

DIP Swagger Version Control – Guidance Notes

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V1.0.0

Document owner
DIP Manager

Classification
Public

Summary

This document provides guidance to DIP Users about version control of the Open API definition for the DIP

Introduction

An Open API (or “Swagger”) specification, called “SubmitEvents”, is used to describe and document the REST-compliant endpoints to send and manage data between participants using the DIP. The latest published version of the DIP SubmitEvents API specification is hosted at <https://app.swaggerhub.com/apis/MHHSPPROGRAMME/SubmitEvents/>.¹

The specification defines the API endpoint that DIP Users use to *send* arrays of interface messages to the DIP and *receive* interface messages from the DIP to webhooks that are registered via another HTTP POST endpoint. Additionally, the DIP SubmitEvents API specification defines endpoints to replay or requeue interface messages, and to send and register webhooks for status messages. For each endpoint, the DIP SubmitEvents API specification defines the URL parameters (including header information), and the request body structure.

Interface message *types* are referred to as *interface channels* or *message channels*.

All interface messages are in JSON format, and have a standard high-level structure, contained within a “payload” object:

- A “CommonBlock” object, containing metadata fields used by DIP to manage the message.
- A “CustomBlock” object, containing data specific to the interface message type.

Within the CommonBlock are a series of standard objects containing defined key-value pairs; the mandatory “S0” object contains a “schemaVersion” key, where the corresponding value defines the schema version against which the interface message has been constructed.

¹ This is a tactical hosting that has been inherited from the MMHS programme – a strategic hosting solution is being developed

```

[
  {
    "payload": {
      "CommonBlock": {
        "S0": {
          "InterfaceID": "<InterfaceID>",
          "schemaVersion": "<schemaVersion>",
          "eventCode": "<eventCode>"
        },
        "S1": {
          "environmentTag": "<environmentTag>",
          "subText": "<subText>",
          "senderUniqueReference": "<senderUniqueReference>",
          "senderTimestamp": "<senderTimestamp>",
          "senderDIPID": "<senderDIPID>",
          "senderRoleID": "<senderRoleID>",
          "senderCorrelationID": "<senderCorrelationID>",
          "DIPConnectionProviderID": "<DIPConnectionProviderID>"
        },
        // Other optional CommonBlock objects
      },
      "CustomBlock": {
        // Objects specific to the interface message type
      }
    },
    // Further interface message payloads
  }
]

```

The set of supported interface messages are further defined in the Energy Market Data Specification (EMDS)², including data elements, event codes, and routing rules.

² At the time of writing, the current version of the EMDS can be found at https://recportal.co.uk/rec-wiki-mhhs/-/knowledge_base/market-wide-half-hourly-settlement/rec-release-for-mhhs-milestone-8, and viewed at <https://digital-navigator.azurewebsites.net/search/market-messages>

Version Control

1. DIP SubmitEvents API Versions

The DIP SubmitEvents API specification version number is in the format *A.B.C*:

Component	Role	Purpose
A	Major version	Architectural shift in how messages are structured or routed, or a breaking change in how interface messages work across all message channels.
B	Minor version	<p>During the design phase of the MMHS programme the minor version number aligned with MHHS Interim Release (IR) numbers. For example,</p> <p>Version 1.2 aligned to MHHS Interim Release IR2 Version 1.5 aligned to MHHS Interim Release IR5 Version 1.5.1 aligned to MHHS Interim Release IR5.1 Version 1.8.3 aligned to MHHS Interim Release IR8.3</p> <p>This alignment ceased after MHHS Milestone 8 (M8), as there are no longer formal MHHS Interim Releases.</p> <p>Future minor version increments will be governed by the DIP Manager, who will determine whether a new minor release is required based on material changes to the DIP SubmitEvents API specification (such as new event types, schema updates, or interface behaviour).</p>
C	Patch version	<p>Small fixes, interface-specific changes, additions of validation endpoints, or documentation clarifications.</p> <p>N.B., patch version updates must not take the DIP SubmitEvents API specification out of alignment with the DIP Messages (data items and API schemas) recorded in the Energy Market Data Specification (EMDS).</p>

The DIP SubmitEvents API specification version and Energy Market Data Specification (EMDS) version includes a number of [Design Issue Notification \(DIN\) Log](#) references (for changes up to MHHS Milestone 8) and DIP CR references (for changes post- MHHS Milestone 8), and referenced in accompanying release notes.

MHHS Interim Releases and the corresponding version numbers of the DIP SubmitEvents API specification and the MHHS Interface Catalogue can be found in the release notes of each MHHS Interim Release of the Red-lined Design Artefacts: <https://www.mhhsprogramme.co.uk/design/red-lined-design-artefacts>.

As of MHHS Design IR8.11, the following version numbers applied:

Interim Release	Design Interim Release Published	DES138 Version	Swagger Version	SIT Effective from Date	DIP Simulator Uplifted
IR2	05-Jul-23	5.2.1	1.2	30-Oct-23	11-Aug-23
IR2.1	11-Oct-23	5.2.2	1.2.1	30-Oct-23	20-Oct-23
IR2.2	08-Nov-23	5.2.2	1.2.2	08-Nov-23	08-Nov-23
IR2.3	29-Nov-23	5.2.2	1.2.3	20-Dec-23	15-Dec-23
IR3	02-Aug-23	5.3.2	1.3	11-Mar-24	03-Nov-23
IR4	30-Aug-23	5.4.1	1.4	11-Mar-24	03-Nov-23
IR5	04-Oct-23	5.5.2	1.5	11-Mar-24	03-Nov-23
IR5.1	17-Oct-23	5.5.3	1.5.1	11-Mar-24	03-Nov-23
IR5.2	14-Dec-23	5.5.4	1.5.2	11-Mar-24	05-Jan-24
IR5.3	17-Jan-24	5.5.4	1.5.3	11-Mar-24	26-Jan-24
IR5.4	07-Feb-24	5.5.5	1.5.4	SIT start date for participant	09-Feb-24
IR5.5	03-Apr-24	5.5.6	1.5.5	To be advised by SIT Release Manager	19-Apr-24
IR6	01-Nov-23	5.6.1	1.6	10-Jun-24	22-Mar-24
IR7	31-Jan-24	5.7.1	1.7	10-Jun-24	22-Mar-24
IR7.1	06-Mar-24	5.7.2	1.7.1	10-Jun-24	22-Mar-24
IR7.2	03-Apr-24	5.7.3	1.7.2	10-Jun-24	TBC
IR8	03-Apr-24	5.8.1	1.8	02-Sep-24	21-Jun-24
IR8.1	12-Jun-24	5.8.2	1.8.1	02-Sep-2024	NA
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IR8.2	21-Aug-24	5.8.3	1.8.2	21-Oct-24	NA
IR8.3	18-Sept-24	5.8.4	1.8.3	21-Oct-24	NA
IR8.4	16-Oct-24	5.8.4	1.8.3	Expected End Nov Confirmation to follow	NA
IR 8.5	06-Nov-24	5.8.5	1.8.3	20-Jan-25	NA
IR 8.6	06-Nov-24	5.8.6	1.8.3	20-Jan-25	NA
IR 8.7	22-Jan-25	5.8.6	1.8.3	22-Jan-25	NA
IR 8.8	12-Feb-25	5.8.7	1.8.3	12-Feb-25	NA
IR 8.9	12-Mar-25	5.8.8	1.8.3	12-Mar-25	NA
IR 8.10	26-Mar-25	5.8.9	1.8.3	26-Mar-25	NA
IR 8.11	11-Jun-25	5.8.9	1.8.3	11-Jun-25	NA

Please note there have been other interim MHHS design releases but they did not require an update to the swagger definitions.

2. Schema Versions

Each Message channel has a schemaVersion and these are managed within the CommonBlock (see above). The schema version will be updated when there has been a change to the underlying message structure.

Pre-go-live, the schemaVersion number for *all message channels and event codes* have incremented along with the MHHS Interim Release number, *offset by three*. For example, schemaVersion 009 corresponded to IR6, schemaVersion 010 corresponded to IR7, schemaVersion 011 corresponded to IR8.

Post go-live, schemaVersion numbers are increment **as required per message channel**. For example, DIP SubmitEvents API specification version 1.8.4 may include IF-001 schemaVersion 011, whereas IF-002 may increment to schemaVersion 012.

Moving forward, as part of the release notes, information will be provided for each interface and the current and new versions of each, with reference to relevant DIP CR numbers. At present in version 2.0.1., the next release there are no interface changes:

Interface	Interface Name	Event Code(s)	Current Version (1.83)	Next Version (2.0.1)
IF-001	Notification of Change of Supplier	[ChangeOfSupplier]	011	011
		[InitialRegistration]	011	011
IF-002	Notification to New Supplier of Site Information	[GainMPANInfo]	011	011
IF-003	Notification of Reverse Migration and Deappointment	[ReverseMigNotification]	011	011
		[MSDeAppRM]	011	011
		[DSDDeAppRM]	011	011
IF-004	Comms Hub Information (Optional)	[CommsHubInfo]	011	011
IF-005	Metering Service MTD Updates to Registration	[MeterInstall]	011	011
		[MeterRemoval]	011	011
		[MeterExchange]	011	011
		[MeterUpdate]	011	011
		[MeterHistoryUpdate]	011	011
IF-006	Notification of Metering Service MTD Update to Registration	[MeterInstall]	011	011
		[MeterExchange]	011	011
		[MeterRemoval]	011	011
		[MeterUpdate]	011	011
		[MeterHistoryUpdate]	011	011
IF-007	Change of Energisation Status Outcome	[EnergisationStatusChange]	011	011
		[EnergisationStatusFailure]	011	011
IF-008	Registration Service Notification of Change of Energisation Status	[EnergisationStatusChange]	011	011
IF-009	Notification of Metering Service MTD Update to Registration	[MPANDisconnection]	011	011
		[MPANReconnection]	011	011
		[CSSDeRegistration]	011	011
IF-013	MDS Defaults Applied	[ActivePowerDefaulted]	011	011
IF-014	UTC Settlement Period Consumption Data (Warnings & Rejections)	[ActivePowerRejected]	011	011
		[ConsumptionOnDeEnergisedMPAN]	011	011
IF-015	Request Historic Consumption Replay (ADV Sites only)	[ConsumptionReplay]	011	011
IF-016	Settlement Period Consumption Data - Replay	[ActivePower]	011	011
		[ReactivePower]	011	011
		[ActivePowerRejected]	011	011
		[ActivePowerDefaulted]	011	011

Interface	Interface Name	Event Code(s)	Current Version (1.83)	Next Version (2.0.1)
		[ConsumptionRequestRejected]	011	011
IF-018	Notification of Registration Data Item Changes	[AddressChg]	011	011
		[GSPChg]	011	011
		[GDUOSTariffDChg]	011	011
		[DomPremInd]	011	011
		[EnergyDirection]	011	011
		[DCCEnrolment]	011	011
		[MUMIndicator]	011	011
IF-019	Maintain MPAN Relationships	[LinkedImportExportCase]	011	011
		[LinkedImportExportAdd]	011	011
		[LinkedImportExportRemove]	011	011
		[RelatedCase]	011	011
		[RelatedAdd]	011	011
		[RelatedRemove]	011	011
IF-020	Maintain MPAN Relationships Outcome	[LinkedImportExportCreate]	011	011
		[LinkedImportExportAdd]	011	011
		[LinkedImportExportRemove]	011	011
		[RelatedCreate]	011	011
		[RelatedAdd]	011	011
		[RelatedRemove]	011	011
IF-021	UTC Settlement Period Consumption Data	[ActivePower]	011	011
		[ReactivePower]	011	011
IF-022	LSS Period Data	[LSSPeriodData]	011	011
IF-023	LSS Totals Data	[LSSTotalsData]	011	011
IF-024	Supplier Advisory Notification to DS	[SN-Vacant]	011	011
		[SN-NoComms]	011	011
		[SN-RemoteEnabled]	011	011
		[SN-RemoteDisabled]	011	011
		[SN-SupplierAC]	011	011
		[SN-OffPeakDec]	011	011
IF-025	Supplier Updates to Registration	[ConsentGranularity]	011	011
		[IHDInfo]	011	011
		[SMSO]	011	011
		[SSCandProfileClass]	011	011
IF-026	Registration Service Notification of Supplier Data Chg	[ConsentGranularity]	011	011
		[IHDInfo]	011	011
		[SMSO]	011	011
		[SSCandProfileClass]	011	011
IF-027	Consumption Amendment Request	[ConsumptionAmendment]	011	011
IF-028	Consumption Amendment Request Response	[ConsumptionAmendment]	011	011
IF-031	Supplier Service Provider Appointment Request	[MSApp]	011	011
		[DSApp]	011	011
IF-032	Supplier Service Provider Appointment Request Response	[MSAppInitialResp]	011	011
		[DSAppInitialResp]	011	011
IF-033	Registration Service Request for Service Appointment	[MSAppSPRequest]	011	011
		[DSAppSPRequest]	011	011

Interface	Interface Name	Event Code(s)	Current Version (1.83)	Next Version (2.0.1)
IF-034	Service Provider Appointment Request Response	[MSAppSPResponse]	011	011
		[DSAppSPResponse]	011	011
		[SDS-MDRUpdate]	011	011
IF-035	Registration Service Appointment Status Notification	[MSAppAccepted]	011	011
		[MSAppRejected]	011	011
		[MSAppLapsed]	011	011
		[DSAppAccepted]	011	011
		[DSAppRejected]	011	011
		[DSAppLapsed]	011	011
		[IMS-SendMTD]	011	011
		[SDS-MDROutcome]	011	011
IF-036	Registration Service Notification of Service Appointment & Supporting Info	[DCC-MDROutcome]	011	011
		[MSAppActive]	011	011
IF-037	Registration Service Notification of Service De-Appointment	[DSAppActive]	011	011
		[MSDeApp]	011	011
[DSDeApp]		011	011	
[MSDeAppUpdate]		011	011	
IF-038	Customer Direct Contract Advisory	[DSDeAppUpdate]	011	011
		[DirectContractMSAdd]	011	011
		[DirectContractDSAdd]	011	011
		[DirectContractMSRemove]	011	011
IF-039	Customer Direct Contract Advisory Response	[DirectContractDSRemove]	011	011
		[DirectContractMSAdd]	011	011
		[DirectContractDSAdd]	011	011
		[DirectContractMSRemove]	011	011
IF-041	Smart / Advanced Readings	[DirectContractDSRemove]	011	011
		[AnnualConsumption]	011	011
		[ReadingRmv]	011	011
		[ReadingInstl]	011	011
		[ReadingEnergisationChg]	011	011
		[ReadingCOR]	011	011
		[ReadingOnSite]	011	011
		[ReadingCOS]	011	011
		[DSEstimate]	011	011
[SupplierAgreedCOS]	011	011		
IF-043	Registration Service Notification of Change of Connection Type	[ReadingOverride]	011	011
		[ReadingRemote]	011	011
IF-044	Registration Service Notification of Change of Segment	[ConnectionTypeChange]	011	011
IF-045	Registration Service Reminder Notification	[MarkletSegmentChange]	011	011
		[InvalidMarketSegment]	011	011
		[ConsentGranularityInvalid]	011	011
		[NoMSAppointed]	011	011
		[NoDSAppointed]	011	011

Interface	Interface Name	Event Code(s)	Current Version (1.83)	Next Version (2.0.1)
IF-047	Notification of the Publication of a Downloadable Asset	[ISD]	011	011
IF-050	EES Updates	[MPANCreation]	011	011
		[MPStatusChange]	011	011
		[GreenDeal]	011	011
IF-051	EES Data Refresh	[EESRefresh]	-	001
IF-061	MDR Start Request	[MDRStart]	011	011
IF-062	MDR Start Request Response	[MDRStartResponse]	011	011
IF-063	MDR Stop Request	[MDRStop]	011	011
IF-064	MDR Provide Consumption	[MDRConsumption]	011	011
IF-065	MDR Request / Provide Meter Reading	[ReadingRemote]	011	011
		[MDRInstantaneous]	011	011
		[MDRTOU]	011	011
		[MDRConsumption]	011	011
REP-002	Supplier report fo DUoS - aggregated data	[DUoSSupplierAggData]	008	008
REP-002A	Embedded Network report for DUoS - aggregated data	[DUOSEmbeddedLDSOAggData]	008	008
REP-002B	LDSO report for DUoS - aggregated data	[DUOSLDSOAggData]	008	008
REP-003	BM Unit Allocated Demand Volumes to Suppliers	[BMUnitAllocatedDemand VolumesToMarketParticipants]	008	008
REP-003A	Aggregated BM Unit Allocated Demand Volumes to Suppliers	[AggregatedBMUnitAllocatedDemand Volumes]	008	008
REP-004	Supplier Deemed Take Report	[SupplierDeemedTakeReport]	008	008
REP-006	Aggregated Uncorrected volumes by CCC to Suppliers	[UncorrectedConsumptionAndLossesBy CCCID]	008	008
REP-007	VAS exception report to Suppliers	[BMUnitDefaultsToSuppliers]	008	008
REP-008	MDS Exception Repor to LDSOs	[LDSOLLFDefaultData]	008	008
REP-009	EMRS report for Suppliers	[EMRSReportForSuppliers]	008	008

3. Relationship to the DIP Change Process

Under [DSD004 2.13](#), changes to DIP interface message definitions are governed by the processes of the relevant Industry Code and recorded within the EMDS maintained by the REC Code Manager. The DIP SubmitEvents API specification must align with the EMDS.

The DIP SubmitEvents API specification may also require updates for other reasons (such as DIP system changes or editorial improvements) that do not constitute changes to EMDS-controlled message definitions.

Three potential change routes exist for updates to the DIP SubmitEvents API specification:

3.1 Change to a DIP interface message

A modification is required to a DIP interface message definition, including message structure, data items, or schema.

Process:

- The change follows the process set out in [DSD004 2.13](#), led by the Industry Code that owns the message (e.g. BSC, REC, DCUSA).
- The CCSG coordinates between Code Bodies as necessary, ensuring aligned progression and communication.
- The REC Code Manager maintains the EMDS as the master copy of message formats.
- The DIP Manager participates to assess system and interface impacts.
- A DIP Change Request (CR) is raised, but no decision is required from the DIP Manager or DCAB (see [DSD004 2.13.4](#)).

During the “Publish Final Assessment Report” stage (see amber box below), if required, the DIP Manager will publish a final draft of the next version of the DIP SubmitEvents API specification that reflects the changes to DIP interface messages.

- Once approved through the relevant Industry Code process, the change is implemented jointly by Code Bodies and the DIP Manager (see green box below), and the DIP SubmitEvents API specification is finalised and published with a new version number and referenced in the associated release notes.

3.2 DIP CR with impact on DIP SubmitEvents API specification

A DIP CR has indirect implications for the DIP SubmitEvents API specification (such as a processing change), but does not alter EMDS message formats.

Process:

- The DIP Manager assesses whether the change affects the DIP SubmitEvents API specification.
- Any necessary DIP SubmitEvents API specification adjustments are treated as consequential updates within the DIP CR IA.

During the “Publish Final Assessment Report” stage (see amber box below), if required, the DIP Manager will publish a final draft of the next version of the DIP SubmitEvents API specification

- During the “Implement DIP CR” stage as part of release execution (see green box below), the DIP SubmitEvents API specification is finalised and published with a new version number and referenced in the associated release notes.

3.3 DIP SubmitEvents API specification-only changes

Editorial, documentation, or presentational updates to the DIP SubmitEvents API specification that do not affect DIP interface messages or system functionality, such as clarification of endpoint descriptions or examples, correction of spelling mistakes and formatting errors, or improved navigation and usability.

Process:

- As the DIP SubmitEvents API specification is not a controlled document under the DIP Rules, the DIP Manager may update the DIP SubmitEvents API specification outside the formal change process. The DIP Manager must ensure that such updates do not create any misalignment with EMDS message definitions or DIP behaviour.
- In such cases, the DIP SubmitEvents API specification is re-published with a new version number and referenced in associated release notes.

