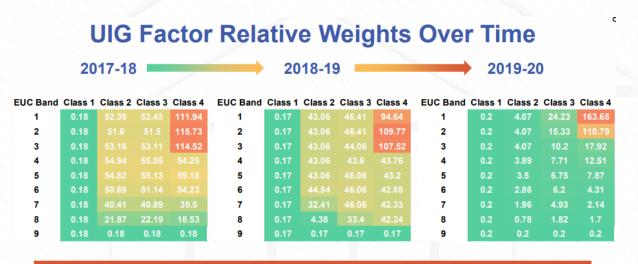
XOserve

MOD0700 - Extraordinary DSG 27th August 2019

AUGE Set new weighting factors for UIG



The 2019-20 step change appears to be the tipping point and triggered Shippers to plan significant migration into Class 3

Extract from Class 3 Supply Point Migration Workshop:

https://www.xoserve.com/news/class-3-supply-point-migration-workshop-actions-and-next-steps/

Impact of weighting factors

- A significant number of class 4 sites in EUC1 and EUC2 that could potentially benefit from moving to a class 3 product.
- Increase in class changes prior to the effective date of change.
- Class 3 sites are daily read and therefore could increase the number of daily reads.
- This could impact UK Link and it's ability to process the reads.

MOD0700

- MOD0700 has been introduced to look at implementing changes to minimise impact of mass migration of EUC 1 Supply Points into Class 3 product, specifically:
 - Number of class changes processed
 - Number of reads being processed through to read validation

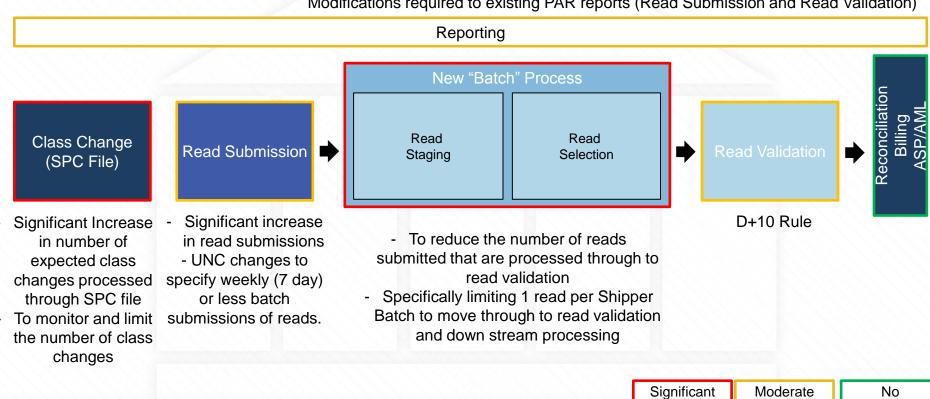
Scope of MOD700 Requirements

Modifications required to existing PAR reports (Read Submission and Read Validation)

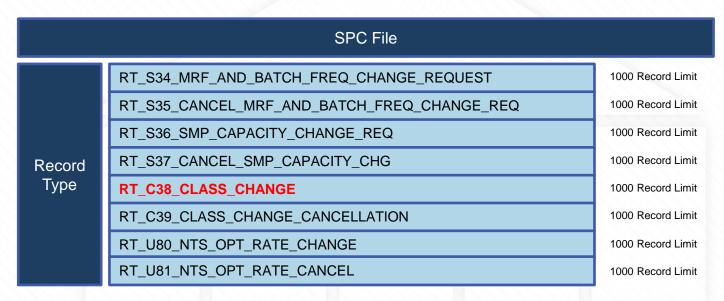
Change

Change

Change



Class Change - SPC File

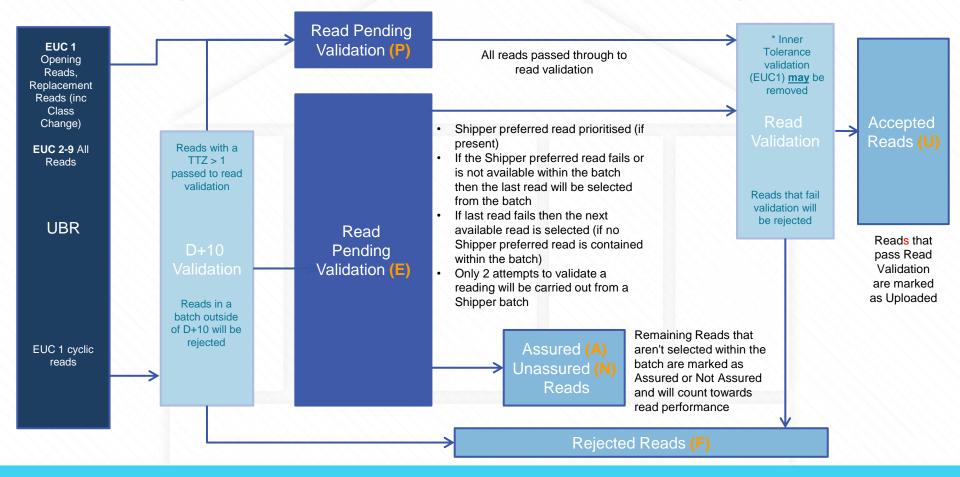


- The above provides a view of the SPC file structure
- Each record type has a limit of 1000 records, meaning the maximum number of records within a single SPC file is 8,000 if all allowable record were utilised (FIL000018)
- Vast majority of records contained within a BAU SPC file are C38's (Class Change)
- SPC file max processing capacity is currently set at 26,000 within the UK Link IS Service Definition document

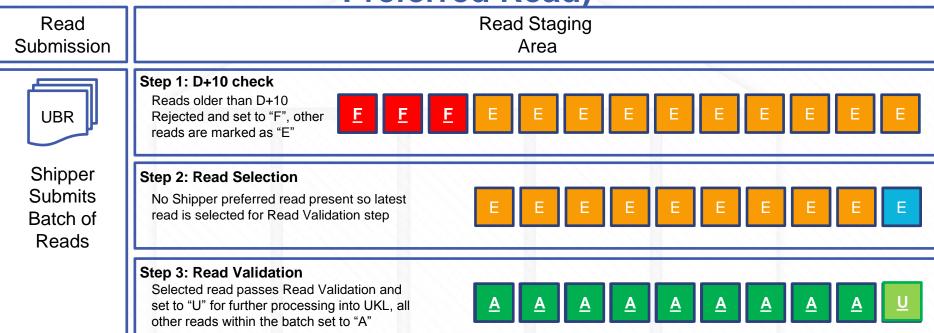
How to Determine SPC Limit?

- The method for defining the limit it not yet confirmed but will need to take into consideration the following:
 - Processing of SPC files for non class change activities (so not effected by MOD700)
 - Max number of SPC files that can be processed though AMT and SAP ISU
 - Customer forecasts for class changes currently being provided to Customer Advocates, 2 way communication regarding peek system times will also take place
- Please also note:
 - Files that pass AMT validation but result in breach of allocation shall be rejected back to the submitting Shipper, however the mechanism for this has not yet been agreed (Email or UK Link Communication (IX))
 - Likely that SPC max submissions within the UK Link IS Service Definition document will be increased, however this has not yet been agreed

Read Submission to Read Validation Overview



Scenario 1a: First Read Accepted (No Shipper Preferred Read)



F = Rejected

E = Pending for Upload

U = Uploaded/Accepted

A = Assured

Scenario 1b: Shipper Preferred Read Accepted

Read Read Staging Submission Area Step 1: D+10 check Reads older than D+10 **UBR** Rejected and set to "F", other reads are marked as "E" Shipper **Step 2: Read Selection** Submits Shipper preferred read is selected for Read Validation step Batch of Reads Step 3: Read Validation Selected read passes Read Validation and set to "U" for further processing into UKL, all other reads within the batch set to "A"

F = Rejected

E = Pending for Upload

U = Uploaded/Accepted

A = Assured

Scenario 2a: First Read Failed, Second Read Accepted

Read Read Staging Submission Area Step 1: D+10 check Reads older than D+10 UBR Rejected and set to "F", other reads are marked as "E" Shipper **Step 2: Read Selection Submits** No Shipper preferred read present so latest read is selected for Read Validation step Batch of Reads

Step 3: Read Validation

Selected read fails Read Validation "F", next read passes and is set to "U" for further processing into UKL, all other reads within the batch set to "A"



F = Rejected

E = Pending for Upload

U = Uploaded/Accepted

A = Assured

Scenario 2b: First Read Failed (Shipper Preferred), **Second Read Accepted**

Read Submission

Read Staging Area



Shipper **Submits** Batch of Reads

Step 1: D+10 check

Reads older than D+10 Rejected and set to "F", other reads are marked as "E"





















Step 2: Read Selection

Shipper preferred read is selected for Read Validation step





















Step 3: Read Validation

Selected read fails Read Validation "F", next read passes and is set to "U" for further processing into UKL, all other reads within the batch set to "A"



















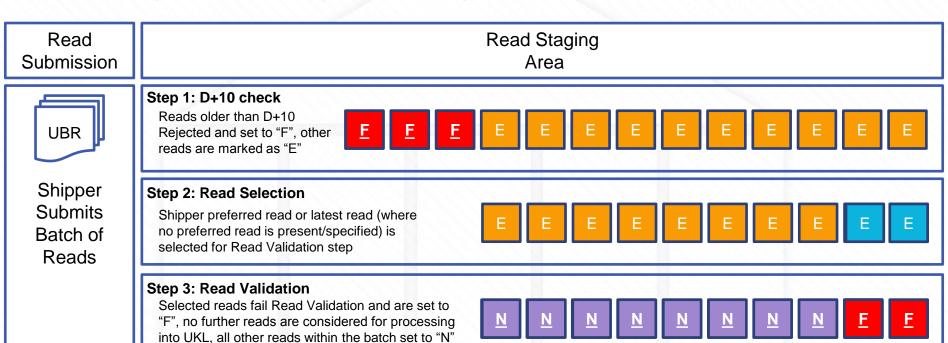
F = Rejected

E = Pending for Upload

U = Uploaded/Accepted

A = Assured

Scenario 3: Both Selected Reads Fail



F = Rejected

E = Pending for Upload

U = Uploaded/Accepted

A = Assured

Scenario 4: Both Selected Reads Fail, Batch Re-Submitted, Read Accepted

Read Submission

Read Staging Area



Shipper Re-**Submits** Batch of Reads (D+3)

Step 1: D+10 check

Reads older than D+10 Rejected and set to "F", other reads are marked as "E"

























Step 2: Read Selection

Shipper preferred read or latest read (where no preferred read is present/specified) is selected for Read Validation step















Step 3: Read Validation

Selected reads fail Read Validation and are set to "F", no further reads are considered for processing into UKL, all other reads within the batch set to "N"













F = Rejected

E = Pending for Upload

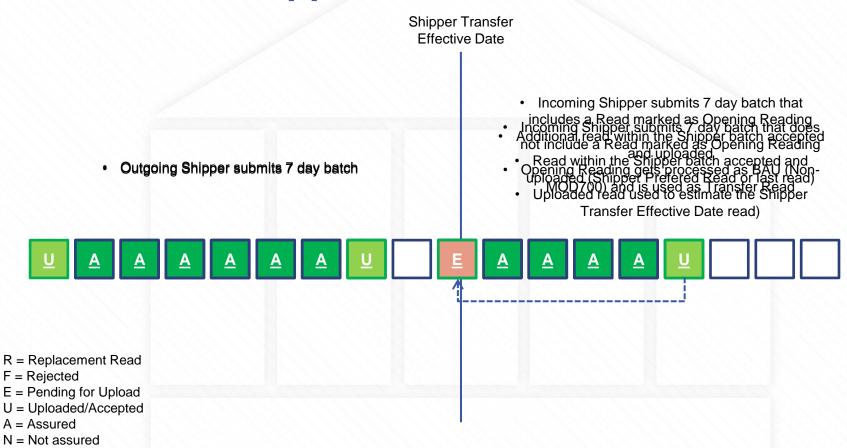
U = Uploaded/Accepted

A = Assured

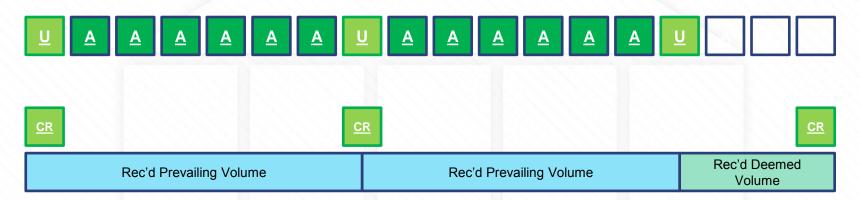
Class Change Scenario

Shipper Class Change Class 4 Class 3 CDSP estimates a read for the date of Class. Shipper submits a Class 4 reading via UMR File Change Effective Date (as per BAU) Shipper submits 7 day batch and are processed within rules of MOD700 (estimate stands, read on the class change effective date set to assured) Shipper submits Replacement Read to replace the **Opening Reading** Replacement Read processed outside of MOD700 as priority R = Replacement Read F = Rejected E = Pending for Upload U = Uploaded/Accepted A = Assured

Shipper Transfer Scenario



Check to Check Scenario



Check to Check Reconciliation will be based on the prevailing volume where a Cyclic Read has been received, however where the read which matches the Check read has been marked as Assured or None Assured then this period will be based on Allocated Volumes. This follows normal processing when a Cyclic Read has not been provided for the same date as the Check Read (Check Reads can be submitted up to M+10)

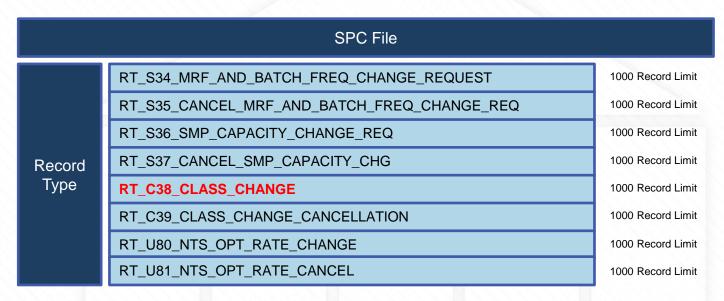
Once a Check Read has been processed, the Deemed profile is set and cannot be amended and this may not follow actual offtake for the days covered

U = Uploaded/Accepted A = Assured CR = Check Read

XX>serve

MOD0700 - DSG 2nd September 2019

Class Change - SPC File



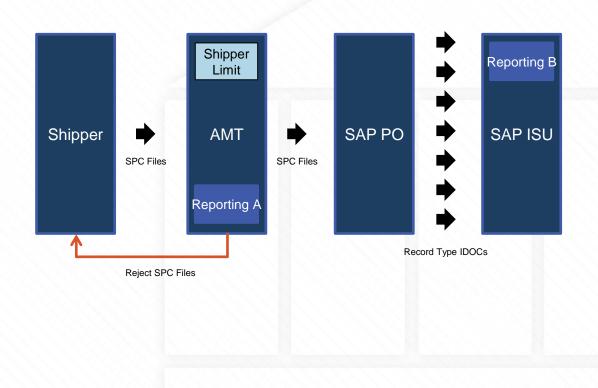
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- Vast majority of records contained within a BAU SPC file are C38's (Class Change)
- SPC file max processing capacity is currently set at 26,000 within the UK Link IS Service Definition document

Options Considered

#	Options	Comments
1	Set a shipper limit on SPC files (e.g. 5 files into AMT per shipper, per day)	 Provides control over the number of SPC files being submitted. Relatively simple build and can be delivered within project timescales. Minimal impact to AMT performance.
2	Set a shipper limit on SPC – Class Change Records (e.g. 1,000 records into AMT per shipper, per day)	 Provides control over the number of SPC records being submitted. Complex build that could not be achieved within project timescales Greater cost and performance requirements for AMT for an interim solution.
3	Leave as-is and monitor through customer engagement.	 Option relies entirely on forecasts being provided. CDSP has no current technical capability to reject files and would require manual intervention with email rejections.

The approach is to proceed with option 1.

Option 1: Shipper Limit SPC Files



- Modification in AMT to set a limit per shipper for the number of SPC files.
- If a file is sent above the SPC limit it may be rejected using the proposed file rejection code FIL000018.
- As an exception files may be rejected via email.
- Xoserve will have the capability to report on number of files sent and records received in AMT & SAP ISU.

Rejection Codes

ID	Rejection Description	
FIL00010	File contains no records	
FIL00011	Record contains incorrectly formatted data	
FIL00012	Records are not in the expected order	
FIL00013	Organisation Id on the Header cannot be found	
FIL00014	Organisation Id on the Header does not match the Sender's Id in the File Name	
FIL00015	File Type on the Header is not the same as that in the File Name	
FIL00016	Generation Number on the Header is not the same as that in File Name	
FIL00017	A file with this Generation Number has already been received and successfully processed	
FIL00018	A physical count of the Detail Records in the File does not match that held in the count field on the Trailer	
FIL00019	Invalid Record Type found	
FIL00023	Generation number in filename is not numeric	
FIL00024	Invalid sub-record transaction type for high-level record transaction type	
FIL00020	No Valid Message - File contains incorrectly formatted records	
FIL00124	File rejected and will not be processed	