Detailed Design Change Pack

# Communication Detail

|  |  |
| --- | --- |
| Comm Reference: | 3128.3 - VO - PO  |
| Comm Title: | XRN5472 – Creation of a UK Link API to consume daily weather data for Demand Estimation processes |
| Comm Date: | 16/01/2023 |

**Change Representation**

|  |  |
| --- | --- |
| Action Required: | For information |
| Close Out Date: | 30/01/2023 |

# Change Detail

|  |  |
| --- | --- |
| Xoserve Reference Number:  | XRN5472 |
| Change Class: | Functional Change |
| \*ChMC Constituency Impacted: | Shippers and DNOs (Service Area 5) |
| Change Owner:  | Paul Orslerpaul.orsler@xoserve.com |
| Background and Context: | The current CDSP Weather Data Service Provider has given notice that it will no longer wishes to support the current mechanism (FTP) of delivering daily weather data (forecasts and observations) to UK Link beyond March 2023 as its strategic objective is to move all its customers to its API (Application Programming Interface) platform. This data is used to facilitate the CDSP Demand Estimation processes.The weather data is delivered from the current provider’s legacy systems which are being phased out and replaced with APIs. The primary benefit of making this change is to maintain the relationship with the current weather data service provider thereby securing the delivery of the CDSP's UNC Section H / DSC obligations associated with the calculation of a daily CWV. In addition, this change will move the current process away from an outdated mechanism for transferring/digesting data to a more flexible approach, which will be in line with how many data and technology companies now operate. The change also provides more stable support level arrangements (older legacy systems have less people/expertise available to call upon which can impact the ability of the CDSP in undertaking critical Demand Estimation services).Links to relevant documentation:* [Change Proposal Link](https://www.xoserve.com/media/43748/xrn5472-change-proposal.pdf)
* [High Level Solution Option Link](https://www.xoserve.com/media/43645/xrn5472-weather-data-api-hlso-v10.pdf)
* [High Level Solution Option Change Pack](https://view.officeapps.live.com/op/view.aspx?src=https%3A%2F%2Fwww.xoserve.com%2Fmedia%2F43624%2F30871-rt-po-xrn5472_solution-review-change-pack.docx&wdOrigin=BROWSELINK)

The change was scoped for delivery in the 25th March 2023 UK Link Release. |

# Change Impact Assessment Dashboard

|  |  |
| --- | --- |
| Functional: | Demand Estimation. No impact to customers. |
| Non-Functional: | None |
| Application: | SAP ISU, Microsoft Azure |
| User(s): | Internal CDSP users |
| Documentation: | None |
| Other: | Not applicable |

|  |
| --- |
| [File](https://xoserve.sharepoint.com/%3Aw%3A/r/sites/T-DSCChange/Shared%20Documents/Change%20Development/LWIs/LWI-CHD004%20File%20Format%20LWI%20V3%20Live.docx?d=w47110b876f8a4afabb1f1f2b1a64ab1e&csf=1&web=1&e=pvjrgz) Format |
| File | Parent Record | Record | Data Attribute | Hierarchy or FormatAgreed |
| None | None | None | None | None |

# Change Design Description

|  |
| --- |
| **Design Summary**To support the desired outcome for customers, a single solution option was identified. This option seeks to improve the CDSP Demand Estimation capability, ensuring that CDSP continues to be able to undertake key industry activities that require weather data to be made available and used in analytical processes. This solution leverages existing SAP PO and Demand Estimation technology, and supplements this by using Azure functionality to retrieve data via new APIs, allowing the data to be translated and absorbed into Demand Estimation processes. **High Level Process**The below outlines the high-level process for the CDSP receiving and processing Weather Data into UK Link:1. Weather Data is pulled, eleven times a day, using APIs from the service provider
2. CDSP transform the pulled data, via Azure, into the hourly actual and daily forecast weather data files
3. These weather data files are consumed by UK Link and used in Demand Forecasting and downstream processes in Gemini and UK Link.

In the event of a bias adjustment, the CDSP team analyses and uploads the revised data into UK Link for further processing. Exceptions will be automatically managed, within the new solution as per business rules. There will be no contingency process via email, however the availability of data stored in Azure from polling multiple times during each day and business rules are expected to aid contingency. Validation failures will be automatically managed within the new solution as per business rules and alerts will be designed to inform relevant stakeholders to resolve any issues.**Overview of Impacts**Detailed Analysis and Design has not identified any direct Shipper or Distribution Network technical or operational impacts. Only internal CDSP users, processes and systems will be impacted in the delivery of this change.There are no data impacts and there will be no data migration required in the delivery of this change.**Implementation Approach**This change will be implemented as a part of the 25th March 2023 UK Link release. |

# Associated Changes

|  |  |
| --- | --- |
| Associated Change(s) and Title(s): | Not applicable |

# DSG

|  |  |
| --- | --- |
| Target DSG discussion date: | 26/09/2022 |
| Any further information: | Solution option discussed and supported. No further actions. |

# Implementation

|  |  |
| --- | --- |
| Target Release: | 25th March 2023 UK Link Release |
| Status: | Approved  |

Industry Response Detailed Design Review

«RangeStart:HDS»

**Change Representation**

(To be completed by User and returned for response)

|  |  |  |
| --- | --- | --- |
| User Contact Details:  | Organisation:  | «h1\_organisation»  |
| Name:  | «h1\_name»  |
| Email:  | «h1\_email»  |
| Telephone:  | «h1\_telephone»  |
| Representation Status:  | «h1\_userDataStatus»  |
| Representation Publication:  | «h1\_consultation»  |
| Representation Comments:  | «h1\_userDataComments»  |
| Confirm Target Release Date?  | «h1\_targetDate»  | «h1\_userDataAlternative»  |

**Xoserve’ s Response**

|  |  |
| --- | --- |
| Xoserve Response to Organisations Comments:  | «h1\_xoserveResponse»  |

Please send the completed representation response to uklink@xoserve.com

«RangeEnd:HDS»

Change Management Committee Outcome

**ChMC Recommendation – Detailed Design**

|  |  |  |  |
| --- | --- | --- | --- |
| Change Status: | [ ]  Approve | [ ]  Reject | [x]  For information |
| Industry Consultation: | [x]  10 Working Days | [ ]  15 Working Days |
| [ ]  20 Working Days | [ ]  Other [Specify Here] |
| Date Issued: | 16/01/2023 |
| Comms Ref(s): | 3128.3 - VO - PO  |
| Number of Responses: | 0 |
| Solution Voting: | [ ]  Shipper | Please select. |
| [ ]  National Grid Transmission | Please select. |
| [ ]  Distribution Network Operator | Please select. |
| [ ]  IGT | Please select. |
| Meeting Date: | 08/02/2023 |
| Release Date: | NA - Withdrawn |