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| Guide to PoC Transition Tool (DRAFT) | | | |
|  | | | |
| asexml file transformation | | | | |
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Glossary

Abbreviations and Symbols

| Abbreviation | Abbreviation explanation |
| --- | --- |
| AEMO | Australian Energy Market Operator |
| AEST | Australian Eastern Standard Time |
| CUST | Customer Data (Transaction Group) |
| EMMS | [wholesale] Electricity Market Management System; software, hardware, network and related processes to implement the National Electricity Market (NEM) |
| MACK | Message Acknowledgment |
| MSATS | [retail electricity] Market Settlement and Transfer Solution |
| MTRD | Meter Data (Transaction Group) |
| NEM | National Electricity Market |
| NER | National Electricity Rules; also often just called the Rules |
| NMI | [electricity] National Metering Identifier |
| OWNP | One Way Notification (Transaction Group) |
| PoC | Power of Choice |
| SITE | Site Data (Transaction Group) |
| SORD | Service Orders (Transaction Group) |

Special terms

|  |  |
| --- | --- |
| Term | Definition |
| .ack | Acknowledge file extension |
| .ac1 | Hub Acknowledgement file extension for FTP |
| Market time | Australian Eastern Standard Time |
| Participant ID | Registered participant identifier |
| Rules | National Electricity Rules |

# Introduction

## Purpose

This guide describes the setup, configuration, and operation of the Power of Choice (PoC) Transition Tool.

## Audience

This document is relevant to registered NEM Retailers’ technical and software development staff who are responsible for systems implementation.

This guide assumes you have knowledge of:

* The Java application environment.
* The operating system your organisation is using.
* How the NEM systems operate.

## How to use this guide

* The references listed throughout this document are primary resources and take precedence over this document.
* Text in this format, indicates a reference to a document on [AEMO’s website](http://www.aemo.com.au).
* This document is written in plain language for easy reading. Where there is a discrepancy between the Rules and information or a term in this document, the Rules take precedence.
* Glossary Terms are capitalised and have the meanings listed against them.
* *Italicised terms* are defined in the Rules. Any rules terms not in this format still have the same meaning.
* For an explanation of abbreviations or special terms, see the Glossary.

## What is in this guide

* Chapter 1 “Introduction” describes what the guide is about, the intended audience, and pre-requisite knowledge.
* Chapter 2 “Overview” explains the PoC Transition Tool’s features and functions.
* Chapter 3 “Setup” explains how to setup and configure the PoC Transition Tool as a batch file application or Windows Service.
* Chapter 4 “Configuration options” explains how to customise the PoC Transition Tool’s file directory structure, filter masks, and properties file.
* Chapter 5 “Operations” describes the process to transform aseXML files, tool maintenance, and troubleshooting information.
* Chapter 6 “Needing Help” provides guidance for requesting assistance from AEMO.
* Appendix A “Properties file parameters” lists configurable parameters in the PoC Transition Tool’s properties file.
* Appendix B “Transaction Type validation” maps r32 and r36 aseXML Transaction Types for translation.
* Appendix C “Transformation rules” describes the mapping rules for transforming r32 files to r36 files and vice versa.

## Conventions

Directory and file path examples in this guide use “\” to denote UNIX and Windows path separators, even though the UNIX convention is to use the “/” separator. Where applicable, substitute the “\” separator for the “/” separator.

## Related Resources

* [PoC Transition Tool](http://aemo.com.au/Electricity/National-Electricity-Market-NEM/Power-of-Choice/TransitionTool)
* [Java SE download](http://www.oracle.com/technetwork/java/javase/downloads/index.html)
* [Business-to-business procedures](http://aemo.com.au/Electricity/National-Electricity-Market-NEM/Retail-and-metering/Business-to-business-procedures)

# Overview

## What the software is for

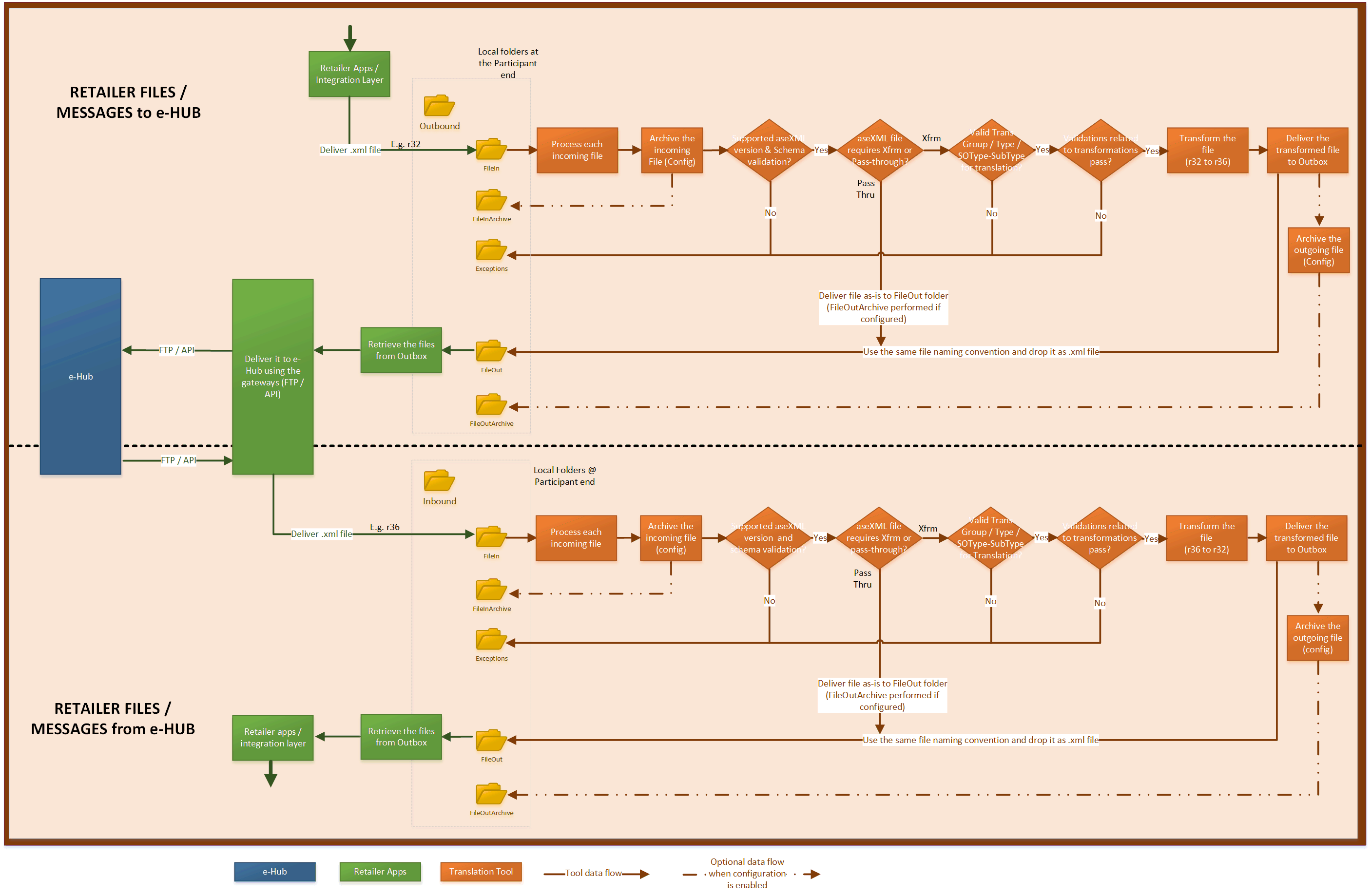
aseXML schema version r36 introduces a number of changes from version r32. AEMO have produced the PoC Transition Tool to help transition to schema version r36. If your systems are compliant with aseXML schema version r36, including the ability to send and receive B2B transactions, this application is not required.

The PoC Transition Tool is a standalone application that translates and transforms aseXML files in .xml or .ack format - B2B r32 files to r36 files to send to the e-Hub, and converting B2B r36 files received from the e-Hub to r32 files. Transformations are limited to the most commonly used Transaction Types.

The application is designed to be deployed within the participant’s system prior to their gateway as shown in Figure 1. You should ensure the participant gateway is r36 compliant to send and receive r36 files, and manage MACK and cleansing of .zip and .ack files.

The e-Hub will not support transformation between r36 and superseded versions, and vice-versa from 1 December 2017.

1. PoC Transition Tool context diagram



The application can run multiple threads, and allows each thread to be configured to move a subset of aseXML files between directories in local directories.

The software provides the following functions:

* XML schema validation.
* Translate and transform B2B Transaction Groups: Customer Details (CUST), Site Details (SITE), Service Orders (SORD), and Meter Data (MTRD).
* Translate and transform Inbound B2B Transaction Groups: Service Order Response, Amend Meter Route Details, Customer Details Request, Meter Data Notification, Message Acknowledgement, and Transaction Acknowledgement.
* Translate and transform Outbound Transaction Types: Meter Data Missing Notification, Meter Data Verify Request, Customer Details Notification, Service Order Request, Amend Meter Route Details, Message Acknowledgement, and Transaction Acknowledgement.

Note, the application does not:

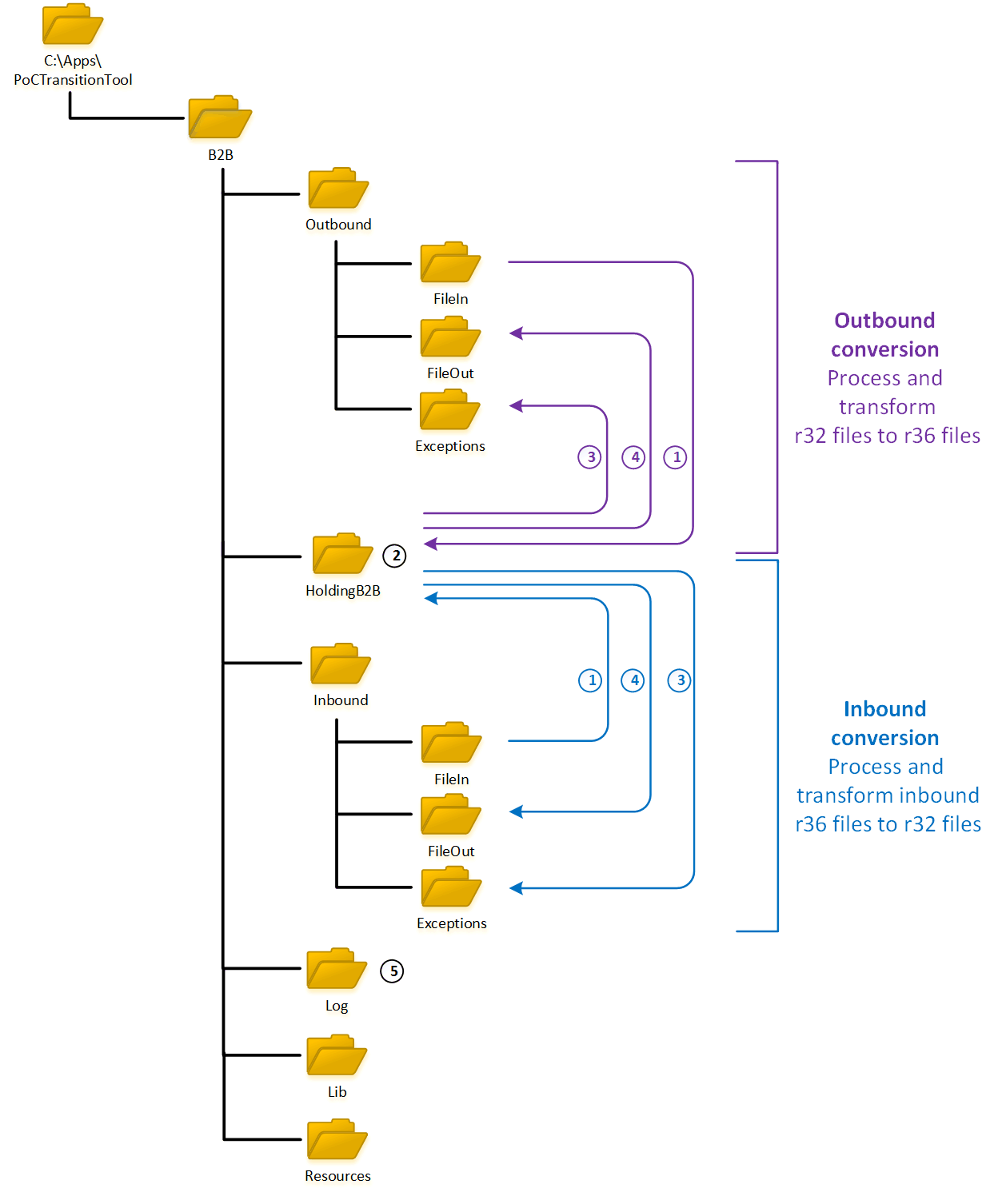
* Generate message acknowledgements of inbound aseXML files.
* Generate transaction acknowledgements of inbound aseXML files.
* Remote file transfers to *B2B e-Hub*.
* Perform file validation that the e-Hub applies.
* Support r25 to r36 transformation or r36 to r25 transformation.

## How do you use the software?

The PoC Transition Tool provides and operates in a local directory structure “B2B”, and includes the following subdirectories:

* HoldingB2B - a shared directory for storing and processing temporary Outbound and Inbound source aseXML files.
* Inbound - input and output directories, file archive directories, exceptions directory, and error log files for r36 to r32 file transformation, and r25 and r32 file schema validation.
* Lib - configuration files and the executable files to run the application.
* Log - Inbound and Outbound log files.
* Outbound - input and output directories, file archive directories, exceptions directory, and error log files for r32 to r36 file transformation, and r36 file schema validation.
* Resources – stores aseXML schemas and stylesheets.

1. PoC Transition Tool directory



An example of the PoC Transition Tool transforming r32 files to r36 files and vice versa is shown in Figure 2 and described below:

1. Polls and searches for .xml, .ack file format — r32 files in the Outbound FileIn input directory, and r36 files in the Inbound FileIn input directory.
2. Source files are temporarily copied to a “HoldingB2B directory” for validation and processing.
3. If the source file fails validation tests, the Inbound source file is moved to the “Exceptions” directory with a TT\_Error\_Inbound.log file generated in the “Inbound” directory, or Outbound source file is moved to the Exceptions directory with a TT\_Error\_Outbound.log error message in the Outbound directory. The previous day’s log files are automatically renamed using the filename format TT\_Error\_Outbound-YYYY-MM-DD.log and TT\_Error\_Inbound-YYYY-MM-DD.log.
4. If the source file passes transformation validation tests, r32 files are transformed to r36 files (Outbound), and r36 files are transformed to r32 files (Inbound). r36 transformed files move to the Outbound FileOut directory, and transformed r32 files move to the Inbound FileOut directory. Source files are deleted from the FileIn directory.
5. Root logger files are located in the Log subdirectory as PoCTT.log for the current day’s log file, and PoCTT-YYYY-MM-DD.log format for previously generated files.

The PoC Transition Tool can also perform schema validation on other aseXML versions. r36 files can be validated by moving the files in the Outbound FileIn input directory; r25 and r32 files can be validated by moving the files to the Inbound FileIn input directory. The tool can manage these aseXML versions by passing the file as-is (after validating the XML schema) from the input directory to output directory.

You can configure the application to suit your requirements, including modifying the directory structure, adding multiple threads and filters to prioritise file translation and transformation. For more details, see Configuration options.

## System requirements

The recommended system requirements to run the PoC Transition Tool are listed below.

### Operating system

* Microsoft Windows Server 2012 or later, or
* UNIX operating system.

### Software

* Java Development Kit (JDK) 8 or later.
* Java Runtime Environment (JRE) 8 or later.

### System environment

* Connectivity to local file directories.

# Setup

## Download and configure the PoC Transition Tool

The following procedure explains how to download and set up the application on Windows and UNIX operating systems. Please ensure all Window directory names not include spaces.

1. Download the PoC Transition Tool from <http://aemo.com.au/Electricity/National-Electricity-Market-NEM/Power-of-Choice/TransitionTool>.
2. Extract the zip file contents into a local directory. A directory (B2B) is created with five subdirectories: Holding B2B, Inbound, Lib, Log, Outbound, and Resources.
3. Edit the B2B\Lib\pocTTEnvironment.bat file (Windows) or B2B/Lib/pocTTEnvironment.sh file (UNIX) to ensure the JRE path variable references the directory path where the JRE executable file is installed on your system. For example, in pocTTEnvironment.bat:

set JRE=C:\Program Files\Java\jre1.8.0\_101\

set PATH=%JRE%\bin;%PATH%

1. For UNIX, in all.sh files, change Windows line endings (\r\n) to UNIX line endings (\n) in in order to execute the .sh file as a bash script.
2. Edit the poc\_log4J\_TransitionTool.xml configuration file, and check the installation-directory parameter specifies the B2B directory location. For example:

<Property name="installation-directory">C:/apps/PoCTransitionTool/B2B</Property>

1. Edit the B2B\Lib\pocTransitionTool.properties file and if required, customise the directory structure and other properties. For more information, see Configure global and thread properties.
2. For UNIX operating systems, request a system administrator to create a daemon process to call the pocTransitionTool.sh shell script in PoCTransitionTool/B2B/Lib.

For UNIX operating systems, the shell scripts provided are samples and not a recommendation or requirement. The design and implementation of the application is dependent upon your system and business requirements.

### Lib directory contents

The Lib directory contains the following files to run the PoC Transition Tool:

* Required JAR files.
* Two properties files (pocTransitionTool.properties, pdr\_log4j-TransitionTool.xml) that provide parameters for the running instance.
* pocTransitionTool.bat file to run the application in Windows.
* pocTransitionTool.sh file to run the application in Unix operating systems.
* pocTTEnvironment.bat file and pocTTEnvironment.sh containing the required environment variable definitions to run the application.
* Five files (pdrServiceInstall.bat, pdrServiceUninstall.bat, WinRun4J.jar, WinRun4J.exe, WinRun4J64.exe and WinRun4J.ini) to support the running of the application as a Windows service.
* Other .bat, .sh files (e.g. pdrPasswordEncrypt.bat) and property files to manage keys/passwords when file transfers are used instead of mapped directories (additional feature of the tool)

### Remove the application

To remove the application, delete the \apps\PoCTransitionTool directory.

## Windows service setup

There are a variety of commercial and open source solutions allowing Java applications to run as a Windows service. The application includes a configuration for an open source solution to demonstrate how running the PoC Transition Tool as a Windows service is achieved. The example software is 32-bit, and therefore requires 32-bit Java. Participants need to adapt this example to their choice of software.

The distribution includes five files to run the application as a Windows service:

* pdrServiceInstall.bat installs a Java application as a Windows service.
* pdrServiceUninstall.bat removes a Java application running as a Windows service.
* WinRun4J.exe is a 32-bit Windows wrapper for the 32-bit JRE.
* WinRun4J64.exe is a 64-bit Windows wrapper for the 64-bit JRE.
* WinRun.ini is a configuration file that defines parameters for creating the Windows service.

### Install the application as a Windows service

To install the PoC Transition Tool as a Windows service:

1. Edit the PoCTransitionTool\B2B\Lib\WinRun4J.ini file, define the Windows service name in the service.id parameter, and update the vm.location parameter with the jvm.dll file location. For example:

service.id=pocTransitionTool

.

.

.

vm.location=C:\Program Files\Java\jre1.8.0\_101\bin\server\jvm.dll

1. Edit the pdrServiceInstall.bat file and update the HOME and JRE environment variables to suit your environment. For example:

set HOME=C:\apps\PoCTransitionTool\B2B

set JRE=C:\Program Files\Java\jre1.8.0\_101

Note: Check that you have specified an absolute file path otherwise the application will not operate.

1. From the command line in the PoCTransitionTool\B2B\lib directory, run the pdrServiceInstall.bat file including a name for the Windows service. For example:

pdrServiceInstall.bat pocTransitionTool

1. Check the Windows service for the pocTransitionTool service. From the Start prompt, run the Services program and check if the pocTransitionTool is listed. If it is listed, right-click and click Start to run the tool.

### Uninstall the Windows service

To uninstall the PoC Transition Tool as a Windows service:

1. Check the pocTTServiceUninstall.bat file references the correct file path for the PoC Transition Tool. For example:

set HOME=C:\apps\PoCTransitionTool\B2B

1. Run the B2B\lib\pocTTServiceUninstall.bat file from the command line including the name of the Windows service (defined in service.name parameter in the WinRun4J.ini file). For example:

pdrServiceUninstall.bat pocTransitionTool

1. Check the Window service console to ensure the tool is uninstalled. From the Start prompt, run the Services program and check if the process pocTransitionTool is unlisted.

# Configuration options

## Configure the directory structure

You can modify the directory structure to suit your requirements. For example, adding Exceptions subdirectories to filter files by transaction group or participant ID, or adding archive directories for input and output files.

### Modify the directory structure location

The PoC Transition Tool directory location is pre-configured in the \apps directory. You can change the B2B directory location. However, for the application to run, you must also update the following parameters in the B2B\lib\pdrBatcherB2B properties file with the applicable directory:

* batcher\_local\_dir
* batcher\_holding\_dir
* batcher\_thread\_{N}\_source\_dir
* batcher\_thread\_{N}\_dest\_dir
* batcher\_thread\_{N}\_source\_archive\_dir (optional)
* batcher\_thread\_{N}\_exception\_dir

### Add subdirectories

You can create subdirectories in the Exceptions directory to categorise exception files and archiving source and input aseXML files as shown in Figure 2.

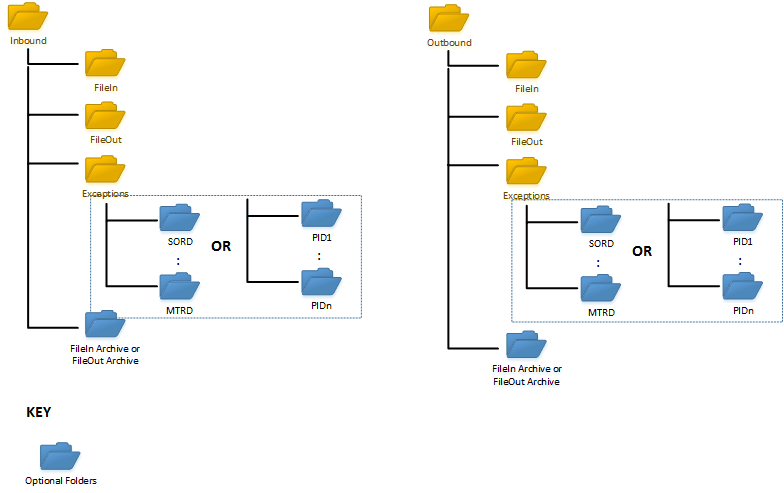
In the Exceptions directory, you can create directories based on:

* Transaction Group, for example SORD and MTRD, or
* ParticipantID, for example PID1 and PIDn.

When the PoC Transition Tool is running, it manages exceptions in the following manner:

1. Checks the Transaction Group directory exists under the Exceptions directory. The incoming aseXML file is scanned for the Transaction Group from the tag location *ase:aseXML/Header/TransactionGroup*. If the tool is unable to derive the Transaction Group from the aseXML file, it takes the transaction group as the first 4 characters of the filename. If the transaction group subfolder is available, the exception files are moved into the transaction group subfolder.
2. If there is no subdirectory with the transaction group in the Exceptions directory, the tools checks for a subdirectory with the PID name in the Exceptions directory. The PID is obtained in the incoming aseXML file from the tag location *ase:aseXML/Header/From* for Inbound transactions, and from the tag location ase:aseXML/Header/To for Outbound transactions. If the PID subfolder is available, the exception files are moved into the Transaction Group subfolder.
3. If there is no sub folder with the PID in the Exceptions folder, files are allocated to the default Exceptions directory path defined in the properties file.

Figure 1 Optional subdirectories



## Configure the logging framework

The PoC Transition Tool’s logging system utilises the log4J logging framework to customise logging behaviour. The log4j framework uses a DailyRollingFileAppender that generates a log file for each calendar day.

The log4j framework is configured in the B2B\lib\poc\_log4jTransitionTool properties file which is beyond the scope of this guide. For more information, see <https://logging.apache.org/log4j/2.x/javadoc.html>.

## Configure global and thread properties

The PoC Transition Tool is preconfigured to suit basic operation suitable for most circumstances. However, the PoC Transition Tool is highly configurable to address your requirements.

The properties file (B2B\Lib\pocTransitionTool.properties)contains parameters for global configuration and for each thread. Each parameter is structured in a name-value pair format.

By default, two sets of thread parameters are provided for an Inbound r36 to r32 file transformation, and an Outbound r32 to r36 file transformation. However, you can add and configure any number of threads.

Configuring the properties file enables the PoC Transition Tool to manage a variety of scenarios including:

* Files from different source directories or destination directories.
* Multiple threads to process files based on Transaction Groups, file masks, or other classifications.
* Identify FileIn and FileOut archive directories to archive files.

The PoC Transition Tool reads the properties file at the start of the application and caches the values. Any parameters defined for a thread override the global properties.

After editing and saving changes to the properties file, restart the application for the changes to take effect.

Many factors affect end-to-end performance, so tuning various properties can deliver improvements for selected file types versus other file types. For a complete listing, description, and examples of property file parameters, see Appendix A.

### Configure file masks

Each thread can process files based on filters (known as file masks) specified by the participant. The multi-threading capability combined with the file mask feature provides higher priority handling of selected file types, and concurrent file translation and transformation.

An include file mask is available for each thread. It is defined in the PoCTransitionTool\B2B\Lib\pocTransitionTool.properties file in the batcher\_thread\_{N}\_incparameter. A file mask is a comma-delimited list of strings including no strings. The filter is the logical order of the strings. Each string excludes leading and trailing spaces, and includes asterisks (\*) and question marks (?) behaving as wildcards. Each asterisk is a series of non-specific characters, and each question mark represents a single non-specific character.

If the batcher\_thread\_{N}\_inc parameter is empty or not defined, the include filter is applied to all files in the thread. For more details, see Properties file parameters.

Be careful not to over-specify filters to prevent reducing a file type priority, or not allocating a file to a thread. For each process, it is best practice to also create a thread with no filters.

# Operations

## Run the application

1. Add aseXML files to the B2B\Inbound\FileIn directory, or \ B2B\Outbound\FileIn directory.
2. Start the application:

* In a Windows environment, double click on the PoCTransitionTool\B2B\Lib\pocTransitionTool.bat file. Alternatively, from the command prompt, navigate to the Lib directory and start the pocTransitionTool.bat file.
* In a Windows service environment, run the Services program as administrator. Search for the pocTransitionTool, right-click and select Start. To stop the service, right-click and select Stop.
* In a UNIX environment, run daemon thread mapped to the PoCTransitionTool/B2B/Lib/pocTransitionTool.sh shell script.

## Troubleshoot application problems

This section provides a general overview of troubleshooting PoC Transition Tool problems, including installation and translation errors in aseXML files.

Table 1 Installation troubleshooting describes solutions to issues during Windows service installation and starting the application.

1. Installation troubleshooting

|  |  |  |
| --- | --- | --- |
| Problem | Cause | Action |
| Window Service installation fails. | Using a 64 bit JRE with the 32 bit service wrapper. | 1. Run the application interactively (using the bat file in the Lib directory) and if it runs correctly, it confirms the cause.  2. Install a 32 bit JVM or use the 64 bit service wrapper. You can run the application on a 32 bit JVM as the memory footprint is small. |
| The Windows service application cannot start. | Administrator privileges are required to run the Windows service. | Ensure you select “Run as administrator” option when starting the Windows service. |

### Resolve translation errors

A file translation error occurs when the PoC Transition Tool processes an aseXML file and identifies XML schema errors, invalid file versions or Transaction Groups, or fails transformation rules for r32 file to r36 file conversion and vice versa. The aseXML file processing errors table provides a general list of translation errors and solutions.

Generally, if the aseXML file is processed but cannot be found in the PoCTransitionTool\B2B\Inbound\FileOut or PoCTransitionTool\B2B\Outbound\FileOut directory:

1. Look for the aseXML file in the Exceptions directory.
2. Review the log files to identify the translation error:
   1. TT\_Error\_Inbound file in the PoCTransitionTool\B2B\Inbound directory or TT\_Error\_Outbound file in the PoCTransitionTool\B2B\Outbound directory. The previous days’ error log files use the filename format TT\_Error\_Outbound-YYYY-MM-DD.log and TT\_Error\_Inbound-YYYY-MM-DD.log.
   2. Root logger files are located in in PoCTransitionTool\B2B\Log subfolder as PoCTT.log for the current day’s log file, and PoCTT-YYYY-MM-DD.log format for previous files.
3. Edit the aseXML file and rectify the error(s).
4. Add the file to the FileIn directory for processing.

For PoC Transition Tool running on Windows services, refer to PoCTT.log files first to identify the errors.

The appendices contain reference tables for configuring the application’s properties, valid Transaction Types, and transformation rules for schema mapping r32 files to r36 files, and r36 files to r32 files. Refer to these tables to help resolve translation errors in aseXML files.

1. aseXML file processing errors

| Cause | Action | Example error message |
| --- | --- | --- |
| Outbound r32 to r36 file processing | | |
| aseXML version or format is not supported | * Review errors in the log files. * aseXML file versions earlier than r32 are not supported. The application only accepts .xml, .ack, or ac1 file formats |  |
| XML schema validation fails or XSD Schema is not available. | * Review errors the log files. * Fix the aseXML according to the error listed in the log file. | [ERROR] 2017-09-12 14:05:23.217 [CONSUMER\_1] B2BOutboundTransformer - Error translating file mtrdmbpmccbrma050637306071ihubmdp\_Invalid\_Body.xml: Error loading XML document from file: The element type "Party" must be terminated by the matching end-tag "</Party>". |
| The aseXML file contains unsupported Transaction Group(s). | * Review errors in the log files. * Check the aseXML file contains the Transactions Groups as configured in the properties file. Other Transaction Groups are not supported, and the file is not transformed. |  |
| The aseXML file contains unsupported Transaction Type(s). | * Review the log files. * Refer to the list of Transaction Types as configured in the properties file. |  |
| The file fails the transformation rules. | * Review errors in the log files. * Update the aseXML file to comply with the transformation rules as described in Appendix C2 Outbound transformation rules. * Move the file to the PoCTransitionTool\B2B\Outbound\FileIn directory for processing. | [ERROR] 2017-09-11 17:20:34.320 [CONSUMER\_1] B2BOutboundTransformer - Error translating file sordhbpmccbrma373462310583powcp Re-en Blank.xml: Error applying additional transformations: Comment Line 1 of Special Instructions should contain Life Support Pattern for Transaction ID BPM-ODMRS-CCBRMA373462310583 |
| Inbound r36 to r32 file processing | | |
| The application cannot determine the aseXML version or the aseXML version is not valid. | * Review the log files. aseXML file versions earlier than r25 are not supported. |  |
| The aseXML schema is not valid. | * Review errors in the log files. * Fix the aseXML file according to the error listed in the log file. * Move the file to the PoCTransitionTool\B2B\Inbound\FileIn directory for processing. |  |
| The aseXML file contains unsupported Transaction Types. | * Review errors in the log files. * Refer to the list of transaction types as configured in the properties file. |  |
| The file fails the PoC Transition Tool’s transformation rules. | * Review the log files. * Update the aseXML file to comply with the transformation rules as described in Appendix C1. * Move the file to the PoCTransitionTool\B2B\Inbound\FileIn directory for processing. | [ERROR] 2017-09-11 22:19:52.889 [CONSUMER\_2] B2BInboundTransformer - Error translating file sordm\_solarisp\_PC GT 3 but 3 spl notes.xml: Error applying additional transformations: Comment Line 3 already exists for Transaction ID SORESP\_20170809155919\_100100831965. Cannot populate additional Product Codes. |
| General configuration errors | | |
| FileOut Archive directory is not configured | * Review the PoCTT.log file * Configure the FileOut Archive directory path in the pocTransitionTool.properties file. | pdrBatcherHandlerBase - Error destination directory [C:/apps/PoCTransitionTool/B2B/Inbound/FileOut, C:/apps/PoCTransitionTool/B2B/Inbound/FileOutArchive] does not exist: Error changing to non-existent local directory C:/apps/PoCTransitionTool/B2B/Inbound/FileOutArchive  java.lang.Exception: Error changing to non-existent local directory C:/apps/PoCTransitionTool/B2B/Inbound/FileOutArchive at au.com.nemmco.Pdr.Batcher.Transport.pdrConnectionLocal.changeDir(pdrConnectionLocal.java:73) ~[AppPdrBatcher.jar:?] |

## Maintenance

To keep the PoC Transition Tool running smoothly, implement a file purging process so archive directories do not consume free disk space on your local machine. The PoC Transition Tool provides a file purging feature that is configured in the PoCTransitionTool\B2B\Lib\pdrBatcherB2B.properties file. Details on file purging parameters are described in Appendix A.

Note: Do not configure the B2BHolding directory path to any of the file purging parameters as it impacts the application’s operation.

In addition, you should regularly archive or delete log files in PoCTransitionTool\B2B\Log directory to avoid the application consuming storage memory.

It is also recommended to download and use the latest release of PoC Transition Tool at http://aemo.com.au/Electricity/National-Electricity-Market-NEM/Power-of-Choice/TransitionTool. AEMO also provides support for the application for six months from 1 December 2017. For more information, see AEMO’s Support Hub.

# Needing Help

## Service period

The PoC Transition Tool is supported for six months from 1 December 2017, or until the next change to the B2B schema and B2B Procedures. This includes changes to the content or additional B2B transactions.

The transformation source code can be provided to Participants to extend the transformation logic to other schema versions if required. AEMO will not provide support related to:

* Delivering design document related to the functionality of the source code.
* Answering queries related to the source code logic.
* Issues resolution when the source code or the delivered JAR is modified.

To request the transformation source code, please send an email to [poc@aemo.com.au](mailto:poc@aemo.com.au).

## Web portal requirements

The resources listed in this section contain additional related information that may assist you.

* **AEMO’s Information and Support Hub**: phone: 1300 AEMO 00 (1300 236 600), and follow the prompts; email: [supporthub@aemo.com.au](mailto:helpdesk@aemo.com.au).
* **National Electricity Rules (NER)**: see the Australian Energy Market Commission (AEMC) website <http://www.aemc.gov.au>.

## AEMO’s Support Hub

### Contacting the support hub

Assistance is requested through AEMO's Support Hub using one of the following methods:

* Phone: 1300 AEMO 00 (1300 226 600) and follow the prompts.  
  For non-urgent issues, normal coverage is 8:00 AM to 6:00 PM on weekdays, Australian Eastern Standard Time (AEST).
* Email: [supporthub@aemo.com.au](mailto:supporthub@aemo.com.au)
* The Customer Portal, http://helpdesk.preprod.nemnet.net.au/nemhelplite/ allows you to log your own requests for assistance. For access credentials, see your organisation's IT security contact or participant administrator.

Please note that AEMO recommends participants call AEMO's Support Hub for all urgent issues, whether or not you have logged a call in the Customer Portal.

### Information to provide

Please provide the following information when requesting assistance from AEMO:

* Your name
* Organisation name
* Participant ID
* System or application name
* Production environment
* Problem description
* Screenshots

For AEMO software-related issues please also provide:

* Version of software
* Properties or log files
* Transaction files in error.

## Feedback

Your feedback is important and helps us improve our services and products. To suggest improvements, please contact AEMO's Support Hub.

1. Properties file parameters

Table 3 lists properties file parameters to configure transformation threads and file purging.

Note that if you create multiple threads for Inbound or Outbound transformation, you must define the parameters for each using the convention {1} for Thread 1 and {2} for Thread 2.

1. pocTransitionTool.properties file parameters

| S.No | Parameter | Description | Mandatory Value | Allowed Values | Default configured value in the properties file | Example |
| --- | --- | --- | --- | --- | --- | --- |
| Global properties | | | | | | |
| 1 | batcher\_data\_sources (DS) | Specifies a comma-delimited list of data sources that the software can transfer files. The data source names are labels used to associate other configuration properties with each data source. The software is designed to operate from the local directory or mapped directories but is extensible to FTP servers. | Y | 1. local 2. remote | local | batcher\_data\_sources=local |
| 2 | batcher\_{DS}\_mode i.e. batcher\_local\_mode | The communication protocol that is used to transfer information to or from a data source.  Remote mode communicates using the FTP protocol, and LOCAL mode performs local filesystem operations (including remote-mounted filesystems such as a mapped network drive). | Y | 1. local 2. remote | local | batcher\_local\_mode=local |
| 3 | batcher\_{DS}\_dir | The local data source's home directory path. The home directory can be overridden based on the thread number using batcher\_thread\_{N}\_source\_dir or batcher\_thread\_{N}\_dest\_dir properties. | Y | <local directory path> | C:/apps/PoCTransitionTool/B2B | batcher\_local\_dir=C:/apps/PoCTransitionTool/B2B |
| 4 | batcher\_threads\_active | A comma delimited list of threads to implement.  By default, two threads are configured: Thread 1: Process outbound r32 files to r36 files Thread 2: Process inbound r36 files to r32 files | Y | Thread numbers separated by commas | 1,2 | batcher\_threads\_active=1,2 |
| 5 | batcher\_holding\_dir | The local directory where the software can place files during processing. The holding directory needs to be local to the software instance for performance and reliability. | Y | <local directory structure> | C:/apps/PoCTransitionTool/HoldingB2B | batcher\_holding\_dir=C:/apps/PoCTransitionTool/HoldingB2B |
| 6 | batcher\_polling\_interval | The duration in seconds between successive searches for new files (when the thread is not otherwise occupied). This property is overridden by batcher\_thread\_{N}\_polling\_interval property in a thread. | Y | Any integer | 60 | batcher\_polling\_interval=60 |
| 7 | batcher\_fail\_interval | The waiting period in seconds before attempting to reconnect after a connection failure. | Y | Any integer | 60 | batcher\_fail\_interval=60 |
| 8 | batcher\_timeout | The duration in seconds to translate a file. If file translation takes longer than specified in this property, the thread aborts the transfer. | Y | Any integer | 200 | batcher\_timeout=200 |
| 9 | pocTransitionTool\_resources\_dir | The directory path for XML schema and stylesheets. | Y | <local directory structure> | C:/apps/PoCTransitionTool/B2B/Resources | pocTransitionTool\_resources\_dir=C:/apps/PoCTransitionTool/B2B/Resources |
| 10 | application\_extension\_class | Extension class referring to the translation logic to be executed | Y | au.com.nemmco.transform.B2BExtension | au.com.nemmco.transform.B2BExtension | application\_extension\_class=au.com.nemmco.transform.B2BExtension |
| Thread 1: Outbound r32 to r36 file transformation | | | | | | |
| 9 | batcher\_thread\_1\_description | A description for this thread. | N | Text | Outbound Retailer Files | batcher\_thread\_1\_description=Outbound Retailer Files |
| 10 | batcher\_thread\_1\_source | The data source where files are retrieved for this thread. | Y | 1. local 2. remote | local | batcher\_thread\_1\_source=local |
| 11 | batcher\_thread\_1\_source\_dir | The home directory path where the software looks for files for this thread. This property overrides the batcher\_{DS}\_dir property, i.e. batcher\_local\_dir | Y | <local directory structure> | C:/apps/PoCTransitionTool/B2B/Outbound/FileIn | batcher\_thread\_1\_source\_dir=C:/apps/PoCTransitionTool/B2B/Outbound/FileIn |
| 12 | batcher\_thread\_1\_dest | The destination data source for files processed for this thread. | Y | 1. local 2. remote | local | batcher\_thread\_1\_dest=local |
| 13 | batcher\_thread\_1\_dest\_dir | Specifies the home directory path where the software transforms and writes output files. This property overrides the batcher\_{DS}\_dir property, i.e. batch\_local\_dir. If the transformed file is to be archived, an archival directory must be created and listed. | Y | <local directory structure> | C:/apps/PoCTransitionTool/B2B/Outbound/FileOut,C:/apps/PoCTransitionTool/B2B/Outbound/FileOutArchive | batcher\_thread\_1\_dest\_dir=C:/apps/PoCTransitionTool/B2B/Outbound/FileOut,C:/apps/PoCTransitionTool/B2B/Outbound/FileOutArchive |
| 14 | batcher\_thread\_1\_file\_translator | Specifies the transformation algorithm when a file is processed. | Y | B2B\_TRANSFORM\_OUTBOUND\_R32R36 B2B\_TRANSFORM\_INBOUND\_R36R32 | B2B\_TRANSFORM\_OUTBOUND\_R32R36 | batcher\_thread\_1\_file\_translator=B2B\_TRANSFORM\_OUTBOUND\_R32R36 |
| 15 | batcher\_thread\_1\_inc | Specifies a comma-delimited list of strings to use as include masks. | Y | Any masks | \*.xml, \*.ack | batcher\_thread\_1\_inc=\*.xml,\*.ack |
| 16 | batcher\_thread\_1\_polling\_interval | Specifies the duration in seconds between new file searches. The default value is the batcher\_polling\_interval property value. A defined value for this property overrides the batcher\_polling\_interval property value. | N | Any integer | 60 | batcher\_thread\_1\_polling\_interval=60 |
| 17 | batcher\_thread\_1\_process\_limit | Specifies the number of files to process before the application thread re-reads the source directory to process additional files. A value of "0" or no defined value means re-reading the list of files from the source directory occurs when the current list is processed. The batcher\_thread\_1\_process\_limit property is used in conjunction with the batcher\_thread\_1\_process\_order property. | N | Any integer | 100 | batcher\_thread\_1\_process\_limit=100 |
| 18 | batcher\_thread\_1\_process\_order | Specifies the processing sequence of files in the source directory.  The batcher\_thread\_2\_process\_order property is used in conjunction with the batcher\_thread\_2\_process\_limit property. The allowed values are:  1. NAME - processing filenames in alphabetical order. 2. NEWEST - processing filenames in descending date order with the most recent file first. 3. OLDEST - processing filenames in ascending date order, with the oldest file first. | N | 1. NAME  2. NEWEST  3. OLDEST | OLDEST | batcher\_thread\_1\_process\_order=OLDEST |
| 19 | batcher\_thread\_1\_source\_archive\_dir | Specifies the source archive directory. The processing thread moves processed input files to the source archive directory instead of deleting those files. | N | <local directory structure> | C:/apps/PoCTransitionTool/B2B/Outbound/FileInArchive | batcher\_thread\_1\_source\_archive\_dir=C:/apps/PoCTransitionTool/B2B/Outbound/FileInArchive |
| 20 | batcher\_thread\_1\_exception\_dir | The exceptions directory path for files failing validations or transformation rules. | Y | <local directory structure> | C:/apps/PoCTransitionTool/B2B/Outbound/Exceptions | batcher\_thread\_1\_source\_archive\_dir=C:/apps/PoCTransitionTool/B2B/Outbound/Exceptions |
| 21 | batcher\_thread\_1\_check\_file\_integrity | Attribute to disable integrity check for .csv or .xml files. By turning it off, the aseXML validation against XSD will not move incorrect formed aseXML messages to the Exceptions directory.  Note: Do not set the value of this attribute to ‘Y’. | Y | Y, N | N | batcher\_thread\_1\_check\_file\_integrity=N |
| 22 | batcher\_thread\_1\_lifesupport\_pattern | Defines how life support information is sent in the special instruction field. If this property is not set, the application assumes that the Special Instruction field contains life support information in the pattern $LS:<V>$, where <V> is Y or N.  For example, if batcher\_thread\_1\_lifesupport\_pattern is set to |LifeSupport - <V>|, the first CommentLine of SpecialInstructions in the r32 file must contain |LifeSupport - Y| OR |LifeSupport - N| as the prefix. | N | User-defined | N/A | batcher\_thread\_1\_lifesupport\_pattern=$LS:<V>$ batcher\_thread\_1\_lifesupport\_pattern=|LifeSupport - <V>| |
| 23 | batcher\_thread\_1\_b2b\_transform\_outbound\_supported\_versions | Supported outbound aseXML file versions. Multiple versions are comma-delimited.  If this property is not set; the tool assumes the values of r32 and r36. | Y | Valid aseXML version | r32, r36 | batcher\_thread\_1\_b2b\_transform\_outbound\_supported\_versions=r32,r36 |
| 24 | batcher\_thread\_1\_b2b\_transform\_outbound\_supported\_transforms | aseXML file versions for transformation. The first file version and transformed file version are separated by a pipe character '|'.  If the aseXML version is listed in batcher\_thread\_1\_b2b\_transform\_outbound\_supported\_versions but not in the transformation, such versions are not transformed. For example, if the value is r32|r36, r32 file versions are transformed to r36. If r36 file is received, it is delivered as a r36 file.  If this property is not set, the tool assumes the value of ‘r32|r36’. | Y | User-defined | r32|r36 | batcher\_thread\_1\_b2b\_transform\_outbound\_supported\_transforms=r32|r36 |
| 25 | batcher\_thread\_1\_b2b\_transform\_outbound\_transform\_supported\_transgroups | Supported transaction groups for transformation. For no defined value, all transaction groups are transformed. If defined, only files with the listed transaction groups are transformed. Files with other transaction groups are sent to the Exceptions directory.  If this property is not set, the tool assumes the value of ‘SORD’. | N | Valid aseXML transaction groups | SORD, CUST, SITE, MTRD | batcher\_thread\_1\_b2b\_transform\_outbound\_transform\_supported\_transgroups=SORD,CUST,SITE,MTRD |
| 26 | batcher\_thread\_1\_b2b\_transform\_outbound\_transform\_supported\_transtypes | Supported transaction types for transformation. If defined, only the listed transaction types are transformed. Files with other transaction types are sent to the Exceptions directory.  If this property is not set, the tool assumes the values of ‘ServiceOrderRequest’, ‘MessageAcknowledgement’, and ‘TransactionAcknowledgement’ | Y | Valid aseXML transaction types | ServiceOrderRequest,AmendMeterRouteDetails,CustomerDetailsNotification,MeterDataMissingNotification,MeterDataVerifyRequest,MessageAcknowledgement,TransactionAcknowledgement | b2b\_transform\_outbound\_transform\_supported\_transtypes=ServiceOrderRequest,CustomerDetailsNotification |
| 27 | batcher\_thread\_1\_b2b\_transform\_outbound\_transform\_so\_type\_subtype\_mapping | Each property value comprises of four variables separated by a pipe character '|': 1. r32 service order type 2. r32 service order sub type 3. r36 service order type to be mapped to 4. r36 service order sub type to be mapped to  For example:  De-energisation|Remove Fuse (Non-Payment)|De-energisation|Remove Fuse   If the incoming r32 Service Order Request is 'De-energisation' and sub-type is 'Remove Fuse (Non-Payment)', the file is transformed to r36 file, and service order type is set to 'De-energisation', and sub-type set to 'Remove Fuse'.  If the incoming r32 Service Order Type is 'De-energisation' and sub-type is not 'Remove Fuse (Non-Payment)' (OR) the r32 Service Order Type is not 'De-energisation’, the file is moved to the Exceptions directory.  If multiple values are to be configured, they must be commas separated. For example: De-energisation|Remove Fuse (Non-Payment)|De-energisation|Remove Fuse, Special Read|Check Read|Special Read|Check Read  If this property is not set; the tool assumes the mapping values are related to De-energisation, Re-energisation and Special Read service order types. | Y | User-defined | Refer Mapping Sheet; sheet 'SO-Sub Type Mapping' | batcher\_thread\_1\_b2b\_transform\_outbound\_transform\_so\_type\_subtype\_mapping=De-energisation|Remove Fuse (Non-Payment)|De-energisation|Remove Fuse, Special Read|Check Read|Special Read|Check Read |
| Thread 2: Inbound r36 to r32 file transformation  Note: If multiple threads are configure for Inbound; then the following attributes need to be defined for each of the threads. E.g. The thread# will be {1} for Thread 1 of Inbound and {2} for Thread 2 of Inbound. | | | | | | |
| 28 | batcher\_thread\_2\_description | A description for this thread. | N | Any Text | Inbound Retailer Files | batcher\_thread\_2\_description=Inbound Retailer Files |
| 29 | batcher\_thread\_2\_source | The data source where files are retrieved for this thread. | Y | 1. local 2. remote | local | batcher\_thread\_2\_source=local |
| 30 | batcher\_thread\_2\_source\_dir | The home directory path where the software looks for files for this thread. This property overrides the batcher\_{DS}\_dir property, i.e. batcher\_local\_dir | Y | <local directory structure> | C:/apps/PoCTransitionTool/B2B/Inbound/FileIn | batcher\_thread\_2\_source\_dir=C:/apps/PoCTransitionTool/B2B/Inbound/FileIn |
| 31 | batcher\_thread\_2\_dest | The destination data source for files processed for this thread. | Y | 1. local 2. remote | local | batcher\_thread\_2\_dest=local |
| 32 | batcher\_thread\_2\_dest\_dir | Specifies the home directory path where the software transforms and writes output files. This property overrides the batcher\_{DS}\_dir property, i.e. batch\_local\_dir. If the transformed file is to be archived, an archival directory must be created and listed. | Y | <local directory structure> | C:/apps/PoCTransitionTool/B2B/Inbound/FileOut , C:/apps/PoCTransitionTool/B2B/Inbound/FileOutArchive | batcher\_thread\_2\_dest\_dir=C:/apps/PoCTransitionTool/B2B/Inbound/FileOut,C:/apps/PoCTransitionTool/B2B/Inbound/FileOutArchive |
| 33 | batcher\_thread\_2\_file\_translator | Specifies the transformation algorithm when a file is processed. | Y | B2B\_TRANSFORM\_OUTBOUND\_R32R36 B2B\_TRANSFORM\_INBOUND\_R36R32 | B2B\_TRANSFORM\_INBOUND\_R36R32 | batcher\_thread\_2\_file\_translator=B2B\_TRANSFORM\_INBOUND\_R36R32 |
| 34 | batcher\_thread\_2\_inc | Specifies a comma-delimited list of strings to use as include masks. | Y | Any masks | \*.xml, \*.ack | batcher\_thread\_2\_inc=\*.xml,\*.ack |
| 35 | batcher\_thread\_2\_polling\_interval | Specifies the duration in seconds between new file searches. The default value is the batcher\_polling\_interval property value. A defined value for this property overrides the batcher\_polling\_interval property value. | N | Any integer | 60 | batcher\_thread\_2\_polling\_interval=60 |
| 36 | batcher\_thread\_2\_process\_limit | Specifies the number of files to process before the application thread re-reads the source directory to process additional files. A value of "0" or no defined value means re-reading the list of files from the source directory occurs when the current list is processed. The batcher\_thread\_2\_process\_limit property is used in conjunction with the batcher\_thread\_2\_process\_order property. | N | Any integer | 100 | batcher\_thread\_2\_process\_limit=100 |
| 37 | batcher\_thread\_2\_process\_order | Specifies the processing sequence of files in the source directory.  The batcher\_thread\_2\_process\_order property is used in conjunction with the batcher\_thread\_2\_process\_limit property. The allowed values are:  1. NAME - processing filenames in alphabetical order. 2. NEWEST - processing filenames in descending date order with the most recent file first. 3. OLDEST - processing filenames in ascending date order, with the oldest file first. | N | 1. NAME  2. NEWEST  3. OLDEST | OLDEST | batcher\_thread\_2\_process\_order=OLDEST |
| 38 | batcher\_thread\_2\_source\_archive\_dir | Specifies the source archive directory. The processing thread moves processed input files to the source archive directory instead of deleting those files. | N | <local directory structure> | C:/apps/PoCTransitionTool/B2B/Inbound/FileInArchive | batcher\_thread\_2\_source\_archive\_dir=C:/apps/PoCTransitionTool/B2B/Inbound/FileInArchive |
| 39 | batcher\_thread\_2\_exception\_dir | The exceptions directory path for files failing validations or transformation rules. | Y | <local directory structure> | C:/apps/PoCTransitionTool/B2B/Inbound/Exceptions | batcher\_thread\_2\_source\_archive\_dir=C:/apps/PoCTransitionTool/B2B/Inbound/Exceptions |
| 40 | batcher\_thread\_2\_check\_file\_integrity | Attribute to disable integrity check for .csv or .xml files. By turning it off, the validation of aseXML against XSD will trap aseXML messages that are not well formed.  Note: Do not set the value of this attribute to ‘Y’. | Y | Y, N | N | batcher\_thread\_2\_check\_file\_integrity=N |
| 41 | batcher\_thread\_2\_b2b\_transform\_inbound\_supported\_versions | Supported inbound aseXML file versions. Multiple versions are comma-delimited.  If this property is not set, the tool assumes the values of r32 & r36. | Y | Valid aseXML version | r32,r36 | batcher\_thread\_2\_b2b\_transform\_inbound\_supported\_versions=r32,r36 |
| 42 | batcher\_thread\_2\_b2b\_transform\_inbound\_supported\_transforms | aseXML file versions for transformation. The first file version and transformed file version are separated by a pipe character '|'.  If the aseXML version is listed in batcher\_thread\_1\_b2b\_transform\_inbound\_supported\_versions but not in the transformation, such versions are not transformed. For example, if the value is r36|r32, r36 file versions are transformed to r32. If a r32 file is received, it is delivered as a r32 file.  If this property is not set; the tool assumes the value ‘r36|r32’. | Y | User-defined | r36|r32 | batcher\_thread\_2\_b2b\_transform\_inbound\_supported\_versions=r36|r32 |
| 43 | batcher\_thread\_2\_b2b\_transform\_inbound\_supported\_transgroups\_for\_processing | Supported transaction groups for transformation. If defined, only files with the listed transaction groups are transformed. Files with other transaction groups are sent to the Exceptions directory.  If this property is not set, the tool assumes the values of ‘SORD’ ,‘MTRD’. | Y | Valid aseXML transaction groups | SORD, CUST, SITE, MTRD | batcher\_thread\_2\_b2b\_transform\_inbound\_supported\_transgroups\_for\_processing=SORD,CUST,SITE,MTRD |
| 44 | batcher\_thread\_2\_b2b\_transform\_inbound\_transform\_supported\_transgroups | If the file or aseXML version is eligible for transformation (based on batcher\_thread\_2\_b2b\_transform\_inbound\_supported\_transforms), this property determines if the transaction group is eligible for transformation or pass-through. This enables Retailers to receive r36 files for certain transaction groups (pass-through) and r32 transformed files for other transaction groups.  For example: batcher\_thread\_2\_b2b\_transform\_inbound\_supported\_transgroups\_for\_processing=SORD,CUST,SITE,MTRD,OWNP batcher\_thread\_2\_b2b\_transform\_inbound\_transform\_supported\_transgroups=CUST,SITE,MTRD,OWNP  With the above configuration: 1. r36 MRSR, PTPE will be rejected because it is not configured in batcher\_thread\_2\_b2b\_transform\_inbound\_supported\_transgroups\_for\_processing. 2. r36 SORDs are not transformed and is a pass-through because SORD is a valid transaction group in batcher\_thread\_2\_b2b\_transform\_inbound\_supported\_transgroups\_for\_processing, but not configured in batcher\_thread\_2\_b2b\_transform\_inbound\_transform\_supported\_transgroups. c. r36 CUST is transformed to r32 file because CUST is configured in batcher\_thread\_2\_b2b\_transform\_inbound\_transform\_supported\_transgroups and batcher\_thread\_2\_b2b\_transform\_inbound\_supported\_transgroups\_for\_processing.  If this property is not set, the tool assumes the values of ‘SORD’, ‘MTRD’. | Y | Valid aseXML transaction groups | SORD, CUST, SITE, MTRD | batcher\_thread\_2\_b2b\_transform\_inbound\_transform\_supported\_transgroups=SORD,CUST,SITE, MTRD |
| 45 | batcher\_thread\_2\_b2b\_transform\_inbound\_transform\_supported\_transtypes | If the file and transaction group is eligible for transformation (based on the value of batcher\_thread\_2\_b2b\_transform\_inbound\_supported\_transforms & batcher\_thread\_2\_b2b\_transform\_inbound\_transform\_supported\_transgroups), this list will determine if the transaction type is eligible for transformation.  If this property is not set, the tool assumes the values of ‘ServiceOrderResponse’, ‘MeterDataNotification’, ‘MessageAcknowledgement’,’TransactionAcknowledgement’. | Y | valid aseXML transaction groups | ServiceOrderResponse,AmendMeterRouteDetails,CustomerDetailsRequest,MeterDataNotification,MessageAcknowledgement,TransactionAcknowledgement | batcher\_thread\_2\_b2b\_transform\_inbound\_transform\_supported\_transtypes=ServiceOrderResponse,SiteAcessNotification |
| Purge holding and archive directories (To be configured by Participants. The following configurations will not be active in the default property file) | | | | | | |
| 46 | file\_purge\_configurations | Specifies a comma-delimited list of configurations in the configuration properties file. A NULL value means there are no file system purging configurations. | N | User-defined | N/A | file\_purge\_configurations=OutboundArchive, InboundArchive |
| 47 | file\_purge\_OutboundArchive\_directory | Specifies the local directory for file purging. | N | <local directory structure> | N/A | file\_purge\_OutboundArchive\_directory=C:/apps/PoCTransitionTool/B2B/Inbound/FileOutArchive |
| 48 | file\_purge\_OutboundArchive\_retention\_time\_mins | The maximum age of files in minutes to be retained in the directory. | N | User-defined | N/A | file\_purge\_OutboundArchive\_retention\_time\_mins=60 |
| 49 | file\_purge\_OutboundArchive\_purge\_frequency\_mins | The frequency in minutes the purge operation is run. The default is once every 24 hours. | N | User-defined | N/A | file\_purge\_OutboundArchive\_retention\_time\_mins=1440 |
| 50 | file\_purge\_InboundArchive\_directory | The local directory to purge files. | N | <local directory structure> | N/A | file\_purge\_InboundArchive\_directory=C:/apps/PoCTransitionTool/B2B/Inbound/FileInArchive |
| 51 | file\_purge\_InboundArchive\_retention\_time\_mins | The maximum age of files in minutes to be retained in the directory. | N | User-defined | N/A | file\_purge\_InboundArchive\_retention\_time\_mins=60 |
| 52 | file\_purge\_InboundArchive\_purge\_frequency\_mins | The frequency in minutes the purge operation is run. The default is once every 24 hours. | N | User-defined | N/A | file\_purge\_InboundArchive\_retention\_time\_mins=1440 |

1. Transaction Type validation
   1. Outbound file Transaction Types

Table 4 provides a detailed listing of source file Transaction Types that are validated for Outbound communication. Refer to this table to help resolve validation errors in your files.

Table rows highlighted in red indicate the Transaction Type is not valid and must be removed from the source file so the PoC Transition Tool can successfully transform the file.

1. Transaction Types validation in Outbound source files

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Transaction Type (Input to the tool) | Transaction Sub-type | Applies to | |  | PoC Transition Tool | | | | Remarks |
| r32 | r36 | Retailer's Sending aseXML version | Mapping Required | 1:1 Mapping | Involves Translation | Result |
| Service Order Request | Re-energisation | Y | Y | r32 | Y | N | Y | If transformation rules are met, the file is moved to the FileOut directory. Refer to the Transformation Rules table. |  |
| Service Order Request | De-energisation | Y | Y | r32 | Y | N | Y |  |
| Service Order Request | Special Read | Y | Y | r32 | Y | N | Y |  |
| Service Order Request | Miscellaneous | Y | Y | r32 | Y | N | Y |  |
| Service Order Request | Allocate NMI | Y | N | r32 | N | n/a | n/a | Default properties file configuration is to move file to the Exceptions directory. | You can edit the property file to allow transformation for these service order types.  Note: If you enable transformation for these service order types,  no specific transformations or validations will be implemented for these service order types. Transformations for Re-en, De-en, and special reads will apply to these service order types as well. |
| Service Order Request | New Connection | Y | N | r32 | N | n/a | n/a |
| Service Order Request | Supply Abolishment | Y | N | r32 | N | n/a | n/a |
| Service Order Request | Adds and Alts | Y | N | r32 | N | n/a | n/a | Default properties file configuration is to move file to the FileOut directory. | You can edit the property file to allow transformation for these service order types. If you allow transformation for these service order types,  no specific transformations or validations will be implemented for these service order types. Transformations for Re-en, De-en, and special reads will apply to these service order types as well. For example, ProposedTariff is mandatory for 'Install Meter' & 'Exchange Meter' but the tool will not enforce this validation for this service order type/sub-type. |
| Service Order Request | Meter Reconfiguration | Y | N | r32 | N | n/a | n/a |
| Service Order Request | Meter Investigation | Y | N | r32 | N | n/a | n/a |
| Customer Details Notification | n/a | Y | Y | r32 | Y | Y | N | Transformed file is moved to FileOut directory. |  |
| Site Access Notification | n/a | Y | Y | r32 | Y | N | Y | Transformed file is moved to FileOut directory. |  |
| One Way Notification | Meter Exchange Notification | Y | Y | r32 | N | n/a | n/a | File is moved to the Exceptions directory. |  |
| Provide Meter Data Request | n/a | Y | Y | r32 | Y | Y | N | Transformed file is moved to FileOut directory. |  |
| Verify Meter Data Request | n/a | Y | Y | r32 | Y | N | Y | Transformed file is moved to FileOut directory. |  |
| Message Acknowledgement | n/a | Y | Y | r32 | Y | Y | N | Transformed file is moved to FileOut directory. |  |
| Transaction Acknowledgement | n/a | Y | Y | r32 | Y | Y | N | Transformed file is moved to FileOut directory. |  |
| Any aseXML Document | n/a | Y | Y | r36 | N | n/a | n/a | If file passes schema validation, the file passes through and sent to the FileOut directory.  If file fails schema validation, the file is moved to the Exceptions Directory. |  |
| Any aseXML Document | n/a | Y | Y | r25 and older | N | n/a | n/a | File is moved to the Exceptions directory. |  |

* 1. Inbound file Transaction Types

Table 4 provides a detailed listing of source file Transaction Types that are validated for Inbound communication. Refer to this table to help resolve validation errors in your files.

Red table rows indicate the Transaction Type is not valid and must be removed from the source file so the PoC Transition Tool can successfully transform the file.

1. Transaction Types validation for Inbound source files

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Transaction Group | Transaction Type (Input to the tool) | Transaction Sub-type | Applies to | | Received file version from market | r36 Pass-through  (configured at Transaction Group level) | PoC Transition Tool | | | |
| r32 | r36 | Mapping required | 1:1 mapping | Involves translation | Result |
| SORD | Service Order Response | Any | Y | Y | r36 | N | Y | N | Y | If transformation rules are met, the file is moved to the FileOut directory. Refer to the Transformation Rules table. |
| CUST | Customer Details Request | n/a | Y | Y | r36 | N | Y | Y | N | Transformed file is moved to FileOut directory. |
| SITE | Site Access Request | n/a | N | Y | r36 | N | N | N/A | N/A | File is moved to the Exceptions directory. |
| SITE | Site Access Notification | n/a | Y | Y | r36 | N | Y | N | Y | Transformed file is moved to FileOut directory. |
| OWNX | Meter Fault and Issue Notification | n/a | N | Y | r36 | N | N | n/a | n/a | File is moved to the Exceptions directory. |
| OWNX | Planned Interruption Notification | n/a | N | Y | r36 | N | N | n/a | n/a | File is moved to the Exceptions directory. |
| OWNP | One Way Notification | Network Tariff Notification | Y | Y | r36 | N | N | n/a | n/a | File is moved to the Exceptions directory. |
| OWNP | One Way Notification | Meter Exchange Notification | Y | Y | r36 | N | N | n/a | n/a | File is moved to the Exceptions directory. |
| NPNX | Notified Party | n/a | N | Y | r36 | N | N | n/a | n/a | File is moved to the Exceptions directory. |
| MTRD | Meter Data Notification | n/a | Y | Y | r36 | N | Y | Y | N | Transformed file is moved to FileOut directory. |
| MRSR | Remote Service Response | n/a | N | Y | r36 | N | N | n/a | n/a | File is moved to the Exceptions directory. |
| SORD SITE CUST OWNP MTRD | Message Acknowledgement | n/a | Y | Y | r36 | N | Y | Y | N | Transformed file is moved to FileOut directory. |
| OWNX MRSR NPNX PTPE | Message Acknowledgement | n/a | Y | Y | r36 | N | N | n/a | n/a | File is moved to the Exceptions directory. |
| SORD SITE CUST OWNP MTRD | Transaction Acknowledgement | n/a | Y | Y | r36 | N | Y | Y | N | Transformed file is moved to FileOut directory. |
| OWNX MRSR NPNX PTPE | Transaction Acknowledgement | n/a | Y | Y | r36 | N | N | n/a | n/a | Move file to Exceptions directory. |
| Configured Transaction Group | Any | n/a | n/a | n/a | r36 | Y | N | n/a | n/a | If file passes schema validation, the file passes through and sent to the FileOut directory.  If file fails schema validation, the file is moved to the Exceptions directory. |
| Any | Any Transaction Type or Acknowledgement | n/a | Y | Y | r32 and r25 | N/A | N | n/a | n/a | If the switch is turned on, the file is sent as-is to the FileOut directory If switch is turned off, the file is moved to the Exceptions directory. |

1. Transformation rules
   1. Inbound transformation rules
2. Header transformation rules

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| aseXML r36 | | | aseXML r32 | | | Transformation Rule |
| Element | Attribute | Enumeration | Element | Attribute | Enumeration |
| TransactionGroup | N/A | CATS, MDMT, MSGS, NMID, FLTS, SORD, NETB, MTRD, CUST, NOTF, SITE, FLDW, OUTG, BAR, NMIF, MKTW, HSMD, OWNP, EMMS, ERFT, IAIT, MRSR, OWNX, NPNX, PTPE | TransactionGroup | N/A | CATS, MDMT, MSGS, NMID, FLTS, SORD, NETB, MTRD, CUST, NOTF, SITE, FLDW, OUTG, BAR, NMIF, MKTW, HSMD, OWNP, EMMS | If incoming Transaction Group is ERFT, IAIT, MRSR,  OWNX, NPNX, or PTPE, and the transaction group is eligible for transformation (if configuration is enabled), there is no transformation and the file is an exception. Else  Mapped as-is. |
| Market | N/A | AATELEC, ACTELEC, NEM, NSWELEC, NTELEC, QLDELEC, SAELEC, TASELEC, VICELEC, WAELEC, AATGAS, ACTGAS, NSWGAS, NTGAS, QLDGAS, SAGAS, TASGAS, VICGAS, WAGAS, NSWACTGAS | Market | N/A | AATELEC, ACTELEC, NEM, NSWELEC, NTELEC, QLDELEC, SAELEC, TASELEC, VICELEC, WAELEC, AATGAS, ACTGAS, NSWGAS, NTGAS, QLDGAS, SAGAS, TASGAS, VICGAS, WAGAS | If incoming Market like '%GAS%', no transformation and file is an exception. Else  Mapped as-is. |

1. Site Details Notification (SDN) transformation rules

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| aseXML r36 | | | | aseXML r32 | | | | Transformation Rule |
| Element | Attribute | Procedure Attribute  Reference | Enumeration | Element | Attribute | Procedure Attribute  Reference | Enumeration |
| Description | n/a | HazardDescription | n/a | Description | n/a | HazardDescription | n/a | If HazardDescription is 'Not Known To Initiator' in r36, set to 'Not Known to Retailer' else  Map as-is |

1. Service Order Response (SOR) transformation rules

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| aseXML r36 | | | | aseXML r32 | | | Transformation Rule |
| Element | Attribute | Procedure Attribute  Reference | Enumeration | Attribute | Procedure Attribute  Reference | Enumeration |
| ServiceOrderResponse | version | n/a | n/a | version | n/a | n/a | The transformed data must contain or be defaulted to 'r17'. |
| ServiceOrderType | xsi:type | n/a | n/a |  |  |  | Service Order Type and Service Order Sub-type is not mapped. |
| ServiceOrderType | version | n/a | r36 |  |  |  | Service Order Type and Service Order Sub-type is not mapped. |
| WorkType | n/a | n/a | n/a |  |  |  | Service Order Type and Service Order Sub-type is not mapped. |
| WorkType | workSubType | n/a | n/a |  |  |  | Service Order Type and Service Order Sub-type is not mapped. |
| NotificationData | version | n/a | n/a | version | n/a | n/a | The version in r32 must be defaulted to 'r17'. |
| ResponseCode | n/a | ExceptionCode | Customer On-Site, Customer Prevented, De-energisation Not Completed Due To A Re-energisation, Documentation Not Provided, Metering Problem, Meter Reading Only Undertaken Due To Prior Re-energisation, New Customer On-Site, No Supply, Other, Reading Problem, Request Submitted By Another Initiator, Initiator Cancellation, Sensitive Load, Recipient Cancellation, Unable To Access, Unknown Load, Unsafe, Tariff Change Not Approved, Inadequate infrastructure, No Comms, Life Support, Meter Not Retrieved, Metering not compatible with proposed Tariff Change, Shared Supply Point, Site Already Energised, Unknown Connection Status | nResponseCode | ExceptionCode | Customer On-Site, Customer Prevented, De-energisation Not Completed Due To A Re-energisation, Documentation Not Provided, Metering Problem, Meter Reading Only Undertaken Due To Prior Re-energisation, New Customer On-Site, No Supply, Other, Reading Problem, Request Submitted By Another Retailer, Retailer Cancellation, Sensitive Load, Service Provider Cancellation, Unable To Access, Unknown Load, Unsafe | If the value in r36 = 'Request Submitted by Another Initiator', it is mapped to 'Request submitted by Another Retailer' Else if the value in r36 = 'Initiator Cancellation'  it is mapped to 'Retailer Cancellation' Else if the value in r36 = 'Recipient Cancellation'  it is mapped to 'Service Provider Cancellation' Else if the value in r36 is 'Tariff Change Not Approved', 'Inadequate infrastructure', 'No Comms', 'Life Support', 'Meter Not Retrieved', 'Metering not compatible with proposed Tariff Change', 'Shared Supply Point', 'Site Already Energised', 'Unknown Connection Status'  it is mapped to 'Other' Else  it is mapped as-is |
| Code (array & unbound) | n/a | ProductCode | n/a | n/a | ProductCode1 | n/a | Map to the first Product Code in r36. |
|  |  |  |  | n/a | ProductCode2 | n/a | Map to the second Product Code in r36. |
|  |  |  |  | n/a | ProductCode3 | n/a | Map to the third Product Code in r36. |
| SpecialNotes | n/a | n/a | n/a | n/a | n/a | n/a | If four or more Product Codes are available in r36, concatenate all remaining ProductCodes in the following format "PC=ProductCode4,ProductCode5,.....,ProductCode{N}" If the concatenated value is greater than 80 characters, the file is moved to the Exceptions directory.   If CommentLine 1, CommentLine 2 & CommentLine 3 are already populated, file is moved to the Exceptions directory. If only CommentLine 1 & CommentLine 2 are populated, populate the rest of product codes in CommentLine 3, and set CommentLine 3 to PC=ProductCode4,ProductCode5,.....,ProductCoden. If only CommentLine 1 is populated, populate the rest of product codes in CommentLine 2, and set CommentLine 2 to PC=ProductCode4,ProductCode5,.....,ProductCode{N}. If CommentLine 1 is not populated, populate the rest of product codes in CommentLine 1, and set CommentLine 1 to PC=ProductCode4,ProductCode5,.....,ProductCode{N}. |

* 1. Outbound transformation rules

1. Service Order Request (SOR) transformation rules

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| aseXML r32 | | | | aseXML r36 | | | | Transformation Rule |
| Element | Attribute | Procedure Attribute  Reference | Enumeration | Element | Attribute | Procedure Attribute  Reference | Enumeration |
| ServiceOrderRequest | version | n/a | n/a | ServiceOrderRequest | version | n/a | n/a | The transformed data must contain / defaulted to 'r36' |
| ServiceOrderType | xsi:type | n/a | n/a | ServiceOrderType | xsi:type | n/a | n/a |  |
| ServiceOrderType | version | n/a | n/a | ServiceOrderType | version | n/a | n/a | The transformed data must contain / defaulted to 'r36' |
| WorkType | n/a | ServiceOrderType | n/a | WorkType | n/a | ServiceOrderType | n/a | [Mapping continues if the Service Order Type / Sub Type in the aseXML file matches the configuration in SO-Sub Type Mapping. If the incoming Service Order Type / Sub Type is not configured (mapping); move incoming file is moved to the Exceptions directory.  If actionType = 'Cancel' and SOType is not populated the file is not validated against the properties file.  else  ServiceOrder Type-Sub Type combination must exist in the properties file](file:///C:\Users\dchan\Documents\B2B%20Translation%20User%20Guide\Transformation%20Rules.xlsx#'SO-Sub Type Mapping'!A1). |
| WorkType | workSubType | ServiceOrder Sub-type | Refer SO  Sub-Type Mapping sheet | WorkType | workSubType | ServiceOrderSubType | Refer SO-Sub Type Mapping sheet | [If the Service Order Type or Sub-Type in the aseXML file matches the configuration in SO Sub-Type Mapping, mapping will continue. If the incoming Service Order Type or Sub-Type is not configured (mapping), the incoming file is moved to Exceptions directory.  If actionType = 'Cancel' and SOType is not populated, it is not validated against the property file. Proceed else  ServiceOrder Type-Sub Type combination must exists in Property File](file:///C:\Users\dchan\Documents\B2B%20Translation%20User%20Guide\Transformation%20Rules.xlsx#'SO-Sub Type Mapping'!A1) |
| AccessDetails | n/a | AccessDetails | n/a | AccessDetails | n/a | AccessDetails | n/a | If the value of Access Details = 'Not Known To Retailer'  Change it to 'Not Known To Initiator' else  Retain the value as-is |
| ContactDetail (Optional) | | | | ContactDetail (Optional) | | | | If PersonName of <ContactDetail> is populated in r32 but Telephone details of <ContactDetail> are not populated, the file is moved to the Exceptions directory. else  map as-is  NOTE: Do NOT implement this check if actionType = 'Cancel'. For actionType='Cancel', just map as-is without performing the above validation. |
| CustomerDetail (Optional) | | | | CustomerDetail (Optional) | | | | If CustomerConsultationRequired flag in r32 = 'true'  If the details (name and/or telephone) related to CustomerDetail is not populated in the r32 file, the file is moved to the Exceptions directory.  else  map as-is else  map as-is  NOTE: Do NOT implement this check if actionType = 'Cancel'. For actionType='Cancel', just map as-is without performing the above validation. |
| RequestData | version | n/a | n/a | RequestData | version | n/a | n/a | The transformed data must contain / defaulted to 'r36' |
| CommentLine - 1st | n/a | Special Instructions | n/a | CommentLine - 1st | n/a | SpecialInstructions | n/a | **Perform the following logic only for actionType = 'New' or 'Replace'** The value of LifeSupport flag has to be passed in the Special Instructions.Comment1 line. Participants will be able to specify how they would (format) send the Lifesupport information in special instruction field i.e. parameter 'batcher\_thread\_{N}\_lifesupport\_pattern' will define how the participants will send the life support information. For example, batcher\_thread\_1\_lifesupport\_pattern=$LifeSupport:<V>$. In this case the Participants must send the comment1 as $LifeSupport:Y$ or $LifeSupport:N$. If this parameter is not defined in the property file, the system will default the format of how the lifesupport information must be sent.   Determine if parameter 'batcher\_thread\_{N}\_lifesupport\_pattern' in the properties file is populated. If populated use LifeSupport Pattern from the Properties File (batcher\_thread\_{N}\_lifesupport\_pattern),  else  Use default pattern of '$LS:<V>$'  Note: <V> should be Y or N.    If the first few characters (prefix) of CommentLine 1 matches the Lifesupport Pattern.  If the value of <V> is 'Y' or 'N'  If CommentLine1 only contains information as stated in the pattern  Make CommentLine1 empty in r36  Set LifeSupport flag as 'Y' or 'N' (as populated in input)  Else  Remove pattern text and populate the rest of the content in CommentLine1  Set LifeSupport flag as 'Y' or 'N' (as populated in input)  Else  Mapping fails; the input file is moved to Exceptions directory.   **Perform the following logic only for actionType = 'Cancel'** If CommentLine 1 matches the pattern, use the above logic to derive the lifesupport flag. else  no error  do not populate lifesupport flag  do not change the value of CommentLine1 |
| CommentLine - 2nd | n/a | Special Instructions | n/a | CommentLine - 2nd | n/a | SpecialInstructions | n/a | Map as is. Do not look for LifeSupport information in the second comment line. |
| CommentLine - 3rd | n/a | Special Instructions | n/a | CommentLine - 3rd | n/a | SpecialInstructions | n/a | Map as is. Do not look for LifeSupport information in the second comment line. |
| NMIStandingData | version | n/a | n/a | NMIStandingData | version | n/a | n/a | The transformed data must contain or be defaulted to 'r36'. |
|  |  |  |  | De-energisationReason | n/a | De-Energisation Reason | Customer Requested, Move Out, Non-Payment (DNP), Unauthorised Usage (DNI), Illegal Usage, No Access, Safety, Defect, Site Works, Breach of Contract, Other | If actionType = 'Cancel' and De-en SOType is not populated:  Do not populate De-En Reason else  Where De-en SubType in r32 is 'Remove Fuse (Non-Payment)' or 'Pillar-Box Pit Or Pole-Top   (Non-Payment)'  Populate 'Non-Payment (DNP)'  Else - other De-en SubTypes ('Remove Fuse' or 'Pillar-Box Pit Or Pole-Top' or 'Sticker' or   blank)  Populate 'Other' |
|  |  |  |  | LifeSupport | n/a | LifeSupport | n/a | Populate per the transformation rules stated in SpecialInstructions. |
|  |  |  |  | Co-ordinationRequired | n/a | ServiceOrderCo-ordinationRequired | n/a | Default to 'No'. |

1. Provide Meter Data Read (PMDR) transformation rules

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| aseXML r36 | | | | Transformation Rule |
| Element | Attribute | Procedure Attribute  Reference | Enumeration |
| NMIStandingData | version | n/a | n/a | If the data is in r32, it should be populated as r36 in the mapped version. |

1. Verify Meter Data Read (VMDR) transformation rules

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| aseXML r32 | | | | aseXML r36 | | | | Transformation Rule |
| Element | Attribute | Procedure Attribute  Reference | Enumeration? | Element | Attribute | Procedure Attribute  Reference | Enumeration |
| VerifyRequestData | version | NA | NA | VerifyRequestData | xsi:type | NA | NA | Transform the version number to r36. |
| NMIStandingData | version | NA | NA | NMIStandingData | version | NA | NA | If the data is in r32, it should be populated as r36 in the mapped version. |
| InvestigationCode | NA | InvestigationCode | Confirm Reading For Vacant Site, Confirm Zero Consumption, Incomplete Data, Invalid MDFF Data, Invalid Standing Data, Missing Datastream, Require Actual Reading or Substitute, Require Final Substitute, Require Latest Version Scheduled Reading Required, Service Order Reading Required, Verify High Reading, Verify Low Reading, Customer Away, Customer Query, Customer Read, High Account, Zero Consumption, Recipient Not Responsible For The NMI, Other | InvestigationCode | NA | InvestigationCode | Confirm Reading For Vacant Site, Confirm Zero Consumption, Incomplete Data, Invalid MDFF Data, Invalid Standing Data, Missing Datastream, Require Actual Reading or Substitute, Require Final Substitute, Scheduled Reading Required, Service Order Reading Required, Verify High Reading, Verify Low Reading, Other, Verify/Missing Register, Require Estimate Data, Meter Churn | If the investigation code is 'Recipient not responsible for the NMI' OR 'Require Latest Version' OR 'Customer Away' OR 'Customer Query' OR 'Customer Read' OR 'High Account' OR 'Zero Consumption' in r32:  Set the value to 'Other' else  Map as-is |

1. Site Details Notification (SDN) transformation rules

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| aseXML r32 | | | | aseXML r36 | | | | Transformation Rule |
| Element | Attribute | Procedure Attribute  Reference | Enumeration? | Element | Attribute | Procedure Attribute  Reference | Enumeration |
| Description | n/a | HazardDescription | n/a | Description | n/a | HazardDescription | n/a | If HazardDescription is 'Not Known To Retailer' in r32 file, set to 'Not Known To Initiator' else  Map as-is |

1. Customer Details Notification (CDN) transformation rules

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| aseXML r36 | | | | | | | | Transformation Rule |
| Element | Attribute | Procedure Attribute  Reference | Mandatory | Type | Length | Default | Enumeration |
| CustomerDetailsNotification | version | n/a | N | r36 | n/a | r36 | n/a | The transformed data must contain or defaulted to 'r36'. |