



XRN4931 - Submission of a Space in Mandatory Data on Multiple SPA files

High Level System Solution
Impact Assessment

Change Overview

XRN4931 - Submission of a Space in Mandatory Data on Multiple SPA Files

It has been brought to our attention that Shippers have been submitting files (e.g. MSI, EMC & CNF) with a “space” value populated in mandatory fields instead of the required allowable value (e.g. Y/N). As Space is allowable ASCII value, AMT has not rejected the inbound file as it considers this satisfactory that a value has been provided for a mandatory data item, however, once SAP has carried out its lower level validation (as it is expecting a different value e.g. Y/N) it is unable to ‘play back’ the data in the appropriate rejection file due to it not recognising a “space” to populate. The mandatory data item is therefore not being populated so the outbound rejection file is being rejected by AMT as not having all mandatory data items present.

Solution Options

1

Changes in SAP PO config to send default values recognised by AMT - **3 Files**

2

Changes in SAP ISU to update IDOC to send default values recognised by AMT - **3 Files**

3

Changes in PO config to send default values recognised by AMT - **40 Files (approx.)**

4

Changes in SAP ISU to update IDOC to send default values recognised by AMT - **40 Files (approx.)**

Option 1 - High Level Impact Assessment

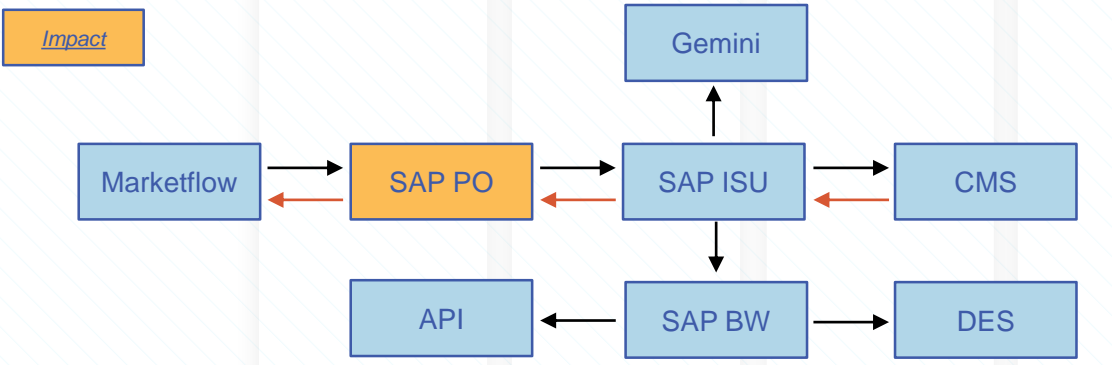
1

Option 1 - Changes in SAP PO config to send default values recognised by AMT - 3 Files

Solution Description: In order to play back the inbound file data including 'Space' to AMT, SAP PO changes are required to send default values accordingly. If Shipper does not send any value in the mandatory field, then SAP ISU will send outbound rejection file and SAP PO should send its default value to Marketflow. Marketflow does not need any changes and will recognize the value as space not blank. Change Summary:

1. SAP PO Outbound file message mapping changes (3 Files)

Impacted Systems



Assumptions

- PO Mapping changes are only required for mandatory text fields
- PO changes are only required for Outbound files
- Three files has been considered MSO, CTR and CFR

Overall Impact

Low

Release Type

Minor

High Level Cost Estimate

15,000 - 20,000 GBP

Option 1 - System Impact Assessment

	Reports	Interface	Conversion	Enhancements	Forms	Workflow	Data Migration
System Component:		SAP PO					
Impacted Process Areas:		SPA					
Complexity Level (per RICEFW item):		Low					
Change Description:		Need to modify message mapping in PO					

	ISU	BW	PO / Marketflow	DES	CMS	AMT	API
Test Data Prep Complexity:	Medium		N/A			N/A	
Unit and Sys Test Complexity:	Low		Low			Low	
Pen Test Impact:	No		No			No	
Regression Testing Coverage:	Low		Low			Medium	
Performance Test Impact:	No		No			No	
Market Trials:	No		No			No	
UAT Complexity:	Low		Low			Medium	

Option 1 - Process Impact Assessment

Process Area	Complexity	File Formats	Exceptions	External Screens	Batch Jobs	Performance Test?
SPA	Low	No	No	No	No	No
Metering (Reads)	n/a	n/a	n/a	n/a	n/a	n/a
Reconciliation	n/a	n/a	n/a	n/a	n/a	n/a
Invoicing – Capacity	n/a	n/a	n/a	n/a	n/a	n/a
Invoicing – Commodity	n/a	n/a	n/a	n/a	n/a	n/a
Invoicing – Amendment	n/a	n/a	n/a	n/a	n/a	n/a
Invoicing – Other	n/a	n/a	n/a	n/a	n/a	n/a
Rolling AQ	n/a	n/a	n/a	n/a	n/a	n/a
Formula Year AQ	n/a	n/a	n/a	n/a	n/a	n/a
RGMA	n/a	n/a	n/a	n/a	n/a	n/a
DSC Service	n/a	n/a	n/a	n/a	n/a	n/a
Other (Specify)	n/a	n/a	n/a	n/a	n/a	n/a

Option 2 - High Level Impact Assessment

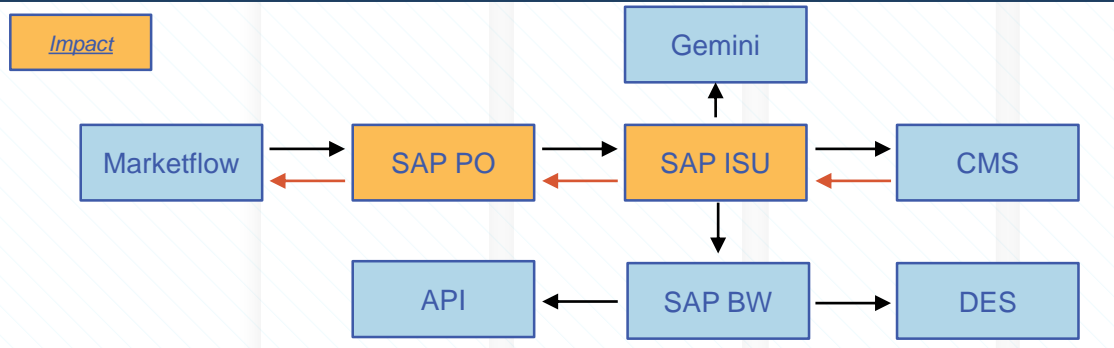
Option 2 - Changes in SAP ISU to update IDOC to send default values recognised by AMT - 3 Files

Solution Description: Currently SAP does not show IDOC Inbound/Outbound data where a field is blank, changes will be made in SAP ISU to show mandatory text fields with blank values in IDOCS and SAP PO file message mapping changes are required to send default values to AMT. Marketflow does not need any changes and will recognize the value as space not blank.

Change Summary:

1. SAP PO Outbound file message mapping changes (3 files)
2. SAP ISU Idoc display changes for both Inbound & Outbound files (3 files)

Impacted Systems



Assumptions

- PO Mapping changes are only required for mandatory fields
- PO changes are only required for Outbound rejection files
- SAP ISU Idoc display changes only required for mandatory text fields
- SAP ISU changes are required for both Inbound & Outbound and is one time change irrespective of any file type.
- Three files has been considered MSO, CTR and CFR

Overall Impact	Release Type	High Level Cost Estimate
Medium	Major	20,000 - 25,000 GBP

Option 2 - System Impact Assessment

	Reports	Interface	Conversion	Enhancements	Forms	Workflow	Data Migration
System Component:		SAP ISU/SAP PO		SAP ISU			
Impacted Process Areas:		SPA		SPA			
Complexity Level (per RICEFW item):		Medium		Medium			
Change Description:		Need to modify message mapping in PO		Need enhancement in SAP ISU for Idoc display to show mandatory text fields with blank data.			

	ISU	BW	PO / Marketflow	DES	CMS	AMT	API
Test Data Prep Complexity:	Medium		N/A			N/A	
Unit and Sys Test Complexity:	Low		Low			Low	
Pen Test Impact:	No		No			No	
Regression Testing Coverage:	Low		Low			Medium	
Performance Test Impact:	No		No			No	
Market Trials:	No		No			No	
UAT Complexity:	Low		Low			Medium	

Option 2 - Process Impact Assessment

Process Area	Complexity	File Formats	Exceptions	External Screens	Batch Jobs	Performance Test?
SPA	Medium	No	No	No	No	No
Metering (Reads)	n/a	n/a	n/a	n/a	n/a	n/a
Reconciliation	n/a	n/a	n/a	n/a	n/a	n/a
Invoicing – Capacity	n/a	n/a	n/a	n/a	n/a	n/a
Invoicing – Commodity	n/a	n/a	n/a	n/a	n/a	n/a
Invoicing – Amendment	n/a	n/a	n/a	n/a	n/a	n/a
Invoicing – Other	n/a	n/a	n/a	n/a	n/a	n/a
Rolling AQ	n/a	n/a	n/a	n/a	n/a	n/a
Formula Year AQ	n/a	n/a	n/a	n/a	n/a	n/a
RGMA	n/a	n/a	n/a	n/a	n/a	n/a
DSC Service	n/a	n/a	n/a	n/a	n/a	n/a
Other (Specify)	n/a	n/a	n/a	n/a	n/a	n/a

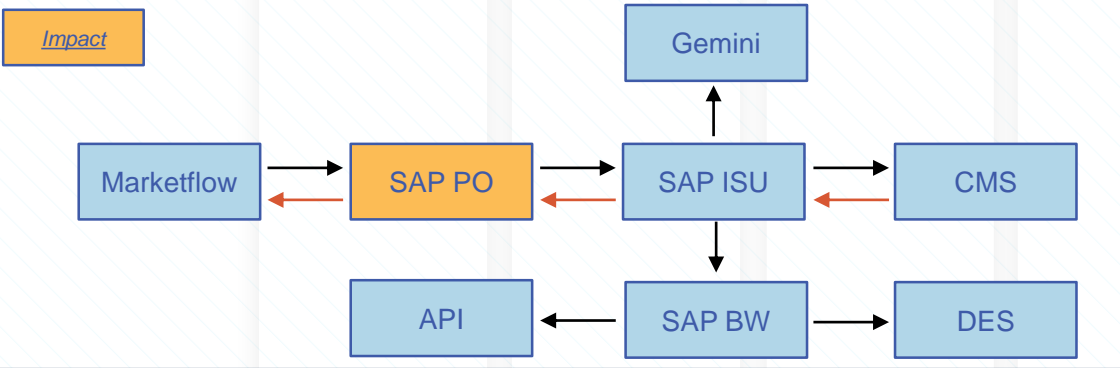
Option 3 - High Level Impact Assessment

Option 3 - Changes in PO config to send default values recognised by AMT - 40 Files (approx.)

Solution Description : In order to play back the inbound file data including 'Space' to AMT, SAP PO changes are required to send default values accordingly. If Shipper does not send any value in the mandatory field, then SAP ISU will send outbound rejection file and SAP PO should send its default value to Marketflow. Marketflow does not need any changes and will recognize the value as space not blank. Change Summary:

1. SAP PO Outbound file message mapping changes (approx. 40 files)

Impacted Systems



Assumptions

- PO Mapping changes are only required for mandatory text fields
- PO changes are only required for Outbound files

Overall Impact	Release Type	High Level Cost Estimate
Low	Major	60,000 - 70,000 GBP

Option 3 - System Impact Assessment

	Reports	Interface	Conversion	Enhancements	Forms	Workflow	Data Migration
System Component:		SAP PO					
Impacted Process Areas:		SPA					
Complexity Level (per RICEFW item):		Low					
Change Description:		Need to modify message mapping in PO					

	ISU	BW	PO / Marketflow	DES	CMS	AMT	API
Test Data Prep Complexity:	Medium		N/A			N/A	
Unit and Sys Test Complexity:	Low		Low			Low	
Pen Test Impact:	No		No			No	
Regression Testing Coverage:	Low		Low			Medium	
Performance Test Impact:	No		No			No	
Market Trials:	No		No			No	
UAT Complexity:	Low		Low			Medium	

Option 3 - Process Impact Assessment

Process Area	Complexity	File Formats	Exceptions	External Screens	Batch Jobs	Performance Test?
SPA	Low	No	No	No	No	No
Metering (Reads)	n/a	n/a	n/a	n/a	n/a	n/a
Reconciliation	n/a	n/a	n/a	n/a	n/a	n/a
Invoicing – Capacity	n/a	n/a	n/a	n/a	n/a	n/a
Invoicing – Commodity	n/a	n/a	n/a	n/a	n/a	n/a
Invoicing – Amendment	n/a	n/a	n/a	n/a	n/a	n/a
Invoicing – Other	n/a	n/a	n/a	n/a	n/a	n/a
Rolling AQ	n/a	n/a	n/a	n/a	n/a	n/a
Formula Year AQ	n/a	n/a	n/a	n/a	n/a	n/a
RGMA	n/a	n/a	n/a	n/a	n/a	n/a
DSC Service	n/a	n/a	n/a	n/a	n/a	n/a
Other (Specify)	n/a	n/a	n/a	n/a	n/a	n/a

Option 4 - High Level Impact Assessment

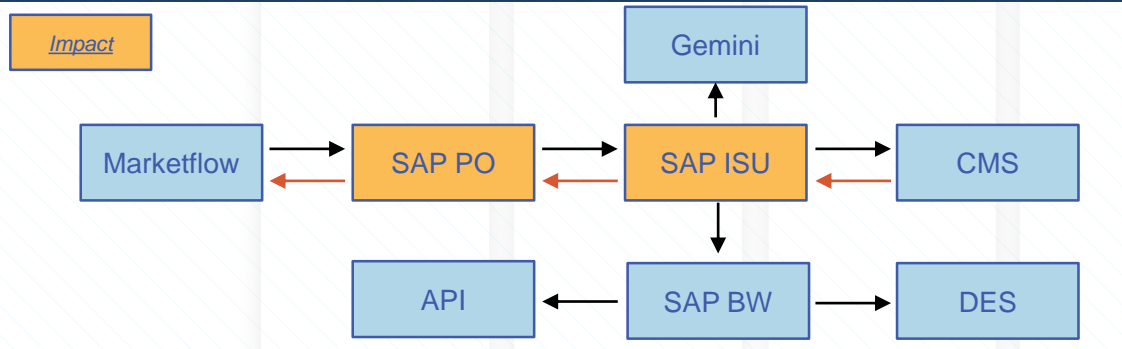
Option 1- Changes in SAP ISU with no conversion and PO config to send default values recognised by AMT

Solution Description: Currently SAP does not show IDOC Inbound/Outbound data where a field is blank, changes will be made in SAP ISU to show mandatory text fields with blank values in IDOCS and SAP PO file message mapping changes are required to send default values to AMT. Marketflow does not need any changes and will recognize the value as space not blank.

Change Summary:

1. SAP PO Outbound file message mapping changes
2. SAP ISU Idoc display changes for both Inbound & Outbound files

Impacted Systems



Assumptions

- PO Mapping changes are only required for mandatory fields
- PO changes are only required for Outbound rejection files
- SAP ISU Idoc display changes only required for mandatory text fields
- SAP ISU changes are required for both Inbound & Outbound and is one time change irrespective of any file type.

Overall Impact	Release Type	High Level Cost Estimate
Medium	Major	70,000 - 80,000 GBP

Option 4 - System Impact Assessment

	Reports	Interface	Conversion	Enhancements	Forms	Workflow	Data Migration
System Component:		SAP ISU/SAP PO		SAP ISU			
Impacted Process Areas:		SPA		SPA			
Complexity Level (per RICEFW item):		Medium		Medium			
Change Description:		Need to modify message mapping in PO		Need enhancement in SAP ISU for Idoc display to show mandatory text fields with blank data.			

	ISU	BW	PO / Marketflow	DES	CMS	AMT	API
Test Data Prep Complexity:	Medium		N/A			N/A	
Unit and Sys Test Complexity:	Low		Low			Low	
Pen Test Impact:	No		No			No	
Regression Testing Coverage:	Low		Low			Medium	
Performance Test Impact:	No		No			No	
Market Trials:	No		No			No	
UAT Complexity:	Low		Low			Medium	

Option 4 - Process Impact Assessment

Process Area	Complexity	File Formats	Exceptions	External Screens	Batch Jobs	Performance Test?
SPA	Medium	No	No	No	No	No
Metering (Reads)	n/a	n/a	n/a	n/a	n/a	n/a
Reconciliation	n/a	n/a	n/a	n/a	n/a	n/a
Invoicing – Capacity	n/a	n/a	n/a	n/a	n/a	n/a
Invoicing – Commodity	n/a	n/a	n/a	n/a	n/a	n/a
Invoicing – Amendment	n/a	n/a	n/a	n/a	n/a	n/a
Invoicing – Other	n/a	n/a	n/a	n/a	n/a	n/a
Rolling AQ	n/a	n/a	n/a	n/a	n/a	n/a
Formula Year AQ	n/a	n/a	n/a	n/a	n/a	n/a
RGMA	n/a	n/a	n/a	n/a	n/a	n/a
DSC Service	n/a	n/a	n/a	n/a	n/a	n/a
Other (Specify)	n/a	n/a	n/a	n/a	n/a	n/a