Extraordinary DSG Meeting
CSS Consequential Change

21st May 2020

Agenda

- Welcome and introductions
- Walkthrough of the CSSC API design
- Shipper BRD Update
- Approach for incorporation of June 2020 release file format changes
- Data cleansing update
- AOB

CSSC API Design

API Approach

The APIs have been split into two different areas:

- UK Link Settlement APIs
  - This covers the new Settlement APIs for BRR, BRN, ASN, TMC

- UK Link Query & Gas API Service APIs
  - This covers Nomination Enquiry API, Supply Point Switching API, Transportation Rates API, MAP ID Enquiry API, REL Data Enquiry API

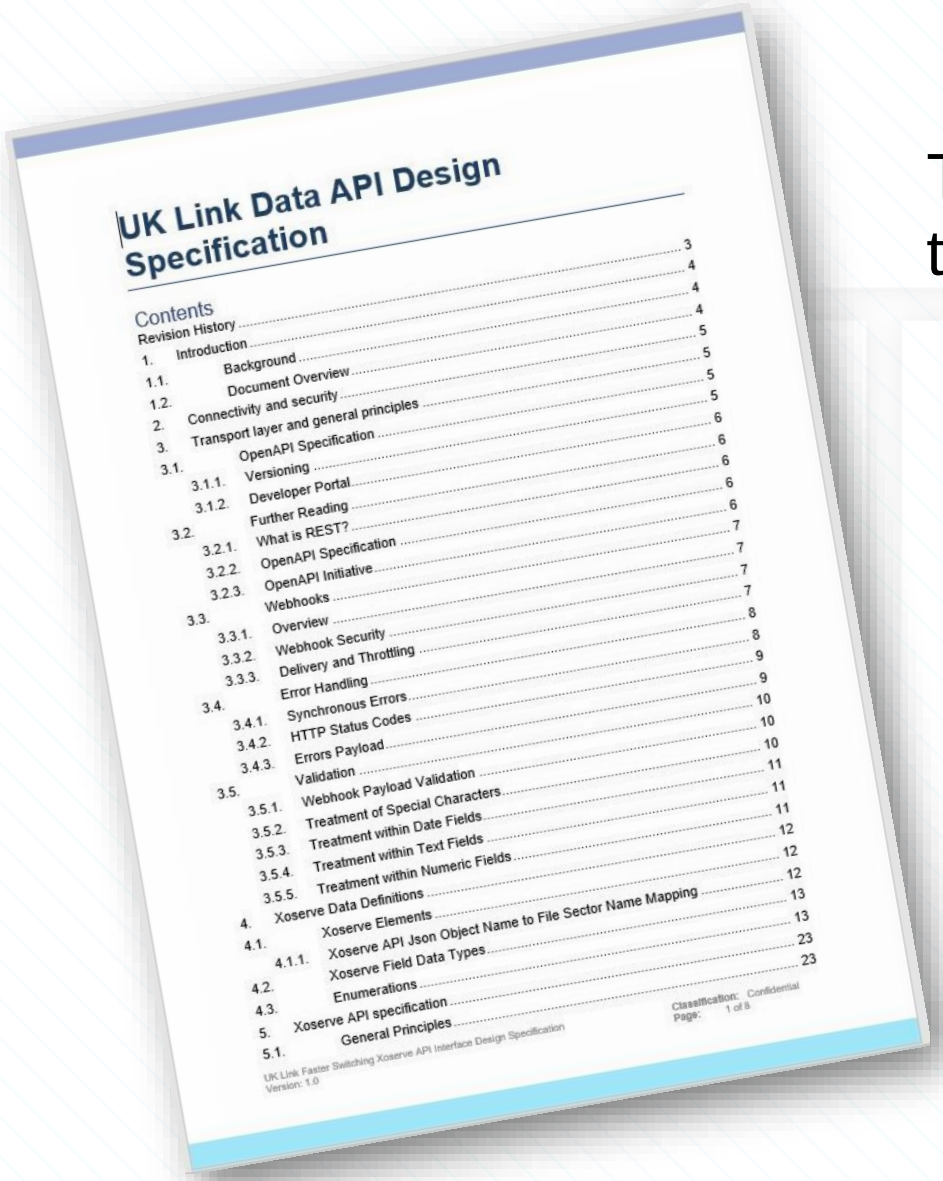
API Approach

- To maintain design consistency Xoserve will mirror architectural patterns proposed by the CSS physical design for API's and web hooks, message formats (Open API), and security decisions around message signatures & headers. To further the align the service with the CSS approach and inline with REST API principles the API has decomposed the corresponding File Hierarchies from the file base IX/AMT route into the individual messages contained within each e.g. a BRN for NOM, a BRN for no NOM or a BRN cancellation. Another difference will be that the API will receive one message per request.
- The API will validate each message on receipt for message structure, the presence of mandatory items and the correct format of attribute values. The API design will then respond synchronously to acknowledge successful receipt or respond with an error if present. Other business rule validation, for items whose mandatory status is conditional, will continue to be carried out in UK Link as present and any errors generated at this point will be indicated in the BRR in the corresponding Callback messages.

API Approach

- Where we differ from CSS is that we do not require the use of a correlationID as the message formats mirror the existing files and the necessary cross reference information is built in. We will however provide a unique messageID equivalent to the CSS eventID.
- Another departure from CSS design is that Xoserve API does not expose an Error API for the submission of errors resulting from asynchronous processing of messages received from Xoserve in Customers' systems.
- Messages from Xoserve to Customer's systems will be via a Callback mechanism and the set up and administration for this along with the ability to specify your endpoints and preference for the routing of the ASN and TMC files will be via a new Customer Portal and will be described in separate documentation.

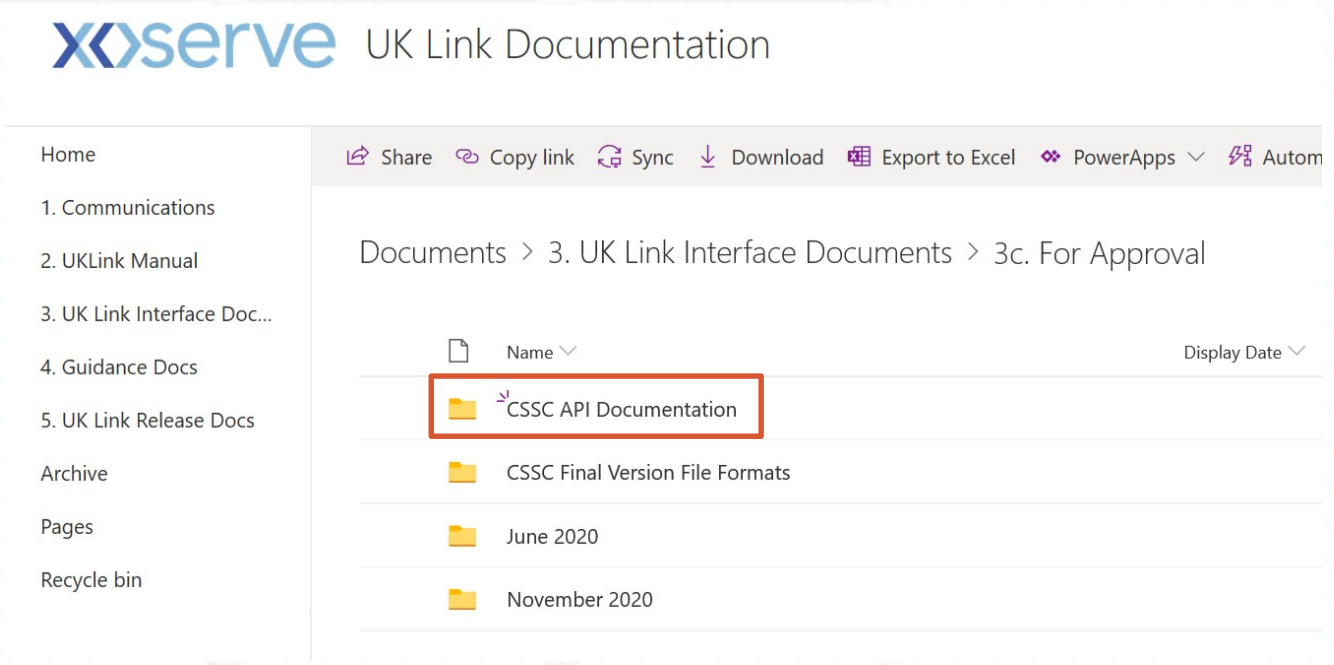
API Documentation


UK Link Data API Design Specification

Contents

Revision History 3
1. Introduction 4
1.1. Background 4
1.2. Document Overview 4
2. Connectivity and security 5
3. Transport layer and general principles 5
3.1. OpenAPI Specification 5
3.1.1. Versioning 6
3.1.2. Developer Portal 6
Further Reading 6
3.2. What is REST? 6
3.2.1. OpenAPI Specification 6
3.2.2. OpenAPI Initiative 7
3.2.3. Webhooks 7
3.3. Overview 7
3.3.1. Webhook Security 8
3.3.2. Delivery and Throttling 8
3.3.3. Error Handling 9
3.4. Synchronous Errors 9
3.4.1. HTTP Status Codes 10
3.4.2. Errors Payload 10
3.4.3. Validation 10
3.5. Webhook Payload Validation 11
3.5.1. Treatment of Special Characters 11
3.5.2. Treatment within Date Fields 11
3.5.3. Treatment within Text Fields 12
3.5.4. Treatment within Numeric Fields 12
3.5.5. Xoserve Data Definitions 12
4. Xoserve Elements 13
4.1. Xoserve API Json Object Name to File Sector Name Mapping 13
4.1.1. Xoserve Field Data Types 23
4.2. Enumerations 23
4.3. Xoserve API specification 23
5. General Principles 23
5.1.

The API documentation will be available via the UK Link Documents SharePoint site

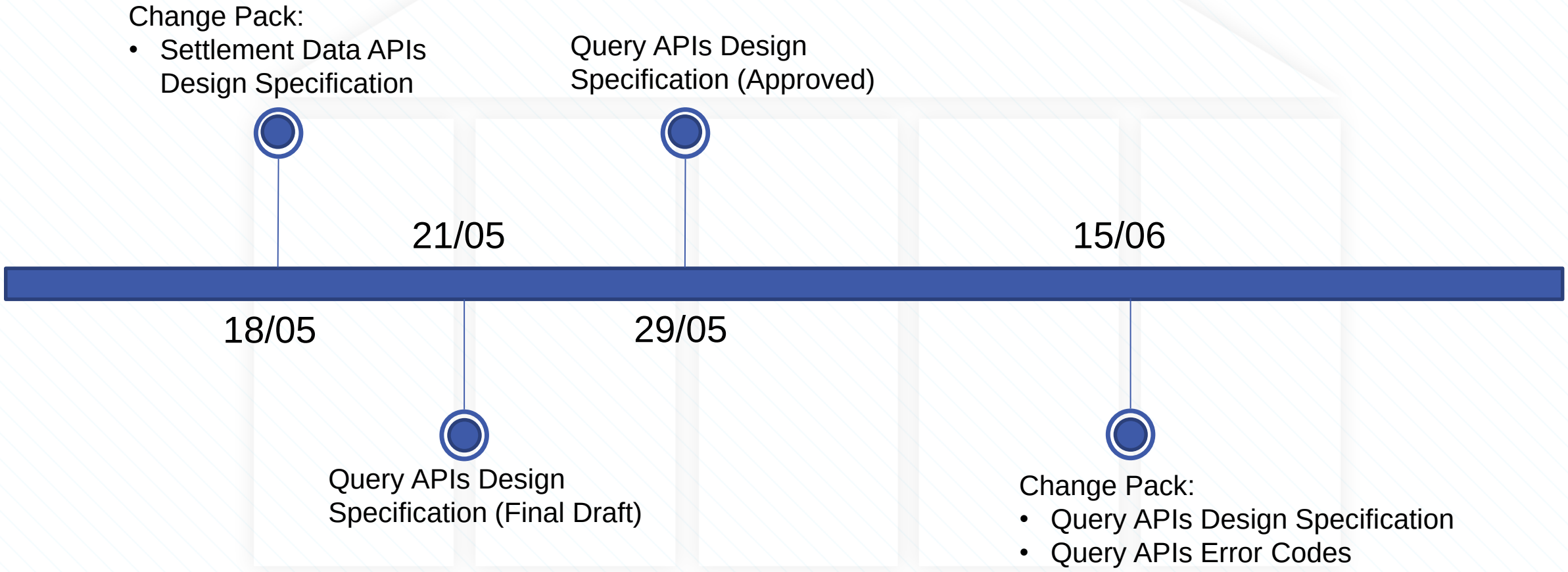


Additional Supporting Documentation

Supporting documentation will include:

- A Code of Connections document (CoCo)
- Error Handling Document
- A Customer Portal Document
  - Registering for the service
  - Managing users
  - Managing Callback endpoints and managing routing preferences via the portal

API High Level Documentation Timeline



Shipper BRD Update

Shipper BRD Updates

- As you would expect the BRD is a living document and will need to be periodically updated either to provide you with additional clarity or to reflect changes to the CSS processes / design.

- A number of clarification questions have been answered since the last version was issued that will be included within the next BRD release to ensure all industry parties have the same information.

Clarification Question Summary

Q – Can there be differences between data provided in the ASN and TMC files?

A – There could be differences in the data provided on the ASN and TMC files as a result of changes being applied to the meter point being switched, e.g. a change to the Supply Meter Point AQ or meter serial number within the S75 record.

Q – What happens if the RegistrationSecuredActiveSynchronisation message is received into UK Link before the RegistrationPendingSynchronisation message?

A – The Secured Active synch will not be processed in UK Link and an internal exception with be raised to investigate. Please note that this does mean that there could be a delay in issue the TMC file to Shippers.

Q – Where a BRN is linked to a CSS registration (and ASN issued) if the associated BRN is cancelled by the Shipper will a new ASN be issued?

A – Yes, an ASN will be issued which would contain the default settlement values the would be applied if no new BRD is received and accepted.

Clarification Question Summary

Q – If a CSS registration was cancelled after 3pm and a second BRN had also been accepted for that meter point after 3pm which BRN would be used on subsequent CSS registrations for the MPRN/Shipper/Supplier?

A – The last received, accepted and valid BRN would be used by UK Link for future registration associations. The original BRN that was linked to the registration would be superseded by the subsequent BRN.

Q – What timeline will Xoserve follow for forced registrations, will it be next day if the request is submitted by 5pm?

A – All forced registration requests will be issued to CSS each evening, these registrations will have an effective date two days in the future (e.g. if requested on a Monday these would become effective at midnight on the Wednesday).

Q – There is an effective date in the S66 record. Will this be validated against the CSS switch date? If not, what will happen if the date is different, will the CSS switch date over write any date provided?

A – The effective date will not be validated against the CSS registration effective date, however if there is a difference in dates then CSS registration date will be used as effective date to ensure alignment.

Clarification Question Summary

Q – Will we get just one TMC file a day?

A – No, due to the batch processing nature of the TMC files multiple files may be issued to Shipper each day.

Q – Can we use a T91 for a class 3 or 4 sites we have nominated and received and offer for. Or are we mandated to use a T90 and send an offer ref if we have nominated

A – The T90 record only need to be used for a Class 3 or 4 site where you want to link to settlement data for the meter point to the transportation offer received as part of the nomination process.

Additional Clarifications

- Further details will be included in the next version of the BRD to remove any ambiguity around the validity period of transportation offer and accepted settlement data accepted via the BRR.

- Additional details will be included to confirm which data items in the new outbound interfaces will be sourced from CSS registration data.

Renaming of RRN in UNC

- It was discussed and agreed at the Distribution Workgroup on 27th March that references to Referable Registration Nomination will be amended to Detail Registration Nomination in the UNC code issued to Ofgem for the Faster Switching SCR.

- As a result a number of file / record format changes should also be undertaken to reflect the change in new UNC terminology, for example
  - RT_T90_BASE_REGISTRATION_NOMINATION_FOR_RRN
  - RT_T91_BASE_REGISTRATION_NOMINATION_NO_RRN

BRN Cancellation Reasons

A question has been raised around cancellation reasons within the new T87 record:

- Should we have an additional reason in the BRN cancellation for objections. If we try 3 times and fail to gain the customer we will cancel the BRN so there is no risk of incorrect customer contact details being held for a future switch (if we were to be unsuccessful getting a BRN in you would use the old one we hadn't cancelled)

CANCELLATION_REASON_CODE	M	N	2	0	The Reference which captures the business reason as to why a Shipper cancels a BRN. VALUES: 01 – Customers Change of Mind. 02 – Erroneous Transaction.

Would you be supportive of this change in allowable values?

Approach for incorporation of June 2020 release file format changes

CSSC File Formats

- CSSC File Formats have been baselined as part of Project Delivery.
- The programme recognises that prior to CSSC go-live releases will continue in the interim and there will be a need to merge changes into the CSSC code base which may include changes to file formats. e.g. June 2020.
- The programme will aim to merge releases into the CSSC code-set as soon as possible following the go-live date for the particular release.
- As soon as stability is reached within a release design Xoserve will analyse any file format changes and produce an updated set of CSSC file format changes where necessary. This will be issued via an Informational Change Pack.
- Where there is a risk of contention with a merge process and a CSSC external test phase Xoserve will engage with participants to agree delivery dates for merged code-sets into test environments.

Data Cleansing Update

AOB