XRN5142 - New Allowable Values for DCC Service Flag in DXI File From DCC

High Level System Solution
Impact Assessment

Change Overview

XRN5142 - New Allowable Values for DCC Service Flag in DXI File From DCC

The SEC proposal is seeking to remove the allowable values of "S" - Suspended and "W" – Withdrawn and replace them with values of "N" – Non-Active and "I" – Installed Not Commissioned. Therefore, this Change has been raised in parallel to ensure it is aligned in UK Link. The allowable values for the 'DCC Service Flag' data item in the DXI File Format, E46 record, need to be updated to be in line with those proposed by SEC MP077 'DCC Service Flagging'. The new DCC Service Flag states should align to what is written in the SEC and allow Users to tell the difference between Devices on a Smart Metering System (SMS) that are Active, installed but not commissioned or decommissioned.

The SEC proposal is seeking to remove the allowable values of "S" - Suspended and "W" – Withdrawn and replace them with values of "N" – Non-Active and "I" – InstalledNotCommissioned.

Additionally, it is requested that all data using the DCC service values is cleansed for the current data set in the system. This activity will be performed collaboratively with inputs from the DCC.

Solution Options

| 1 | Accept the new allowable 'DCC service flag' values and data cleansing for DCC FLAG - S & W in the system |

Option 1 - High Level Impact Assessment

1 - Accept the new allowable 'DCC service flag' values and data cleansing for DCC FLAG - S & W in the system

SAP ISU:
- Code change to amend the existing validation to check allowable values for field 'DCC_SERVICE_FLAG' for DXI & DXR files.
- Code changes to ensure new values are flowing in S98 record of NMR,NRF, CFR, TRF, MRI, PAC, SNR,CRS & TRS file with B43 record of IDL file.
- New Program to profile & cleanse the existing values DCC_FLAG values 'S' & 'W' with 'N' & 'I' respectively.
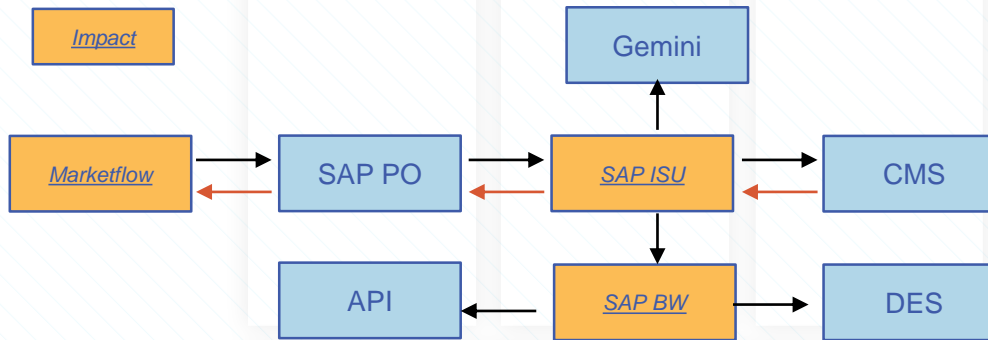
SAP BW/BO/BODS:
- Changes to existing reports to change the filter for existing DCC_FLAG values and ensure new values flow in IQL file via BODS.
- Ensure new values are flowing to DES Portal. No changes envisaged for DES screens, currently

AMT Marketflow:
- File catalogue for DXI, DXR, NMR, NRF, CFR, TRF, MRI, PAC, SNR, CRS, TRS, IDL & IQL file to be amended to store new allowable values for DCC_SERVICE_FLAG.

Impacted Systems					Assumptions

Impacted Systems diagram:

- *Impact*
- *Marketflow* → SAP PO → *SAP ISU* → CMS
- Gemini (connected to SAP ISU)
- API ← *SAP BW* → DES
- *SAP ISU* connected to *SAP BW*

Assumptions:
- AMT Vendor support is required for file format changes
- File format change will be approved prior to start of design phase.
- DCC to provide the service values to be replaced as part of UKLink data cleansing activity.
- UKLink Data profiling and post data cleanse, fallout reporting will be required for the data details received from DCC.
- Currently UKLink system (ISU/BW) do not have any 'S' or 'W' stored for any of the meter points.
- No changes anticipated to DES screens as part of this change.
- Regression impact to be tested for XRN5036 as part of regression testing.
- No changes to any existing validation for DXI file other than the check for allowable values.
- Any impacts to EFT/IX & DDP have not been captured as part of this assessment.
- Change to high level requirements will impact this initial estimate.

Overall Impact	Release Type	High Level Cost Estimate
Large	Major	£120K - £200K

Option 1 - System Impact Assessment

	Reports	Enhancements	Data Migration	AMT Marketflow
System Component:	BW/BO/BODS	SAP ISU	SAP ISU	File Format Changes
Impacted Process Areas:	Enhanced_Portfolio_Report changes Enhanced Registered User Portfolio IQL File from BODS New Values from ISU to BW	SPA	Data Profiling and Cleansing	DXI, DXR NMR,NRF, CFR, TRF, MRI, PAC, SNR,CRS, TRS IDL & IQL
Complexity Level (per RICEFW item):	Medium	Medium	Medium	Low
Change Description:	Report to provide details on sites with **S**easonal ratio has been applied	• Code changes to amend existing validation on DCC_FLAG values • Code changes to ensure the values are flowing to all SPA and iGT files	• Program to cleanse existing Uklink data for S & W values with N & I. • Feed these updated data to SAP BW extractor	• File catalogue change to include new allowable values

	ISU	BW/BO/BODS	DES	AMT Marketflow
Test Data Prep Complexity:	Medium	Low	Low	Medium
Unit and Sys Test Complexity:	Medium	Low	Low	Medium
Pen Test Impact:	Low	N/A	N/A	N/A
Regression Testing Coverage:	High	Medium	N/A	Low
Performance Test Impact:	Y	N	N/A	N
Market Trials:	N	N	N	N
UAT Complexity:	Medium	Medium	Low	Low

Option 1 - Process Impact Assessment

Process Area	Complexity	File Formats	Exceptions	External Screens	Batch Jobs	Performance Test?
SPA	M	Y	N	N	N	Y
Metering (Reads)	n/a / H / M / L	n/a / Y / N	n/a / Y / N	n/a / Y / N	n/a / Y / N	n/a / Y / N
Reconciliation	n/a / H / M / L	n/a / Y / N	n/a / Y / N	n/a / Y / N	n/a / Y / N	n/a / Y / N
Invoicing – Capacity	n/a / H / M / L	n/a / Y / N	n/a / Y / N	n/a / Y / N	n/a / Y / N	n/a / Y / N
Invoicing – Commodity	n/a / H / M / L	n/a / Y / N	n/a / Y / N	n/a / Y / N	n/a / Y / N	n/a / Y / N
Invoicing – Amendment	n/a / H / M / L	n/a / Y / N	n/a / Y / N	n/a / Y / N	n/a / Y / N	n/a / Y / N
Invoicing – Other	n/a / H / M / L	n/a / Y / N	n/a / Y / N	n/a / Y / N	n/a / Y / N	n/a / Y / N
Rolling AQ	n/a / H / M / L	n/a / Y / N	n/a / Y / N	n/a / Y / N	n/a / Y / N	n/a / Y / N
Formula Year AQ	n/a / H / M / L	n/a / Y / N	n/a / Y / N	n/a / Y / N	n/a / Y / N	n/a / Y / N
RGMA	n/a / H / M / L	n/a / Y / N	n/a / Y / N	n/a / Y / N	n/a / Y / N	n/a / Y / N
DSC Service	n/a / H / M / L	n/a / Y / N	n/a / Y / N	n/a / Y / N	n/a / Y / N	n/a / Y / N
Other (BW/BO/BODS)	M	N	N	N	N	N