

MHHS Webinar: DIP Simulator Demo

Introduction

Helen Richardson 5 minutes

MHHS Test Stubs & DIP Simulator Demo

Rebecca Farooq & Georgi Rabotov 20 minutes

2023 Timeline

Rebecca Farooq 5 minutes

Q&A

Facilitated by Pete Edwarde
15 minutes













Please ask questions throughout the webinar. You can join at Slido.com #MHHS

? Why are we holding this webinar?

- Bring to life the scope of the test tools "stubs" we are planning to provide and introduce you to the team
- Showcase current progress along with our future delivery plans
- Provide early visibility of the Data Integration Platform (DIP) simulator tool and our plans for data generators

What are Simulator, Data Generator & Emulator tools?

- Simulators: replace a 'missing' system in integration and replicate the behaviour of that missing system
- Data generators: produce quantities of realistic data, to aid testing
- Emulators: replicate functions of a target system, enabling automated checks of correctness in systems under test

What is the programme rationale for providing test tools?

- Driving efficiency
- Introducing and promoting early standardisation
- De-risk entry into testing cycles





What do we need from Programme participants?

Collaboration

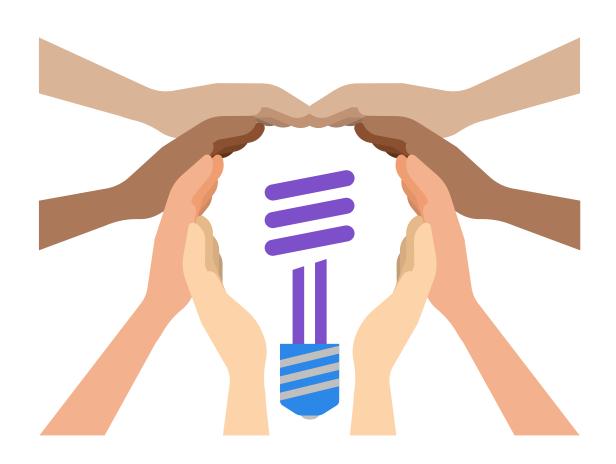
 Get involved - meet the team and find out what we are delivering.

Sharing ideas

 We welcome your ideas for new features that might make everyone's life easier!

Feedback

- We need to know if the tools are not going to meet your requirements
- All feedback can help inform options to iterate our tooling



Clarifications

 It's important we interpret the design in the same way, so please reach out to ask for clarifications, or to understand our development process further

Challenge

 If you think we could improve the ordering or priorities, please let us know!

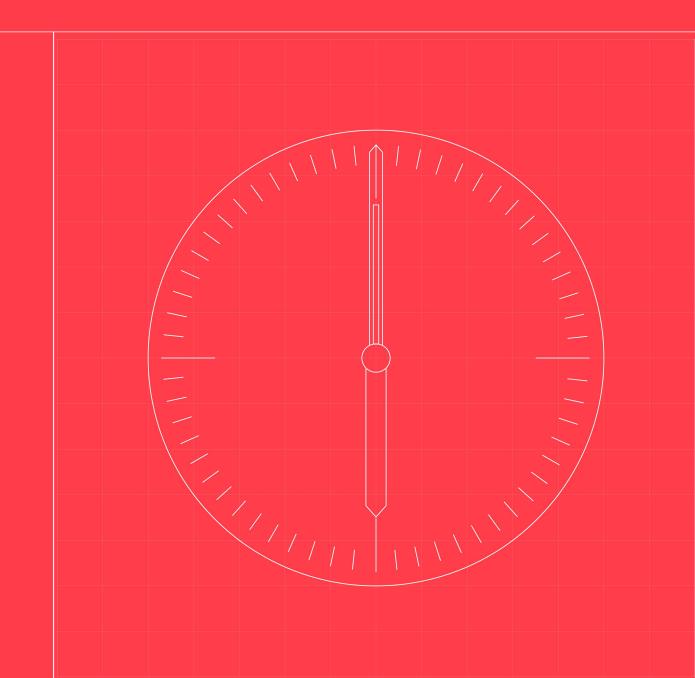
Ask for support

- Ask for help if you are unsure or blocked.
- The more users, the better; we will always try to unblock you where possible



MHHS Test stubs and DIP Simulator Demo

Rebecca Farooq & Georgi Rabatov





Test Stubs for Pre-Integration Testing (PIT)



Data Integration Platform (DIP) Simulator

- For participants running tests independently on their own infrastructure
- Accessible to all participants
- Simulates DIP behaviour consumes and publishes information in the same manner as the DIP (carrying out Level 1 and Level 2 validation but without all DIP functionality)
- Accompanied by a library of correct interface messages



Consumption Data Generator

- For participants running tests independently on their own infrastructure
- Generates realistic test consumption data suitable for consumption by Smart Data Services (SDS), Advanced Data Service (ADS) & Elexon Central Systems (ECS) which the participants can use in conjunction with their own existing simulators

Automated Test Result Generators (Emulators)



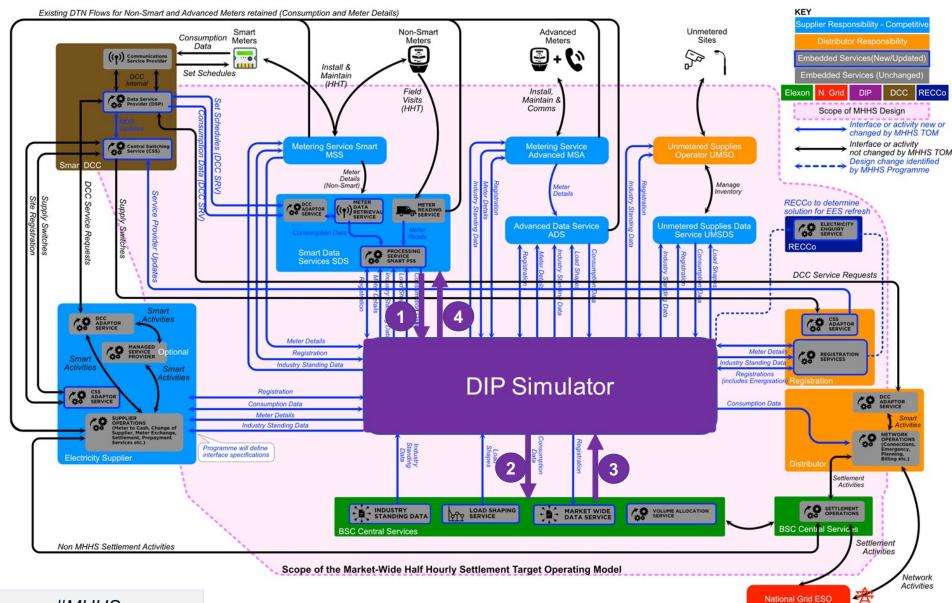
Prepared for System Integration Testing (SIT) / User Integration Testing (UIT)

- **SDS Emulator** takes as input the test data which enters SDS and produces the result expected from SDS; then compares the actual SDS result with the result the emulator has calculated itself and reports on test success or failure
- ADS Emulator as with SDS, but for ADS

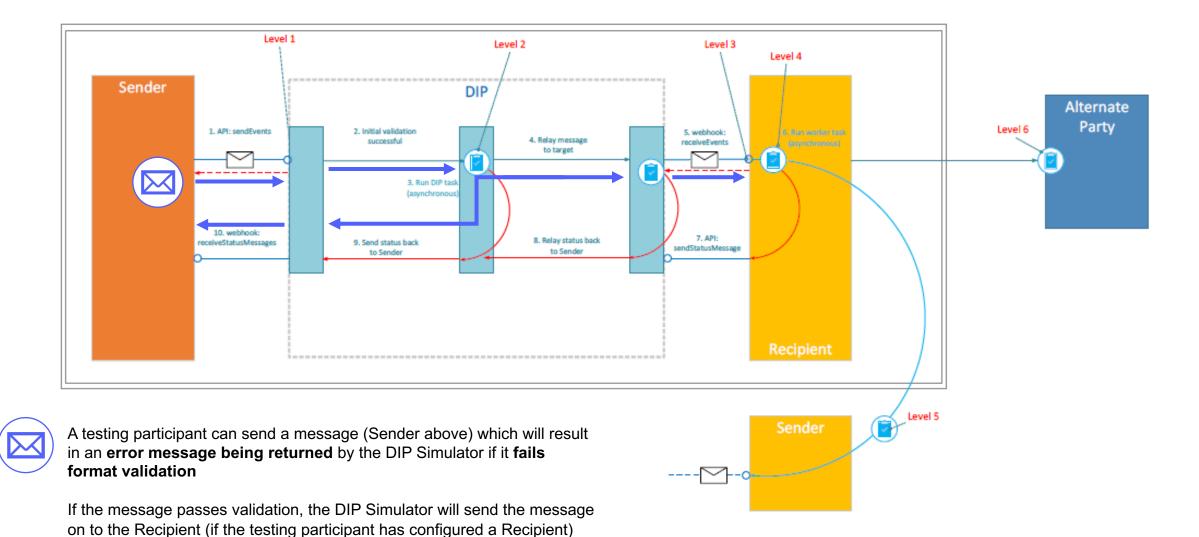


DIP Simulator interactions

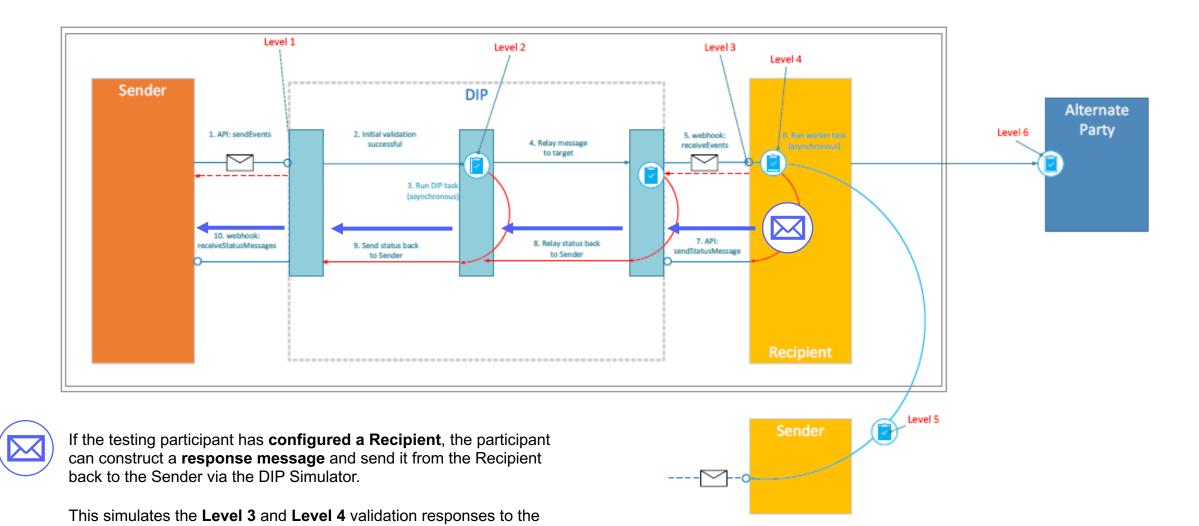
- Simulator receives a message on an Interface
- Pushes that message out to the relevant receiver as a Publication
- 3 Allows the receiver to submit a Status response
- Response then returned to the original sender



DIP Simulator Flow represented using diagrams from MHHSP-E2E001 - End-to-End Solution Architecture (slide 1 of 2)









original message

Webinar

2022-11-28 13:14 UTC

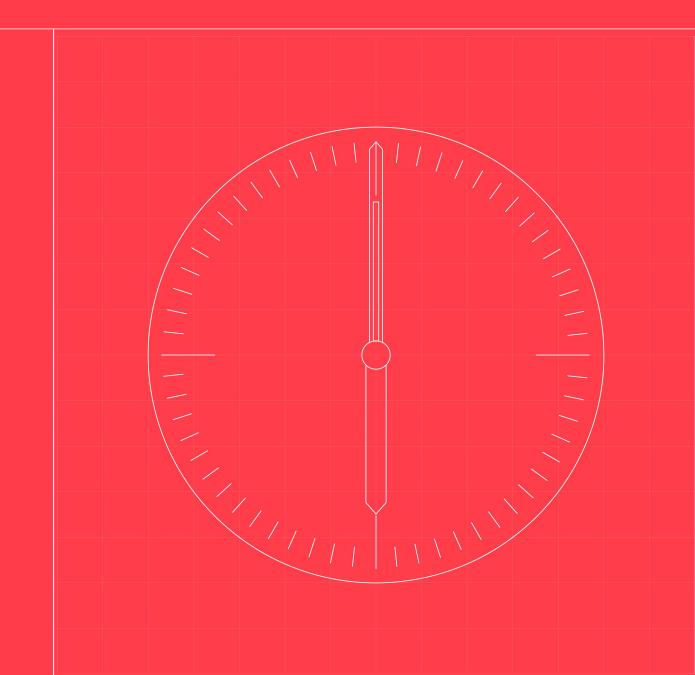
Recorded to

Georgi Rabotov (MHHSProgramme) Organized by

Georgi Rabotov (MHHSProgramme) To view the DIP simulator demo on this slide, please watch the overall webinar recording, which can be found on the MHHS website.

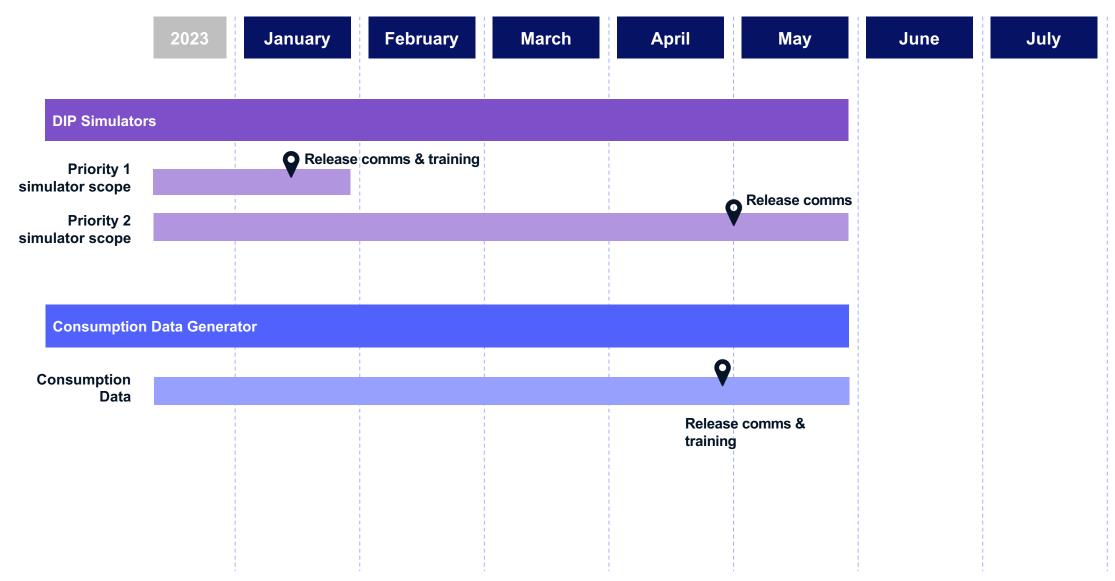
2023 Timeline

Rebecca Farooq





2023 Timeline







Any questions? Please join at Slido.com #MHHS

MHHS Programme Communications & Support

PPC Bilaterals

- The PPC Team is available for monthly bilateral sessions with all Programme Participants
- The sessions are used to enable a two-way conversation between the participants and the Programme
- Contact <u>PPC@mhhsprogramme.co.uk</u> to schedule

Design Work-off Plan

- On 31 October, the Design Advisory Group (DAG) approved the Physical Design Baseline
- This approval is subject to the Programme delivering the **Design Work-Off Plan**. Sub-working group sessions are held twice a week to discuss these Work-Off Plan items
- If you would like to join these discussions, please contact PMO@mhhsprogramme.co.uk to sign up

SITWG launch

- Today is the kick-off for the Systems Integration Testing Working Group (SITWG) at 14:00.
- This is a Level 4 working group and reports in to the Testing and Migration Working Group (TMAG).
- To sign up please contact the PMO team PMO@mhhsprogramme.co.uk

The Collaboration Base

- The Collaboration Base is the master source of Programme information, allowing you to access and engage with Design, Testing and Code Change documentation
- This includes the schedule and outputs of all Programme events, including Governance meetings, Webinars, Open Days & Playback sessions
- The dPMO tool provides Participants with a set of interactive and user-friendly dashboarding that display core Programme information

Newsletters

- The Clock is the Programme's weekly newsletter, and the Design newsletter is fortnightly
- They provide you with updates and key information to support delivery of the Programme
- They signposts events, plans, reporting, and documents to assist in planning, design, development, testing and delivery



DIP Simulator – Interfaces Supported (Release 1, January 2023)

Interface	Name	Notes
MHHSP-IF-009	Notification of LDSO Disconnection / CSS De-Registration	Registration
MHHSP-IF-013	MDS Exceptions Applied	Consumption
MHHSP-IF-014	Rejected Consumption Data Submission	Consumption
MHHSP-IF-018	Notification of Registration Data Item Changes	Registration
MHHSP-IF-021	UTC Settlement Period Consumption Data	Consumption
MHHSP-IF-022	LSS Period Data	LSS
MHHSP-IF-023	LSS Totals Data	LSS
MHHSP-IF-024	Supplier to Advisory Notification to DS	Consumption
MHHSP-IF-026	Registration Service Notification of Supplier Data Chg	Registration
MHHSP-IF-036	Registration Service Notification of Service Appointment & Supporting Info	Registration
MHHSP-IF-040	Notification of Annual Consumption	Consumption
MHHSP-IF-041	Cumulative Meter Reading	Consumption
MHHSP-IF-043	Registration Service Notification of Change of Connection Type	Registration
MHHSP-IF-044	Registration Service Notification of Change of Segment	Registration
MHHSP-IF-047	Notification of the Publication of a Downloadable Asset	ISD

Please note, these have been developed to Interface Catalogue v4.0 and Swagger v0.2

