Switching Programme Change Request Form

Ofgem use only:

Change request No.	CR-E10	Current CR version:	0.3
Change request status:	Approved	Version date:	30/11/2018
Change Window:	9		

Please submit this completed form to the Ofgem Switching Programme PMO Team
(SwitchingPMO@ofgem.gov.uk)

Change Requestor's details – Change Requestor to complete
Name: Jenny Boothe/Kate Goodman
Organisation: DCC Switching Programme
Email address: jenny.boothe@ofgem.gov.uk / kate.goodman@smartdcc.co.uk
Telephone number: 020 3263 9818 / 07342 975 140

Please note that by default we will include the name and organisation of the Change Requestor in Switching Programme's published Change Log. If you do not wish to be identified please tick this box ☐ |

Change Title – Change Requestor to complete
Data model elaboration, message definition

Change summary – Change Requestor to complete
Background

The Switching E2E Architecture Repository (ABACUS) was developed in two parts during the DLS phase. One part underpinned the Switching E2E Design and is published to the Ofgem website with unrestricted public access at https://dcc2-pub.avolutionsoftware.com/Switchingbaseline/.
In the second part, the Data Model was refined and elaborated to support the procurement of the Central Switching Service (CSS) and was published as a Word document (it appeared as an appendix to the CSS User Requirement Specification (URS), which will now be removed and replaced by a reference to the model).

The repository needs to be updated so that it incorporates the detailed CSS design into the E2E baseline. It also needs to be updated further to define the messages passed to/from CSS. The logical data content and structure of messages that are passed between CSS and other data services under the new switching arrangements will be added. |

Justification for change – Change Requestor to complete
The message definitions (lists of data elements in a message, including optionality of data elements) will provide a better starting point for the CSS Provider, the central industry service providers and industry participants to develop solutions. The entire model needs to be defined in a single place.

Requested Decision Timing – Change Requestor to complete
As soon as possible so that the definitions are available to industry participants and are available to bidders at the BAFO stage.

Programme Products affected by proposed change – Change Requestor to complete
D-4.1.2 E2E Detailed Design Models V2.0 22nd June 2018 D-4.1.3 E2E Data Architecture and Data Governance V2.0 22nd June 2018 D-4.2.1 CSS User Requirements Specification V2.0 22nd June 2018

Change Advisory Team (CAT) Lead:	Jenny Boothe
Contact details:	jenny.boothe@ofgem.gov.uk
PMO Lead:	Sharina Begum - Ofgem
Contact details:	sharina.begum@ofgem.gov.uk

Change Assessment Team – Initial Assessment (Triage)
Change has a Design Impact? None – Design remains extant. Name: Jenny Boothe   Date: 16 May 2018 Role: Design Lead
Change has an Implementation Impact (including Programme Plan)? No Name: Jenny Boothe   Date: 16 May 2018 Role: Design Lead
Change has an Alignment Impact? No Name: Jenny Boothe   Date: 16 May 2018 Role: Design Lead
Change has a Commercial/Procurement Impact? No Name: Jenny Boothe   Date: 16 May 2018 Role: Design Lead
Change has a Regulatory Impact? No Name: Jenny Boothe   Date:16 May 2018 Role: Design Lead
Change has a Security Impact? No

Name: Jenny Boothe	Date: 16 May 2018
Role: Design Lead	

Change IA Effort	Minor
Change Process Route	Full
Change Window	6
To be submitted to the Design Forum on:	24 September 2018 01 October 2018
Approval Authority:	Programme Manager (DA Chair)
Target Change Decision Date:	12 October 2018

Checked for completeness by: **(Name & Role)**	**Date:**
Sharina Begum Switching PMO Manager, Ofgem	05/10/18

Impact Assessment – Overall

The consolidation of these two versions of ABACUS will provide the holistic picture of the data model and governance for the new switching arrangements in a single repository that will be made available to all market participants and potential CSS service providers. This will enable service provider to understand how they and the data they master fits within the wider switching environment.

Assessment completed By: **(Name & Role)**	**Date:**
Jenny Boothe - Ofgem	05/10/18

Impact Assessment – Resource Effort

1FTE over 5 working days to merge the versions of ABACUS

3FTE over 3 working days to revise and QA associated word documents.

Costs will be absorbed within the DCC budget.

Assessment completed By: **(Name & Role)**	**Date:**
Kate Goodman - DCC	05/10/18

Impact Assessment – Programme OBC

No impact

Assessment completed By: **(Name & Role)**	**Date:**
Jenny Boothe - Ofgem	05/10/18

Impact Assessment –Programme Design & Architectural Principles

Design Principle	**Description**	**RAG Status & Summary**
Impact on Consumers		

1 Reliability for customers	All switches should occur at the time agreed between the customer and their new supplier. The new arrangements should facilitate complete and accurate communication and billing with customers. Any errors in the switching process should be minimised and where they do occur, the issue should be resolved quickly and with the minimum of effort from the customer. The customer should be alerted in a timely manner if any issues arise that would affect their switching experience.	N/A
2 Speed for customers	Customers should be able to choose when they switch. The arrangements should enable fast switching, consistent with protecting and empowering customers currently and as their expectations evolve.	N/A
3 Customer Coverage	Any differences in customer access to a quick, easy and reliable switching process should be minimised and justified against the other Design Principles.	N/A
4 Switching Experience	Customers should be able to have confidence in the switching process. The process should meet or exceed expectations, be simple and intuitive for customers and encourage engagement in the market. Once a customer has chosen a new supplier, the switching process should require the minimum of effort from the customer. The customer should be informed of the progress of the switch in a timely manner.	N/A
Impact on Market Participants		
5 Competition	The new supply point register and switching arrangements should support and promote effective competition between market participants. Where possible, processes should be harmonised between the gas and electricity markets and the success of the switching process should not be dependent on the incumbent supplier or its agents.	N/A
6 Design – simplicity	The new supply point register and arrangements should be as simple as possible.	N/A

7 Design – robustness	The end-to-end solution should be technically robust and integrate efficiently with other related systems. It should be clearly documented, with effective governance. The new arrangements should proactively identify and resolve impediments to meeting consumers' and industry requirements. These arrangements should be secure and protect the privacy of personal data.	N/A
8 Design – flexibility	The new arrangements should be capable of efficiently adapting to future requirements and accommodating the needs of new business models.	N/A
Impact on Delivery, Costs and Risks		
9 Solution cost/benefit	The new arrangements should be designed and implemented to maximise the net benefits for customers.	N/A
10 Implementation	The plan for delivery should be robust, and provide a high degree of confidence, taking into account risks and issues. It should have clear and appropriate allocation of roles and responsibilities and effective governance.	N/A

Architectural Principle	Description	RAG Status & Summary
1 Secure by default & design	All risks documented & managed to within the tolerance defined by the organisation or accepted by the Senior Risk Owner	N/A
2 Future Proof Design	Common design approaches will better enable designs to support future developments e.g. A mechanism for achieving non-repudiation	N/A
3 Standards Adoption	Adopt appropriate standards for products, services or processes. e.g. ISO/IEC 11179 for data definition	N/A
4 One Architecture	One single definitive architecture prevails	This CR ensures that there is a single architecture for the entirety of the new switching arrangements
5 Data is an asset	Data is an asset that has value to the enterprise and is managed accordingly	N/A
6 Data is shared & accessible	Users have access to the data necessary to perform their duties; therefore, data is shared across enterprise functions and departments.	N/A

7 Common vocabulary & data definitions	Data is defined consistently throughout the enterprise, the definitions being understandable and available to all users.	A common vocabulary will be applied for the E2E design
8 Requirements-based change	Only in response to business needs are changes to applications and technology made. E.g. only industry arrangements affecting switching will be impacted.	N/A
9 Quality Characteristics	Maintain a comprehensive set of quality characteristics by which to gauge the completeness of requirements for Applications and Services.	N/A

Summary: -

Assessment completed By: (Name & Role)	Date:
Jenny Boothe	*05/10/18*

Impact Assessment –Programme Plan

No impact

Assessment completed By: (Name & Role)	Date:
Switching Programme PMO Lead, Ofgem	05/10/18

Impact Assessment – Security

No impact

Assessment completed By: (Name & Role)	Date:
Switching Programme Security Lead, Ofgem	05/10/18

Programme Recommendation

Recommend approval

Assessment completed By: (Name & Role)	Date:
Switching Programme Design Lead, Ofgem	05/10/18

Next Steps

<If the change is approved, insert a summary of next steps including which products are to be updated as a result of this CR and details of any stakeholder engagement required>

The following outlines the changes made to D-4.1.3 E2E Data Architecture and Data Governance.

1. **Data Model Changes – CR-E10:**

Refinements of the data model included the remodelling 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

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 Green Deal Event		Added	New object class – new specialisation that documents an enumeration 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.
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 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 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 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.
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

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.

CR-E10 Data Model
Elaboration.docx

Change Request Decision		
DA Approval		
Change Approved:	**Yes**	
Decision maker: (Name & Role)	**Date:**	

Switching Programme Manager, Ofgem	05/10/18