | 1 | 6 |
| Central Systems Provider- Smart DCC | 0 | 0 |
| National Grid ESO | 0 | 0 |
| Supplier Agent | 0 | 0 |
| Supplier- Small | 0 | 0 |
| Supplier- Medium | 0 | 0 |
| Supplier- I&C | 0 | 0 |
| Total | 15 | 707 |

Comments Status:

Accepted – comments are agreed and documents have been updated to reflect the changes Rejected- comments have been reviewed and considered and the MHHS programme team have confirmed that changes will not be incorporated into the design.

Action - Further discussions at sub group level or future actions are required in order for the changes to be incorporated into the design.

Requires further clarification- Further information is required before a decision can be taken to accept the change into the design.

Commentary:

- Tranche 1 documents issued for second review from Monday 28th March to Friday 8th April
- The logical interface specifications have been published as supporting information for the Business Process Diagrams. Further review comments are requested in relation to the data items only. The physical file specifications will be issued for review at a later stage.
- In addition to the LSS documentation the LSS Business Process Steps have also been published as part of the Tranche 2 review for completeness.
- IF024- Supplier Notifications has been removed from this tranche pending further work and will be re-issued at a later stage.
- Activity to resolve comments in 'Action' and 'Requires Further Clarification' status is underway.



MHHS Design- Design Artefact Status Update- Tranche 2

| MHHSP-BP001 Change of Supplier MHHSP-BP002 Change of Service - Metering Service MHHSP-BP003 Change of Service - Data Service MHHSP-BP003 Change of Existing Service Appointment Details MHHSP-BP003 Change of Existing Service Appointment Details MHHSP-BP003 Demand Disconcection Events MHHSP-BP003 Market-wide Data Service (ECS) MHHSP-BP002 Volume Allocation Service (ECS) MHHSP-IF-001 Notification of Change of Supplier MHHSP-IF-302 Registration Service Response to Supplier Service Appointment MHHSP-IF-31 Supplier Service Appointment Request MHHSP-IF-32 Registration Service Response to Supplier Service Appointment MHHSP-IF-33 Registration Service Notification to Supplier of Service Appointment MHHSP-IF-34 Registration Service Notification of Service of Appointment & Supporting Info MHSP-IF-33 Registration Service Notification of Service of Appointment & Supporting Info MHSP-IF-33 Customer Direct Contract Advisory MHHSP-BR5003 Market-wide Data Service (ECS) MHHSP-BR5003 Market-wide Data Service (ECS) MHHSP-BR5003 Demand Disconnection Events <th>Document Type</th> <th>Reference</th> <th>Name / Description</th> | Document Type | Reference | Name / Description |
|--|------------------------------|---------------|---|
| MHHSP-BP003 Change of Service - Data Service | | MHHSP-BP001 | Change of Supplier |
| Business Process Diagram MHHSP-BP0038 Change of Existing Service Appointment Details MHHSP-BP013 Demand Disconection Events MHHSP-BP019 Market-wide Data Service (ECS) MHHSP-BP020 Volume Allocation Service (ECS) MHHSP-IF-001 Notification of Change of Supplier MHHSP-IF-002 Registration Update to Supplier (CDS Gain) MHHSP-IF-31 Supplier Service Appointment Request MHHSP-IF-32 Registration Service Response to Supplier Service App Request MHHSP-IF-33 Registration Service Request for Service Appointment MHHSP-IF-34 Service Provider Response to Appointment Request MHHSP-IF-35 Registration Service Notification to Supplier of Service Appointment MHHSP-IF-36 Registration Service Notification of Service of Appointment & Supporting Info MHHSP-IF-37 Registration Service Notification of Service De-Appointment MHHSP-IF-38 Customer Direct Contract Advisory MHHSP-BRS003 Market-wide Data Service (ECS) MHHSP-BRS003 Demand Disconnection Events MHHSP-BRS003 Demand Disconnection Events MHHSP-BRD003 Market-wide Data Service (ECS) MHHSP-BRD004 <td< td=""><td></td><td>MHHSP-BP002</td><td>Change of Service - Metering Service</td></td<> | | MHHSP-BP002 | Change of Service - Metering Service |
| MHHSP-BP013 Demand Disconection Events MHHSP-BP019 Market-wide Data Service (ECS) MHHSP-BP020 Volume Allocation Service (ECS) MHHSP-IF-001 Notification of Change of Supplier (COS Gain) MHHSP-IF-002 Registration Update to Supplier (COS Gain) MHHSP-IF-31 Supplier Service Appointment Request MHHSP-IF-32 Registration Service Response to Supplier Service App Request MHHSP-IF-33 Service Provider Response to Supplier Service Appointment MHHSP-IF-34 Service Provider Response to Appointment Request MHHSP-IF-35 Registration Service Notification to Supplier of Service Appointment MHHSP-IF-36 Registration Service Notification of Service of Appointment & Supporting Info MHHSP-IF-37 Registration Service Notification of Service De-Appointment & Supporting Info MHHSP-IF-38 Customer Direct Contract Advisory MHHSP-IF-39 Customer Direct Contract Advisory Response MHHSP-BRS003 Volume Allocation Service (ECS) MHHSP-BRS003 Demand Disconnection Events MHHSP-BRS003 Demand Disconnection Events MHHSP-BRS003 Demand Disconnection Events MHHSP-BRS003 Volume Allocation Service (ECS) MHHSP-BRS003 Volume Allocation Service (ECS) MHHSP-BRS004 Volume Allocation Service (ECS) MHHSP-BRS005 Volume Allocation Service (ECS) MHHSP-BRS006 Volume Allocation Service (ECS) MHHSP-BRS007 Volume Allocation Service (ECS) MHHSP-BRS008 Volume Allocation Service (ECS) MHHSP-BRS009 Volume Allocation Service (ECS) MHHSP-METH00 Volume Allocation Service (EC | | MHHSP-BP003 | Change of Service - Data Service |
| MHHSP-BP019 Market-wide Data Service (ECS) MHHSP-BP020 Volume Allocation Service (ECS) MHHSP-IF-001 Notification of Change of Supplier MHHSP-IF-002 Registration Update to Supplier (COS Gain) MHHSP-IF-31 Supplier Service Appointment Request MHHSP-IF-32 Registration Service Response to Supplier Service App Request MHHSP-IF-33 Registration Service Response to Appointment Request MHHSP-IF-34 Service Provider Response to Appointment Request MHHSP-IF-35 Registration Service Notification to Supplier of Service Appointment MHHSP-IF-36 Registration Service Notification of Service of Appointment & Supporting Info MHHSP-IF-37 Registration Service Notification of Service De-Appointment MHHSP-IF-38 Customer Direct Contract Advisory MHHSP-IF-39 Customer Direct Contract Advisory Response MHHSP-BRS003 Volume Allocation Service (ECS) MHHSP-BRS003 Demand Disconnection Events MHHSP-BPD03 Demand Disconnection Events MHHSP-BPD03 Market-wide Data Service (ECS) MHHSP-BPD04 Market-wide Data Service (ECS) MHHSP-METH00 Volume Allocation Service (ECS) | Business Process Diagram | MHHSP-BP003B | Change of Existing Service Appointment Details |
| MHHSP-BP020 Volume Allocation Service (ECS) | | MHHSP-BP013 | Demand Disconection Events |
| MHHSP-IF-001 Notification of Change of Supplier MHHSP-IF-002 Registration Update to Supplier (CDS Gain) MHHSP-IF-31 Supplier Service Appointment Request MHHSP-IF-32 Registration Service Response to Supplier Service App Request MHHSP-IF-33 Registration Service Request for Service Appointment MHHSP-IF-34 Service Provider Response to Appointment Request MHHSP-IF-35 Registration Service Notification to Supplier of Service Appointment MHHSP-IF-36 Registration Service Notification of Service of Appointment & Supporting Info MHHSP-IF-37 Registration Service Notification of Service De-Appointment MHHSP-IF-38 Customer Direct Contract Advisory MHHSP-IF-39 Customer Direct Contract Advisory Response MHHSP-BRS003 Market-wide Data Service (ECS) MHHSP-BRS003 Volume Allocation Service (ECS) MHHSP-BRS003 Demand Disconnection Events MHHSP-BRS004 Volume Allocation Service (ECS) MHHSP-BPD005 Volume Allocation Service (ECS) MHHSP-BPD006 Volume Allocation Service (ECS) MHHSP-BPD007 Volume Allocation Service (ECS) MHHSP-METH00 Volume Allocation Service (ECS) MHSP-METH00 Vo | | MHHSP-BP019 | Market-wide Data Service (ECS) |
| MHHSP-IF-002 Registration Update to Supplier (COS Gain) MHHSP-IF-31 Supplier Service Appointment Request MHHSP-IF-32 Registration Service Response to Supplier Service App Request MHHSP-IF-33 Registration Service Request for Service Appointment MHHSP-IF-34 Service Provider Response to Appointment Request MHHSP-IF-35 Registration Service Notification to Supplier of Service Appointment MHHSP-IF-36 Registration Service Notification of Service of Appointment & Supporting Info MHHSP-IF-37 Registration Service Notification of Service De-Appointment MHHSP-IF-38 Customer Direct Contract Advisory MHHSP-IF-39 Customer Direct Contract Advisory Response MHHSP-BRS008 Market-wide Data Service (ECS) MHHSP-BRS009 Volume Allocation Service (ECS) MHHSP-BRS010 Demand Disconnection Events MHHSP-BRD010 Market-wide Data Service (ECS) MHHSP-BRD010 Market-wide Data Service (ECS) MHHSP-BRD010 Market-wide Data Service (ECS) MHHSP-METH00 Volume Allocation Service (ECS) MHHSP-METH00 Volume Allocation Service (ECS) MHHSP-METH00 Market-wide Data Service (| | MHHSP-BP020 | Volume Allocation Service (ECS) |
| MHHSP-IF-31 Supplier Service Appointment Request MHHSP-IF-32 Registration Service Response to Supplier Service App Request MHHSP-IF-33 Registration Service Request for Service Appointment MHHSP-IF-34 Service Provider Response to Appointment Request MHHSP-IF-35 Registration Service Notification to Supplier of Service Appointment MHHSP-IF-36 Registration Service Notification of Service of Appointment & Supporting Info MHHSP-IF-37 Registration Service Notification of Service De-Appointment MHHSP-IF-38 Customer Direct Contract Advisory Response MHHSP-IF-39 Customer Direct Contract Advisory Response MHHSP-BRS008 Market-wide Data Service (ECS) MHHSP-BRS009 Volume Allocation Service (ECS) MHHSP-BRS013 Demand Disconnection Events MHHSP-BPD013 Demand Disconnection Events MHHSP-BPD019 Market-wide Data Service (ECS) MHHSP-BPD019 Market-wide Data Service (ECS) MHHSP-BPD019 Volume Allocation Service (ECS) MHHSP-BPD020 Volume Allocation Service (ECS) MHHSP-BPD020 Volume Allocation Service (ECS) MHHSP-METH00 SDS Validation & Estimation MHHSP-METH00 Volume Allocation Service (ECS) MHHSP-METH00 Volume Allocation Service (ECS) MHHSP-METH00 Market-wide Data Service (ECS) MHHSP-METH00 Market-wide Data Service (ECS) MHHSP-METH00 Volume Allocation Service (ECS) MHHSP-METH00 Market-wide Data Service (ECS) MHSP-METH00 Marke | | MHHSP-IF-001 | Notification of Change of Supplier |
| MHHSP-IF-32 Registration Service Response to Supplier Service App Request MHHSP-IF-33 Registration Service Request for Service Appointment MHHSP-IF-34 Service Provider Response to Appointment Request MHHSP-IF-35 Registration Service Notification to Supplier of Service Appointment MHHSP-IF-36 Registration Service Notification of Service of Appointment & Supporting Info MHSP-IF-37 Registration Service Notification of Service De-Appointment & Supporting Info MHSP-IF-38 Customer Direct Contract Advisory MHHSP-IF-39 Customer Direct Contract Advisory Response MHHSP-BRS008 Market-wide Data Service (ECS) MHSP-BRS009 Volume Allocation Service (ECS) MHHSP-BRS013 Demand Disconnection Events MHHSP-BRS013 Demand Disconnection Events MHHSP-BPD013 Demand Disconnection Events MHHSP-BPD014 Market-wide Data Service (ECS) MHHSP-BPD015 Volume Allocation Service (ECS) MHHSP-BPD016 Volume Allocation Service (ECS) MHHSP-BPD017 Volume Allocation Service (ECS) MHHSP-METH00 Volume Allocation Service (ECS) MHSP-METH00 Volume Allocation Service (ECS) MHSP-ME | | MHHSP-IF-002 | Registration Update to Supplier (COS Gain) |
| MHHSP-IF-33 Registration Service Request for Service Appointment | | MHHSP-IF-31 | Supplier Service Appointment Request |
| Interface Specification MHHSP-IF-34 Service Provider Response to Appointment Request MHHSP-IF-35 Registration Service Notification to Supplier of Service Appointment & MHSP-IF-36 Registration Service Notification of Service of Appointment & Supporting Info MHHSP-IF-37 Registration Service Notification of Service De-Appointment MHHSP-IF-38 Customer Direct Contract Advisory MHHSP-IF-39 Customer Direct Contract Advisory Response MHHSP-BRS008 Market-wide Data Service (ECS) MHHSP-BRS009 Volume Allocation Service (ECS) MHHSP-BRS013 Demand Disconnection Events MHHSP-BPD013 Demand Disconnection Events MHHSP-BPD019 Market-wide Data Service (ECS) MHHSP-BPD019 Volume Allocation Service (ECS) MHHSP-METH00 Volume Allocation Service (ECS) | | MHHSP-IF-32 | Registration Service Response to Supplier Service App Request |
| MHHSP-IF-35 Registration Service Notification to Supplier of Service Appointment MHHSP-IF-36 Registration Service Notification of Service of Appointment & Supporting Info MHHSP-IF-37 Registration Service Notification of Service De-Appointment MHHSP-IF-38 Customer Direct Contract Advisory MHHSP-IF-39 Customer Direct Contract Advisory Response MHHSP-BRS008 Market-wide Data Service (ECS) MHHSP-BRS009 Volume Allocation Service (ECS) MHHSP-BRS013 Demand Disconnection Events MHHSP-BPD013 Demand Disconnection Events MHHSP-BPD019 Market-wide Data Service (ECS) MHHSP-BPD020 Volume Allocation Service (ECS) MHHSP-METH00 SDS Validation & Estimation MHHSP-METH00 Volume Allocation Service (ECS) MHHSP-METH00 Market-wide Data Service (ECS) MHHSP-METH00 Market-wide Data Service (ECS) | | MHHSP-IF-33 | Registration Service Request for Service Appointment |
| MHHSP-IF-36 Registration Service Notification of Service of Appointment & Supporting Info MHHSP-IF-37 Registration Service Notification of Service De-Appointment MHHSP-IF-38 Customer Direct Contract Advisory MHHSP-IF-39 Customer Direct Contract Advisory Response MHHSP-BRS008 Market-wide Data Service (ECS) MHHSP-BRS009 Volume Allocation Service (ECS) MHHSP-BRS013 Demand Disconnection Events MHHSP-BPD013 Demand Disconnection Events MHHSP-BPD019 Market-wide Data Service (ECS) MHHSP-BPD020 Volume Allocation Service (ECS) MHHSP-BPD020 Volume Allocation Service (ECS) MHHSP-METH00 SDS Validation & Estimation MHHSP-METH00 Volume Allocation Service (ECS) MHHSP-METH00 Market-wide Data Service (ECS) MHHSP-METH00 Market-wide Data Service (ECS) | Interface Specification | MHHSP-IF-34 | Service Provider Response to Appointment Request |
| MHHSP-IF-37 Registration Service Notification of Service De-Appointment MHHSP-IF-38 Customer Direct Contract Advisory MHHSP-IF-39 Customer Direct Contract Advisory Response MHHSP-BRS008 Market-wide Data Service (ECS) MHHSP-BRS009 Volume Allocation Service (ECS) MHHSP-BRS013 Demand Disconnection Events MHHSP-BPD013 Demand Disconnection Events MHHSP-BPD019 Market-wide Data Service (ECS) MHHSP-BPD020 Volume Allocation Service (ECS) MHHSP-METH00 SDS Validation & Estimation MHHSP-METH00 Volume Allocation Service (ECS) MHHSP-METH00 Market-wide Data Service (ECS) MHHSP-METH00 Market-wide Data Service (ECS) | | MHHSP-IF-35 | Registration Service Notification to Supplier of Service Appointment |
| MHHSP-IF-38 Customer Direct Contract Advisory MHHSP-IF-39 Customer Direct Contract Advisory Response MHHSP-BRS008 Market-wide Data Service (ECS) MHHSP-BRS009 Volume Allocation Service (ECS) MHHSP-BRS013 Demand Disconnection Events MHHSP-BPD013 Demand Disconnection Events MHHSP-BPD019 Market-wide Data Service (ECS) MHHSP-BPD020 Volume Allocation Service (ECS) MHHSP-METH00 SDS Validation & Estimation MHHSP-METH00 Volume Allocation Service (ECS) MHHSP-METH00 Market-wide Data Service (ECS) MHHSP-METH00 Market-wide Data Service (ECS) | | MHHSP-IF-36 | Registration Service Notification of Service of Appointment & Supporting Info |
| MHHSP-IF-39 Customer Direct Contract Advisory Response Business Requirements MHHSP-BRS008 Market-wide Data Service (ECS) MHHSP-BRS009 Volume Allocation Service (ECS) MHHSP-BRS013 Demand Disconnection Events Business Process Description MHHSP-BPD013 Demand Disconnection Events MHHSP-BPD019 Market-wide Data Service (ECS) MHHSP-BPD020 Volume Allocation Service (ECS) MHHSP-METH00 Volume Allocation Service (ECS) MHHSP-METH00 Volume Allocation Service (ECS) MHHSP-METH00 Market-wide Data Service (ECS) | | MHHSP-IF-37 | Registration Service Notification of Service De-Appointment |
| Business Requirements MHHSP-BRS008 Market-wide Data Service (ECS) MHHSP-BRS003 Volume Allocation Service (ECS) MHHSP-BRS013 Demand Disconnection Events Business Process Description MHHSP-BPD013 Demand Disconnection Events MHHSP-BPD019 Market-wide Data Service (ECS) MHHSP-BPD020 Volume Allocation Service (ECS) MHHSP-METH00 SDS Validation & Estimation MHHSP-METH00 Volume Allocation Service (ECS) MHHSP-METH00 Market-wide Data Service (ECS) | | MHHSP-IF-38 | Customer Direct Contract Advisory |
| Business Requirements MHHSP-BRS009 Volume Allocation Service (ECS) MHHSP-BRS013 Demand Disconnection Events Business Process Description MHHSP-BPD013 Demand Disconnection Events MHHSP-BPD019 Market-wide Data Service (ECS) MHHSP-BPD020 Volume Allocation Service (ECS) MHHSP-METH00 SDS Validation & Estimation MHHSP-METH00 Volume Allocation Service (ECS) MHHSP-METH00 Market-wide Data Service (ECS) | | MHHSP-IF-39 | Customer Direct Contract Advisory Response |
| MHHSP-BRS013 Demand Disconnection Events Business Process Description MHHSP-BPD013 Demand Disconnection Events MHHSP-BPD019 Market-wide Data Service (ECS) MHHSP-BPD020 Volume Allocation Service (ECS) MHHSP-METH00 SDS Validation & Estimation MHHSP-METH00 Volume Allocation Service (ECS) MHHSP-METH00 Market-wide Data Service (ECS) | | MHHSP-BRS008 | Market-wide Data Service (ECS) |
| MHHSP-BPD013 Demand Disconnection Events | Business Requirements | MHHSP-BRS009 | Volume Allocation Service (ECS) |
| Business Process Description MHHSP-BPD019 Market-wide Data Service (ECS) MHHSP-BPD020 Volume Allocation Service (ECS) MHHSP-METH00 SDS Validation & Estimation MHHSP-METH00 Volume Allocation Service (ECS) MHHSP-METH00 Market-wide Data Service (ECS) | | MHHSP-BRS013 | Demand Disconnection Events |
| MHHSP-BPD020 Volume Allocation Service (ECS) MHHSP-METH00 SDS Validation & Estimation Method Statement MHHSP-METH00 Volume Allocation Service (ECS) MHHSP-METH00 Market-wide Data Service (ECS) | | MHHSP-BPD013 | Demand Disconnection Events |
| MHHSP-METH00 SDS Validation & Estimation MHHSP-METH00 Volume Allocation Service (ECS) MHHSP-METH00 Market-wide Data Service (ECS) | Business Process Description | MHHSP-BPD019 | Market-wide Data Service (ECS) |
| Method Statement MHHSP-METH00 Volume Allocation Service (ECS) MHHSP-METH00 Market-wide Data Service (ECS) | | MHHSP-BPD020 | Volume Allocation Service (ECS) |
| Method Statement MHHSP-METH00 Market-wide Data Service (ECS) | | MHHSP-METH00 | SDS Validation & Estimation |
| MHHSP-METH00 Market-wide Data Service (ECS) | Method Statement | MHHSP-METH00 | Volume Allocation Service (ECS) |
| MHHSP-METH00 Demand Disconnection Events | Internou oracement | MHHSP-METH00 | Market-wide Data Service (ECS) |
| | | MHHSP-METH00: | Demand Disconnection Events |

NOTE: The above is a snapshot and is subject to change- please refer to the Design Artefact Tracker on the Portal for the live view of the artefacts assigned to each tranche.

Commentary:

- Tranche 2 Design Artefacts are currently under review with the Sub-Working Groups and are on target to be issued to BPRWG for review on Monday 4th April.
- The first review cycle will be for 2 weeks with the closing date for comments on Friday 15th April
- Design Artefacts will be published on the MHHS Portal with a Status of 'Under Review' and Action With 'BPRWG' and also publically available on the MHHS Website
- Comments Logs for the design artefacts will be available on the Portal here, alternatively a Comment Form is available on the MHHS website and can be emailed directly to Design@mhhsprogramme.co.uk
- The full <u>Design Artefact Tracker</u> has now been published on the MHHS Portal. This is a live document which will be maintained to reflect the current status of all artefacts.

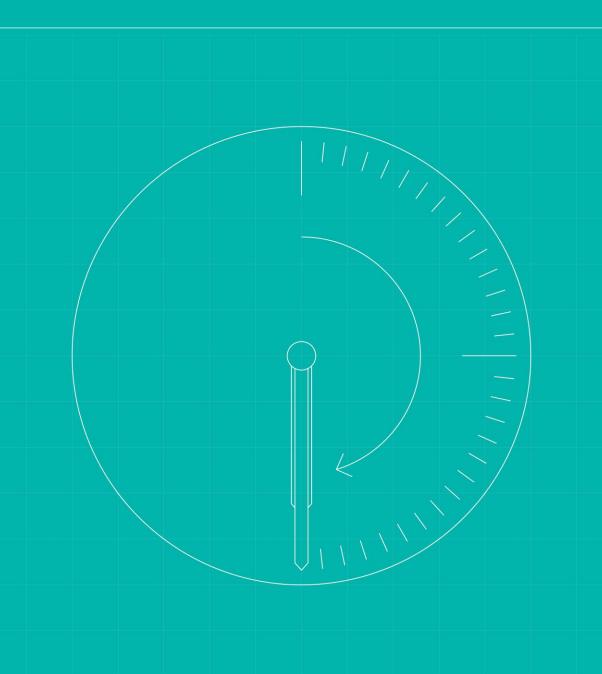


Post Baseline Design Repository Tooling

INFORMATION: Provide information on arrangements for enduring management of design artefacts following completion of design activities

Programme – Simon Harrison





Key to a design-led approach. Is intended to provide the industry and the programme with a common view of the design and to provide an enduring toolset to manage the services from baseline through to post-programme



Model Driven Repository

- To capture all the design artefacts into one source of truth
- Model driven rather than document-based approach supporting a wide range of views for different users
- Supports model enrichment



Quality

- Build a common language, and standard notation within a shared model
- Reduce repetition and different definitions as all models share the same objects and descriptions
- Provide traceability and links all models and artefacts to provide a robust design



Collaboration

- Multiple users able to contribute
- Works without need for industry participants to have specialist tools, as it based on Microsoft365
- Integrate with programme management and team tools



Change & Grow

- Manage change in one place and reflected across all models
- Design model will expand and develop being added to and more detail provided as the programme progresses
- Monitor progress and no of objects



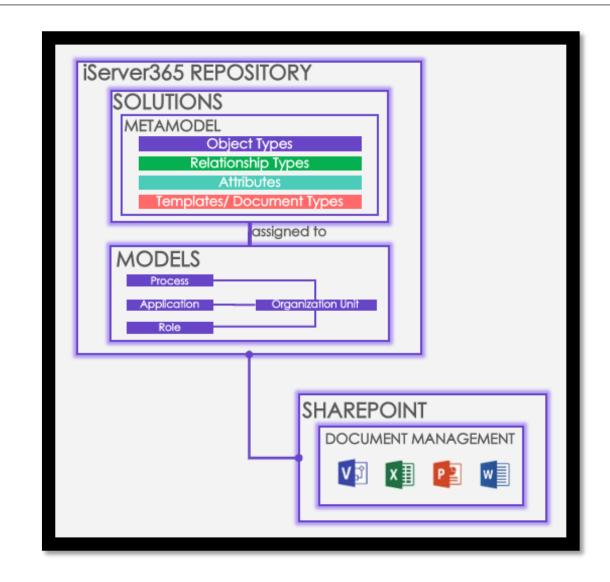
Using iServer365 product from Orbus

- Built for Office 365, works directly with Visio, Excel, Word and SharePoint
- SaaS and browser based no technical requirements for users (secured through SSO for MHHS Portal users), viewer licensing is inexpensive and scalable
- SharePoint approach allows for design content to be presented in relevant contexts with supporting materials and feedback workflows

Supports integration with Azure DevOps, which will be used by the programme for requirements and test management

This will allow traceability through from models in the repository through to test results

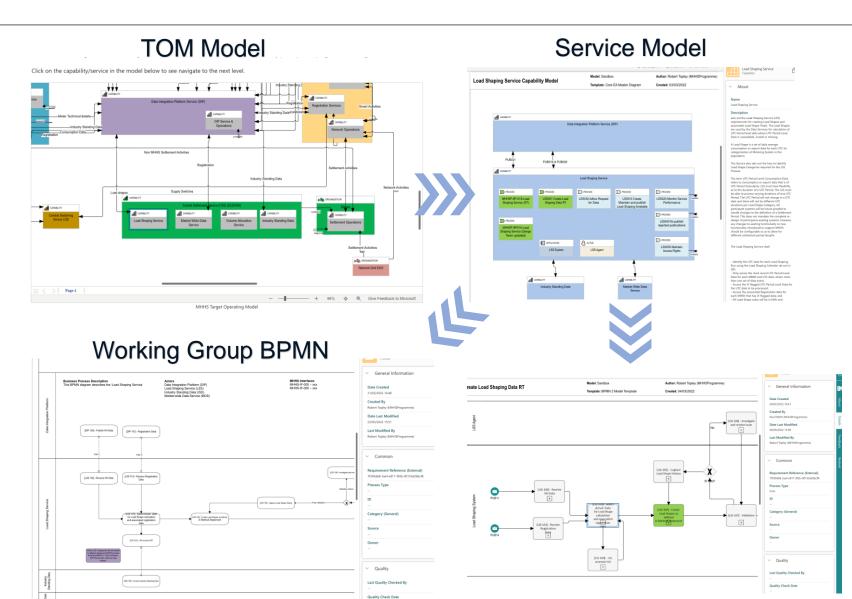
It will also support post baseline change control to provide informed impact assessment and audit





Progress

- We have a working model of the Load Shaping Service, Logical Interfaces, Data Model and the SharePoint front end for participants
- Modelling being done by the LDP Design Assurance team as part of our assurance activity – taking the documents from the working groups and creating models and requirements in Azure DevOps (and highlighting gaps or inconsistencies with notation or language conventions)
- Working in a pre-production model, will promote to fully change-controlled version at M5 design baseline
- Pulling together a user guide on how to navigate the content and provide feedback

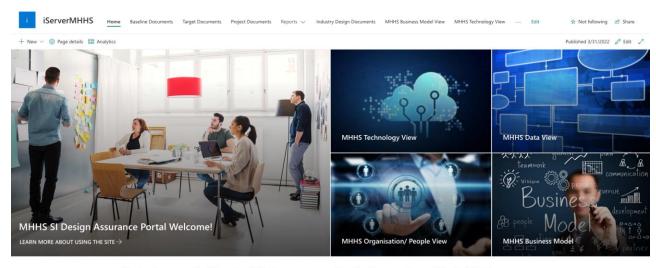






Roll Out

- Currently completing the first fit of the SharePoint front end, and loading the business process diagrams and interface content from tranche 1
- Sessions this week with SRO colleagues to bring them up to speed
- Seeking volunteers to be initial reviewers looking for 5 to 10 participants to be the first members of our iServer user group to provide feedback on the tool and any additional requirements or challenges
 - Ideally a mix of technical and non-technical users from across constituencies
 - Join a monthly hour-long meeting
 - Specific to the tool, rather than the substance/content of the design itself
- Proposing roll out to all MHHS portal users by end of April
- Simon and Paul Pettitt will be present at the MHHS open day on 21 April to provide any interested participants with a hands-on show and tell



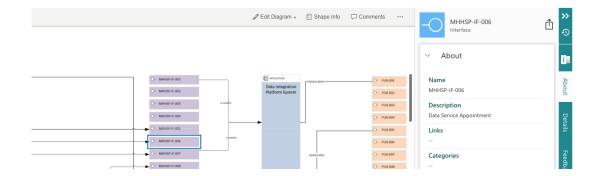
Design Assurance Dashboard and Metrics

PowerBI, performance and progress KPIs to be included here



Paul Pettitt (MHHSProgramme)

The Data view gives you a look at the overall data model, and information on the different data entities. You can drill down using this view to understand details and where data used/employed in applications, interfaces or services.



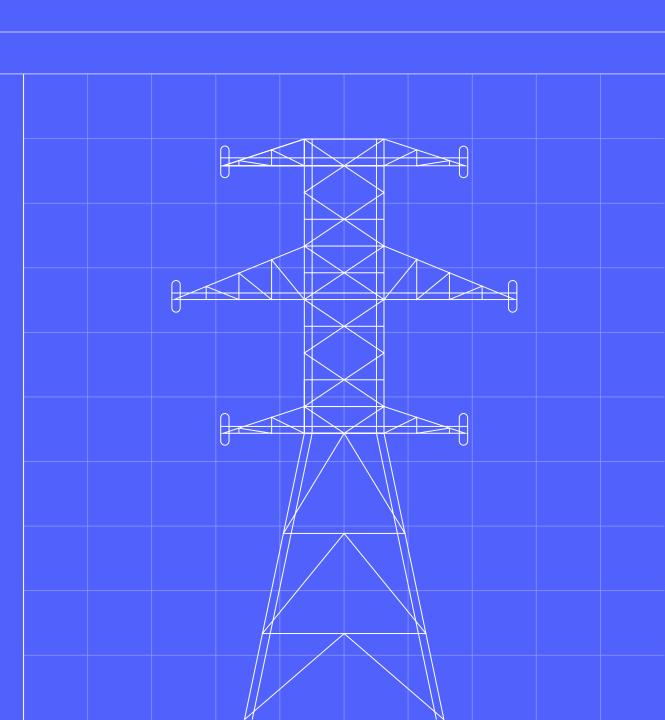


Summary and Actions

INFORMATION: Summarise actions and plan agenda for next meeting

Chair & Secretariat





DAG Forward Look

DAG Agenda Roadmap:

| 13-Apr | 27-Apr | 04-May** | 11-May | 25-May** | 08-Jun** | 22-Jun** | 13-Jul** |
|---|---|---|---|---|---|---|---|
| | M5 (note CR001/002) | | | | M5 (CR001) | | |
| *Design Principles *Design Decisions *Level playing field principle updates (SECMP162) *Post baseline design repository tooling | *Design Principles *Design Decisions *Design artefact review (TBC) *Post baseline design repository tooling (TBC) | Tranche 1 approval (TBC) | *Design Principles *Design Decisions *Design artefact review (TBC) *Post baseline design repository tooling (TBC) | *Design Principles *Design Decisions *Post baseline design repository tooling (TBC) | *Design Principles *Design Decisions *Post baseline design repository tooling (TBC) | *Design Principles *Design Decisions *Post baseline design repository tooling (TBC) | Tranche 4 approval (TBC) *Advisory Group Report (TBC) *Residual Matters *Enduring Artefact Management *Provision for Re-Openers |
| *Minutes & actions *L2-3 governance group updates *L4 working group report | *Minutes & actions *L2-3 governance group updates *L4 working group report *Level Playing Field Principle | *Minutes & actions *L2-3 governance group updates *L4 working group report *Level Playing Field Principle | *Minutes & actions *L2-3 governance group updates *L4 working group report *Level Playing Field Principle | *Minutes & actions *L2-3 governance group updates *L4 working group report *Level Playing Field Principle | *Minutes & actions *L2-3 governance group updates *L4 working group report *Level Playing Field Principle | *Minutes & actions *L2-3 governance group updates *L4 working group report *Level Playing Field Principle | *Minutes & actions *L2-3 governance group updates *L4 working group report *Level Playing Field Principle |

^{**}meeting dates to be confirmed

Reminder: Working Group Schedule

Level 4 Working Groups

| BPRWG | 1st Wednesday of every month | 1000-1200 | Monthly |
|-------|------------------------------|------------|---------|
| SDWG* | 1st Wednesday of every month | 1400-1530 | Monthly |
| TDWG* | 1st Thursday of every month | 1400-16:00 | Monthly |

^{*}SDWG and TDWG form part of sub-groups on a monthly rotation

Sub-working Groups

| | Tuesday (Registration) | 1000-1300 | Weekly |
|------------------|---|-----------|-------------|
| BPRWG Sub-groups | Thursday (Smart or Advanced or Unmetered) | 1000-1300 | Weekly |
| | Friday (Elexon Central Systems) | 1000-1300 | Weekly |
| TDWG Sub-Group | Thursday | 1400-1600 | Weekly |
| SDWG Sub-Group | Wednesday | 1400-1530 | Fortnightly |



Next Steps

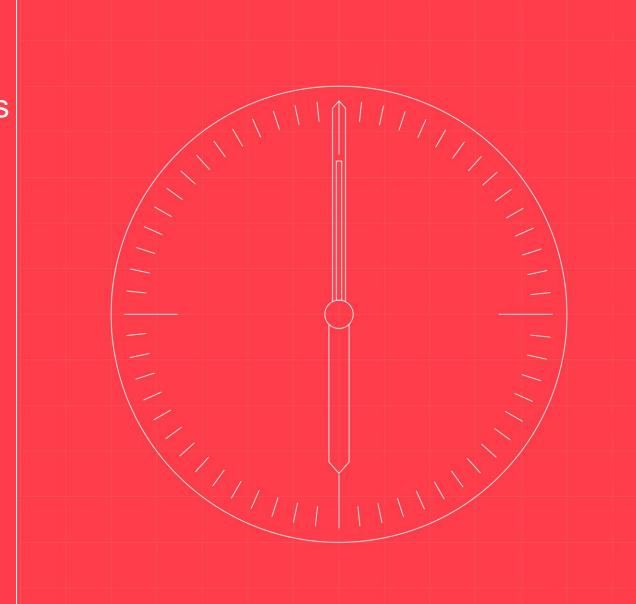
- Confirm actions from meeting (Secretariat)
- Date of next DAG: 27 April 2022 13:00

If you would like to propose an agenda item for the DAG or would like any information about DAG working groups and subgroups, please contact the Programme PMO (PMO@mhhsprogramme.co.uk)



Appendices

Appendix 1 - DIP Procurement Documents





Appendix 1 – DIP Procurement Pack Documents

23/03/2022

Chair to update DAG on the outcome of ACTION DAG07-05 relating to documents within the DIP procurement pack

Programme (DAG Chair)

13/04/2022

RECOMMEND CLOSED - List of documents requiring review by DAG provided in Appendix 1 of meeting papers.

Update:

- Table of procurement documents provided
- DAG will be asked to approve final versions of all technical documents (save MHHS Test Strategy)
- Estimated timeframe for submission to DAG is May
- Security Documents (information security, DPIA, quality management policies) to be issued later during procurement and DAG will be asked to approve final versions

| Document | To be issued with RFP | Technical / RFP- specific |
|--|--------------------------|------------------------------|
| RFP Cover Sheet & Letter of Invitation | Yes | RFP |
| RFP Instructions to Bidders | Yes | RFP |
| RFP Specification | Yes | RFP |
| DIP Functional Specification | Yes | Technical |
| DIP Non-Functional Requirements | Yes | Technical |
| DIP E2E Security Requirements | Yes | Technical |
| RFP Selection Questionnaire | Yes | RFP |
| RFP Form of Technical Proposal (Response Format) | Yes | RFP |
| RFP Form of Case Study & Form of Key Personnel Bios Templates | Yes | RFP |
| RFP Form of Commercial Proposal (Pricing Format) | Yes | RFP |
| RFP Draft form of Contract | Yes | RFP |
| RFP Bidder Submission Checklist | Yes | RFP |
| RFP Bidders Clarification Log Template | Yes | RFP |
| Draft MHHS Test Strategy | Yes, for reference | Technical |
| Design Infosec Code of Connections Guidance | No, later | Technical |
| Design Data Privacy Impact Assessment | No, later | Technical |
| Design Service Management Policies (ISO 27001 etc) | No, later | Technical |

