

Switching Programme: Summary of changes to the ABACUS model

17 December 2018

Summary of ABACUS Model Changes

The tables below provide a summary of changes made to the ABACUS model as a result of change requests approved and implemented following the publication of Design Baseline 4 on 22 June 2018.

CR-Ex	Item updated	Description	Date of change
7,11,13	Requirements	New and updated requirements	6/12/18
8	Business rules (elec & gas confirmed and secured notify rules)	Splitting of notifications between submitting organisation for registration requests status updates and gaining supplier for registration lifecycle status updates	29/11/18
8	Data model	Addition of Enforcing Energy supplier specialisation	29/11/18
12	Process model	Updated description for MPAS and UK Link syncs to include Retail Energy Location	30/11/18
12	Process model	<ul style="list-style-type: none"> Modularised REL sync to MPAS and UK Link by removing from multiple existing diagrams and placing in standalone diagram Updated existing diagrams to call out to new diagram in place of removed components 	28/11/18
12	ISDs	Modification of existing ISDs to sync REL to UK Link and MPAS at Initial registration, MPL update, and GB address update	29/11/18
17,18	Data model	Addition of Registration Event source capture time	6/12/18
17, 18	Data model	Addition of Registration Lifecycle Status source capture time	6/12/18
17, 18	Messages	Modifications to capture source capture timestamp in existing inbound and outbound messages	29/11/18

Summary of CR-E10 Changes

Refinements of the data model included the re-modelling of addresses and registration management requests, in addition to a number of individual improvements. These are itemised in the following table.

Object Class Name	Data Element Name	Change	Reason
Addressable Location		Deleted	No longer required – Addresses were remodelled in the CSS model to more closely support the functional requirements of address management
Addressable Location Resolution		Deleted	No longer required – Addresses were remodelled in the CSS model to more closely support the functional requirements of address management
Annulment	Annulment Window End Date	Deleted	No longer required in the CSS model
Asset Deployment	Asset Deployment CommsHub Device GUID	Deleted	In the end-to-end model, GUIDs are not relevant to assets for the purpose of assigning meter asset providers
Basic Land and Property Unit		Deleted	No longer required – Addresses were remodelled in the CSS model to more closely support the functional requirements of address management
Data Aggregator		Added	New object class – new specialisation that replaces the Decentralised Electricity Settlements Agent
Data Collector		Added	New object class – new specialisation that replaces the Decentralised Electricity Settlements Agent
Deactivation Request		Deleted	“Deactivation” renamed “Registration Deactivation Request” in the CSS model and more accurately presented as a specialisation of “Registration Action”
Decentralised Electricity Settlements Agent		Deleted	Replaced by more meaningful object class specialisations Data Aggregator and Data Collector
Distribution Network Operator	Distribution Network Operator Market Participant Role Identifier	Renamed	Renamed to DNO Market Participant Role Identifier for brevity

Object Class Name	Data Element Name	Change	Reason
Gas Transporter	Gas Transporter Market Participant Role Identifier	Renamed	Renamed to GT Market Participant Role Identifier for brevity
Land and Property Identifier		Deleted	No longer required – Addresses were remodelled in the CSS model to more closely support the functional requirements of address management
Language		Added	New object class - Addresses were remodelled in the CSS model to more closely support the functional requirements of address management
Location Address		Added	New object class - Addresses were remodelled in the CSS model to more closely support the functional requirements of address management
Location Address Selection Method		Added	New object class - Addresses were remodelled in the CSS model to more closely support the functional requirements of address management and is used for the determination of the REL
Location Address Source		Added	New object class - Addresses were remodelled in the CSS model to more closely support the functional requirements of address management
Market Participant	Market Participant MPID Description	Renamed	Renamed to Market Participant Description - all reference object classes to have the same structure of identifier, name and description
Market Participant	Market Participant Name	Added	Omitted in the original switching model – all reference object classes to have the same structure of identifier, name and description
Market Participant Role		Added	New object class – new specialisation that documents an enumeration

Object Class Name	Data Element Name	Change	Reason
Green Deal Event			of the relevant data element in the parent data object
Market Participant Role Ownership	Market Participant Role Ownership Retail Energy Company Name	Renamed	Renamed to Market Participant Role Ownership Retail Energy Company Registration Number as this is the correct term used in industry
Market Participant Role Sanction Event		Added	New object class - new specialisation that documents an enumeration of the relevant data element in the parent data object
Meter Point Location		Deleted	No longer required – Addresses were remodelled in the CSS model to more closely support the functional requirements of address management
Metering Equipment Asset	Metering Equipment Asset Device GUID	Deleted	In the end-to-end model, GUIDs are not relevant to assets for the purpose of assigning meter asset providers
Objection	Objection Effective From Date	Deleted	Deleted from CSS model – no longer required. It is preferable to base the reporting requirements on the Registration Intervention date elements rather than a specific Objection Effective From Date.
Objection	Objection Effective Through Date	Deleted	Deleted from CSS model – no longer required. It is preferable to base the reporting requirements on the Registration Intervention date elements rather than a specific Objection Effective Through Date.
Objection	Objection Indicator	Deleted	Deleted from CSS model – no longer required. It is preferable to base the reporting requirements on the Registration Intervention Type code rather than an Objection Indicator.

Object Class Name	Data Element Name	Change	Reason
Objection	Objection Window End Date	Deleted	Deleted from CSS model – no longer required. The objection window is now determined by the Registration Intervention Window Start Date, the Registration Intervention Type, and the parameter for Objection Window Duration.
Objection Override		Added	Added as part of the existing E2E model
Objection Request		Added	New object class – new specialisation. This is a form of Registration Request Action, irrespective of it coming from the losing or gaining supplier.
Registrable Measurement Point	RMP Effective From Date	Deleted	Deleted from CSS model – no longer required. This data element has been moved from the Registrable Measurement Point object class to the RMP Event object class.
Registrable Measurement Point	RMP Effective Through Date	Deleted	Deleted from CSS model – no longer required. This data element has been moved from the Registrable Measurement Point object class to the RMP Event object class.
Registration	Registration Erroneous Switch Confirmed Date	Moved	Moved from the Switch Request object class to the Registration object class as it needs to be held in the context of the re-registration
Registration	Registration Erroneous Switch Resolution Indicator	Moved	Moved from the Switch Request object class to the Registration object class as it needs to be held in the context of the re-registration
Registration Action		Added	New object class – new specialisation - this has been included to capture the types and sub-types of a Registration Management Request that relate to the

Object Class Name	Data Element Name	Change	Reason
			Registration Event and Deactivation Request
Registration Deactivation Request		Added	New object class – new specialisation that enumerates the type of Registration Action that can occur
Registration Event Request		Added	New object class – new specialisation that enumerates the type of Registration Action that can occur
Registration Management Request	Registration Management Request RMP Identifier	Renamed	Renamed to Registration Management Request Identifier to align with naming conventions.
Registration Management Request	Registration Management Request SubType Identifier Reference	Added	This was included in the accompanying diagram of the data model in the CSS URS, but for some reason was not included in the body of the URS text
Registration Management Request Lifecycle Status	Registration Management Request Lifecycle Status Request Identifier	Renamed	Renamed to Registration Management Request Lifecycle Status Identifier as the original name was unnecessarily tautological
Registration Management Request SubType		Relationship changed	This is now a child reference entity of Registration Management Request Type
Registration Management Request SubType		Added	New object class – Registration Management Request types and sub-types were remodelled in the CSS model, and the structure was updated to reflect the hierarchical nature of the enumeration types and sub-types
Registration Management Request SubType	Registration Management Request Type Identifier Reference	Added	New foreign key added to reflect the new relationship between Type and SubType
Registration Management Request Type		Relationship changed	The relationship between Registration Management Request Type has been redefined to reflect the

Object Class Name	Data Element Name	Change	Reason
			hierarchy of defined types in the model
Registration Request	Annulment Window End Date	Deleted	Recommend that this is deleted from the data model because the objection window length is governed by the Objection Window Start Date
Registration Request	Objection Window End Date	Deleted	Recommend that this is deleted from the data model because the objection window length is governed by the Objection Window Start Date and the parameter Objection Window Duration
Registration Request	Registration Request Domestic Indicator	Moved	This has been moved to the Registration Event object class
Registration Request	Registration Request One Fail All Fail Supplier Generated Group Reference	Added	Added into CSS model as a derived data element
Registration Request	Registration Request Shipper Market Participant Role Identifier	Deleted	Deleted from CSS model – no longer required Clarification – This has been moved to the Registration Event object class
Retail Energy Company Group	Retail Energy Company Group Identifier	Added	Omitted in the original CSS model – all reference object classes to have the same structure of identifier, name and description
Retail Energy Company Group Membership	Retail Energy Company Group Membership Company Name Reference	Renamed	Renamed to Retail Energy Company Group Membership Company Identifier Reference - – all reference object classes to have the same structure of identifier, name and description
Retail Energy Company Group Membership	Retail Energy Company Group Membership Name Reference	Renamed	Renamed to Retail Energy Company Group Membership Registration Number Reference - – all reference object classes to have the same structure of

Object Class Name	Data Element Name	Change	Reason
			identifier, name and description
Retail Energy Location	Retail Energy Location Address Identifier Reference	Added	Added into CSS model - Addresses were remodelled in the CSS model to more closely support the functional requirements of address management
Retail Energy Location	Retail Energy Location Address Selection Confidence Score	Added	Added into CSS model - Addresses were remodelled in the CSS model to more closely support the functional requirements of address management
Retail Energy Location	Retail Energy Location Address Selection Method Identifier Reference	Added	Added into CSS model - Addresses were remodelled in the CSS model to more closely support the functional requirements of address management
Retail Energy Location	Retail Energy Location Designated Address Indicator	Added	Added into CSS model - Addresses were remodelled in the CSS model to more closely support the functional requirements of address management
Retail Energy Location	Retail Energy Location Effective From Date	Added	Added into CSS model - Addresses were remodelled in the CSS model to more closely support the functional requirements of address management
Retail Energy Location	Retail Energy Location Effective Through Date	Added	Added into CSS model - Addresses were remodelled in the CSS model to more closely support the functional requirements of address management
Retail Market Domain Specification	Annulment Processing Indicator	Added	Added into CSS model as an additional configurable parameter for the Switching Domain
Retail Market Domain Specification	COO Objection Processing Indicator	Added	Added into CSS model as an additional configurable parameter for the Switching Domain
RMKP CommsHub Link	RMP CommsHub Link Hub Identifier	Renamed	Renamed to RMP CommsHub Link Identifier to align with naming conventions.

Object Class Name	Data Element Name	Change	Reason
RMP License Exempt Network Event	RMP License Exempt Network Event Indicator	Renamed	Spelling corrected from License to Licence
RMP Network Provision	RMP Network Provider Market Participant Identifier	Renamed	Renamed to RMP Network Provision Market Participant Identifier to bring it into line with the other data elements in this data object
RMP Time Boundary Alignment Event		Added	New object class – new specialisation introduced as part of Change Request 4
Spatial Address Provider		Deleted	No longer required – Addresses were remodelled in the CSS model to more closely support the functional requirements of address management
Street		Deleted	No longer required – Addresses were remodelled in the CSS model to more closely support the functional requirements of address management
Supplier Arranged Appointment	Supplier Arranged Appointment Market Role Name	Deleted	Deleted from CSS model – no longer required as the Market Participant Role Identifier validates this association
Switch Request	Switch Request One Fail All Fail Group Member Count	Moved	This has been moved to the object class Switch Request Group
Withdrawal Request Reason		Added	Industry object class introduced to show the relationship between industry withdrawal reasons and those in CSS
Withdrawal Request Reason Type		Added	Deleted as no longer part of the CSS model
Withdrawal Request Reason Type		Added	Industry object class introduced to show the relationship between industry withdrawal reasons and those in CSS

Elaboration of the data model consisted of the addition of the following properties to every data element in the CSS model, which have been incorporated into the Data Elements catalogue:

Data Type Domain	Date, Date Time, Time, Identifier, Indicator, Name, Number, Quantity, Text, Amount, Code
Options	Null, Not null
Key	Primary, foreign or primary-and-foreign key
Description	A meaningful textual description

For a detailed explanation of all of these, please refer to D-4.2.1 CSS User Requirements Specification.