
Data Interchange Framework and Glossary

**2.01 Final
March 2020**

Explains Data Interchange terms,
abbreviations, and provides important upgrade
information

Important Notice

PURPOSE

This Data Interchange Framework and Glossary (Guide), prepared by the Australian Energy Market Operator (AEMO), provides guidance for the Data Interchange under the National Electricity or National Gas Rules (Rules).

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The release of this document changes any previous versions of Data Interchange Framework and Glossary only.

FEEDBACK

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

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Introduction

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Purpose

This guide explains Data Interchange components, terms, abbreviations, and provides important upgrade information.

Read this guide in conjunction with other guides in the Data Interchange set and the release schedules and technical specifications relevant to Data Interchange and the Data Model. For help, see [Data Interchange Resources on page 18](#).

Audience

This guide is for :

- Registered Participants using the Data Interchange software.
- Registered Participants' technical and software development staff responsible for systems implementation.

What's in this guide

[Chapter 1 About Data Interchange on page 3](#) provides an overview of the software, who can use it, how you use it, system requirements, supported web browsers, and user rights access.

[Chapter 2 Components on page 6](#) describes the components that make up a Data Interchange environment.

[Chapter 3 Legacy Files on page 11](#) explains the design of Legacy files.

[Chapter 4 Baseline Assumptions on page 14](#) provides information about the minimum supported configuration of software and systems participants need to run Data Interchange.

[Chapter 5 Implementation on page 16](#) provides important information about upgrading to a new Data Model version. Read this section in conjunction with Data Model release schedules and technical specifications.

[Chapter 6 Data Interchange Resources on page 18](#) explains where to find the Data Interchange software and explains the resources available to assist with installation, upgrades, and troubleshooting.

[Needing Help on page 21](#) explains how to use the set participant function in the Markets Portal, system requirements, supported web browsers, information about contacting AEMO's Support Hub, and how to provide feedback.

[Glossary on page 24](#) provides a list of Data Interchange and rules terms used throughout this guide. Terms included in the glossary are capitalised.

How to use this guide

- This Guide 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.
- Where there is a discrepancy between the relevant Procedures and information or a term in this document, the Procedures take precedence.
- The references listed throughout this document are primary resources and take precedence over this document.
- **Text in this format** indicates a resource on AEMO's website.
- **Text in this format** indicates a direct link to a section in this guide.
- **Text in this format** is an action to complete.
- Glossary and Rules terms are capitalised and have the meanings listed against them in the [Rules Terms on page 30](#) and [Glossary on page 24](#).
- References to time are Australian Eastern Standard time (AEST) unless otherwise specified.

Chapter 1 About Data Interchange

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This chapter provides a brief overview of Data Interchange. For more details and help setting up an environment, see [Concise Guide to Data Interchange](#).

What Data Interchange is for

Data Interchange is a set of cooperating applications to replicate, manage, and monitor data between AEMO’s Wholesale Energy Market Systems and participants’ local DBMS conforming to the Electricity or Gas Data Models.

Data Interchange is predominantly one way—from AEMO to participants.

Data Interchange has two core functions:

1. AEMO-side reporting applications that generate structured .CSV files into the participant file server.
2. Participant-side software to replicate and monitor data from the Participant File Server to participants’ local DBMS.

Who can use Data Interchange

Data Interchange is for Registered Participants requiring software to replicate data between their systems and AEMO’s.

How do you use Data Interchange

AEMO recommends participants set up a standard configuration of Data Interchange, which is a single data feed, from one Participant ID folders on the Participant File Server, to a single participant database. For example, you can have your pre-production environment connected to the Participant File Server pre-production environment and your production environment connected to the Participant File Server production environment.

Under no circumstance point your pre-production environment to the AEMO production environment or vice versa.

AEMO provides the software to participants and each participant is responsible for setting up their own systems and satisfying their data requirements.

Participants need to decide if the complexity of using Data Interchange is a better business decision than using the simpler web portal applications that require only a web browser.

The main Data Interchange steps are:

1. Participants decide what data they wish to receive using the Data Subscription web application in the Markets Portal. For help, see [Guide to Data Subscription](#).
2. AEMO generates the data in structured CSV files, placed onto the Participant File Server. For help, see [Connecting to AEMO's IT systems](#).
3. The pdrBatcher and pdrLoader software on the participant-side replicates the data from the Participant File Server to participants' local DBMS. For help, see [Guide to pdrBatcher](#) and [Guide to pdrLoader](#).
4. Participants manage their local DBMS and the data feed. For help, see [Concise Guide to Data Interchange](#).

User rights access

To access Data Interchange, Participant Users must have the appropriate user rights access. The access right determines the functionalities and transactions you can use to access the web portal, batch interfaces, FTP, and API services.

Your company's Participant Administrator (PA) provides access to Data Interchange for Participant Users in the **MSATS>Administration>Maintain Entities** menu. The initial PA is set up by AEMO during the registration process.

If you don't know who your company's PA is, contact AEMO's Support Hub.

The entities required for access to each component are listed below. Where a participant user has user rights assigned by more than one participant, they interactively choose the participant they represent, using the **Set Participant** option.

For more details about participant administration and user rights access, see [Guide to User Rights Management](#).

Data Subscription

- EMMS - Data Subscription - Maintain and View Data
- EMMS - Data Subscription - View Data

Data Delivery

- EMMS - Data Interchange

Performance Monitor

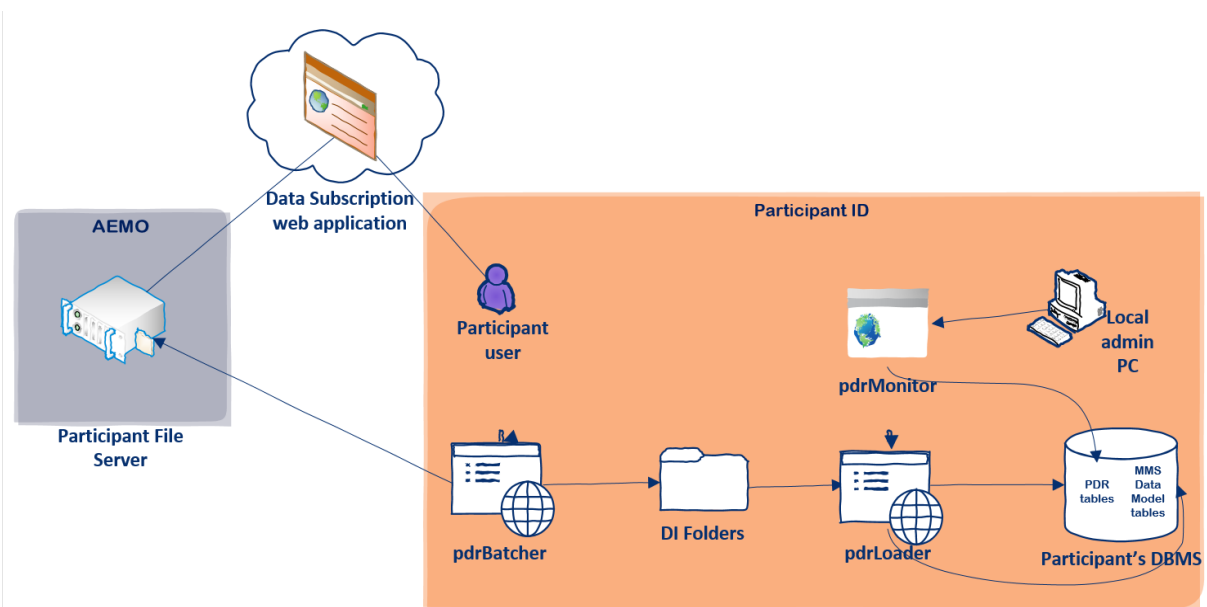
- EMMS - Data Interchange - Performance Monitor

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This chapter describes the applications and resources making up a Data Interchange environment.

Figure 1 Data Interchange components



Data Delivery

The web application in the energy Markets Portal allowing Registered Participants to:

- View the Data Interchange Status Dashboard
- Make a file delivery query
- Re-request files
- View your organisation's data sharing arrangements.

Data Interchange bundles

All the components necessary for a new installation of Data Interchange are bundled together into compressed files; each bundle is for a specific DBMS and version of the Data Model.

The Data Interchange bundles are available from:

- Electricity or gas IT systems guides web pages on [AEMO's website](#). These bundles are for new participants who do not have their access to the Markets Portal or Release folder.

Data Subscription

The web application in the Markets Portal allowing registered participants to:

- Obtain the latest Data Model scripts for building and maintaining their DBMS
- Subscribe and unsubscribe to the report files available in the participant file server
- View the entire list of available files.

Electricity and Gas Data Models

Establishes the target tables in a participant's DBMS conforming to the Data Model, including database tables, indexes, and constraints. It is currently delivered for Oracle and SQL Server.

AEMO recommends subscribing to all available files and selectively loading them into your DBMS as required. This way the file is created and available if required in the future (approximately 6 months of history is retained online). Unsubscribing from files makes them unavailable in the future.

Data sets provided from AEMO's pre-production are different from AEMO's production because the environments are operated independently.

The Data Model is usually updated with each release for example, new tables or new columns. AEMO recommends participants keep their Data Model current with new releases to avoid data loss.

Market Data

Current data

AEMO's website has the same data as distributed through the NEM file interfaces, with the exception of participant's private data. The data is mostly in CSV format with some graphical summaries. Data retention depends on the file type, for example, Dispatch files are kept for 2 days. The section for each file type explains how long each file remains in the current directory.

To obtain current data, see <http://nemweb.com.au/Reports/Current/>.

Baseline data

Intended for initial loading into an participant's empty DBMS, to provide key standing data immediately prior to commencing the routine data feed.

Participants can fully populate the tables with baseline data by copying each file in the **Participant File Server\Interface\Market Data\Baseline** folder into the pdrLoader input folder for the matching source environment, either production or pre-production.

Historical data

Older files are moved to the Reports archive and kept for up to 13 months. To obtain historical data, see <http://www.nemweb.com.au/Reports/ARCHIVE/>

Monthly archive

Data older than 13 months: <http://nemweb.com.au/#mms-data-model>.

MarketNet

All participants must connect to the Participant File Server using AEMO's private data network—MarketNet, which uses the FTP protocol.

The pdrBatcher defaults to use the FTP protocol, simplifying the set-up to access the participant file server.

Participant's DBMS

Contains the data received from AEMO into tables matching the Data Model.

AEMO's production and pre-production systems are independently operated, so ensure the data from one is not confused with the other.

When maintaining the database, ensure compatibility is maintained with the Data Model. Not keeping up-to-date with new releases will compromise data integrity.

Participant Data Replication Batcher (pdrBatcher)

Responsible for transferring files to and from AEMO's participant file server to the participant's local Data Interchange folders. It can be installed in any environment supporting Java.

pdrBatcher is a batch application, therefore does not have a graphical user interface. Configuration of the pdrBatcher is done using the .properties file, which is only read when the pdrBatcher starts up, so any changes require a restart of the application.

pdrBatcher recovers from network failure to allow for recovery of missing data.

Participant Data Replication Loader (pdrLoader)

Responsible for loading files to and from participant's local Data Interchange folders to the participant's DBMS. It can be installed in any environment supporting Java.

pdrLoader polls the participant's local Data Interchange folders and processes data from files into the participant's DBMS conforming to the Data Model.

pdrLoader is a batch application, therefore does not have a graphical user interface. Configuration of the pdrLoader is done using the .properties file, which is only read when the pdrLoader starts up, so any changes require a restart of the application.

pdrLoader has mechanisms to identify and recover missing data.

Participant Data Replication Monitor (pdrMonitor)

A web-based interactive interface allowing participants to configure and interrogate their Data Interchange instances. Participants install the software locally to run on either Windows or unix-like operating systems.

Participant File Server

The publishing point from AEMO systems to participant systems, with each participant allocated an account and access to private and public areas. Each participant is responsible for interfacing with the participant file server.

If uncollected, files are moved to the archive folder after a couple of days. If your environment is configured properly it automatically retrieves the missing files from the archive. Files are kept in the archive for approximately six months.

AEMO's production and pre-production environments are independently operated, so each environment has its own IP address for its participant file server.

Performance Monitor

The web application in the Markets Portal allowing Registered Participants to view a graphical interface of the current Data Interchange Performance Monitor environment run and managed by AEMO. Participants not receiving data, or experiencing data delays can contrast the data delivery performance of their Data Interchange environment to AEMO's Data Interchange performance environment.

Chapter 3 Legacy Files

This chapter explains the design of Legacy files.

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About legacy files

AEMO market system software releases support the Latest (n) and Legacy (n-1) integrations to AEMO's market systems, allowing maintenance of participant interfaces across the system implementation at the AEMO end.

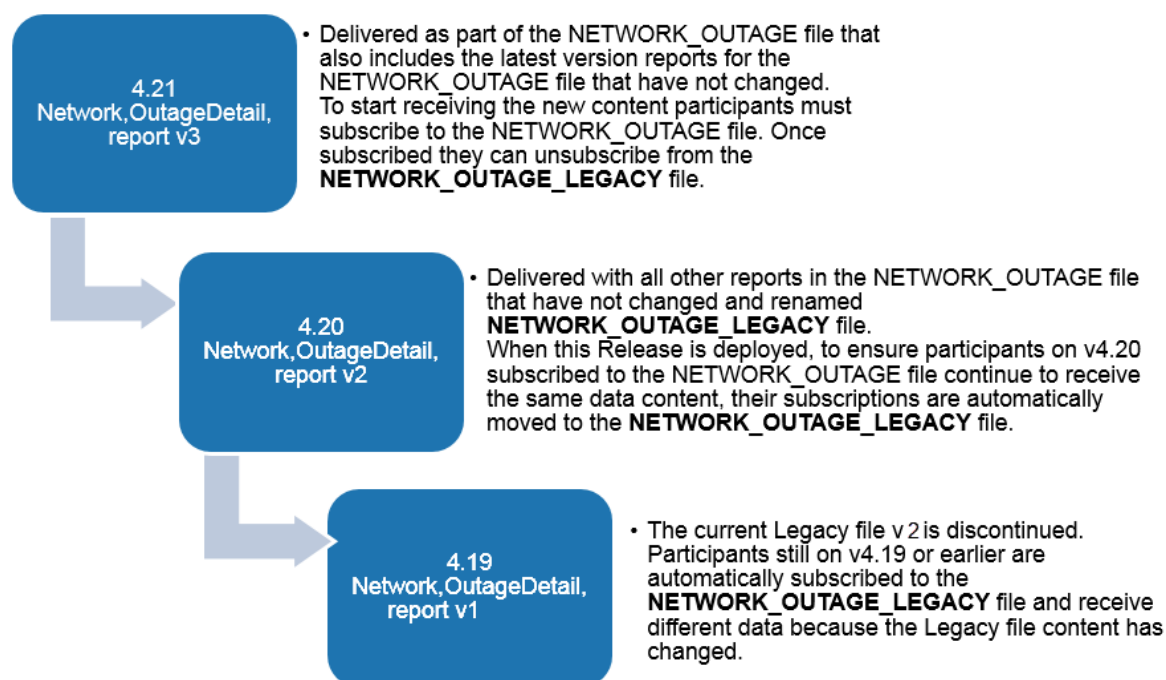
AEMO refers to the previous version as the Legacy version, for example NETWORK_OUTAGE_LEGACY. The example in [Figure 2](#) describes what happens to an existing Legacy file in v4.19 when AEMO releases a new Data Model version, 4.21.

AEMO expects participants using Data Interchange to complete the corresponding release implementation at their end, moving from Legacy to Latest, prior to the next system release.

For help with a Data Interchange installation, see:

- [Guide to setting up a standard Data Interchange environment](#)
- [Guide to upgrading a standard Data Interchange environment](#)

Figure 2 Legacy file explanation



De-subscribing from legacy files

Once participants upgrade their systems to the latest release, there is no requirement to maintain the Legacy report subscriptions.

During a Data Interchange implementation, many participants subscribe to the new files but do not complete the final step of removing the Legacy report subscriptions. Participants' Data Interchange systems maintaining concurrent subscriptions to the Current and Legacy versions of Data Model files can cause the systems to discard the Current file version in favour of the Legacy file version.

To assist the integrity of participants Data Interchange systems, AEMO:

1. Checks every 15 minutes if the Participant ID is subscribed to the Current file.
2. If yes, de-subscribes the Participant ID from the Legacy file.

This solution:

- Only impacts participants' Data Interchange systems maintaining concurrent subscriptions to the Current and Legacy versions of Data Model files as an outcome of incomplete implementations of historical or future releases.

- Does not impact participants' ability to maintain a Legacy subscription following a release and complete the system upgrade at a time of their own choosing. Once participants subscribe to the Latest reports, AEMO's systems automatically unsubscribe participants from the Legacy report, however, participants can revert this action by resubscribing to the Legacy report and unsubscribing from the Latest.

Chapter 4 Baseline Assumptions

This chapter provides information about the minimum supported configuration of software and systems participants need to run Data Interchange.

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Compatible software

Data Interchange software runs on Windows and Unix -like operating systems.

	Current version	DI release
Java	11	Data Interchange 2019 Release v7.4.2. For details, see EMMS Release Schedule -Data Interchange -November 2019 . Release series Release series: EMMSDIJRE11
Operating systems	Windows and Unix -like	n/a

Data Interchange versions

Component	Current version	Still supported
Electricity Data Model	4.30	4.29
Gas Data Model	2.01	2.00
PDR Loader	7.4.2	7.4.1

Component	Current version	Still supported
PDR Batcher	7.4.2	7.4.1
PDR Monitor	1.1.0	1.0.0

Database management systems

DMS	Current	Still supported
Microsoft SQL Server	2017	2014, 2012
Oracle	19c	18c, 12c

Product Interoperability matrix

pdrMonitor version	pdrBatcher version	pdrLoader Version
1.0.0	>=7.4.1	>=7.4.1
1.1.0	>=7.4.1	>=7.4.2

Chapter 5

Implementation

This chapter provides important information about upgrading to a new Data Model version. Read this section in conjunction with Data Model release schedules and technical specifications.

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Important upgrade information

The following notes are important for each upgrade of a Data Model release:

- When the new release is deployed, participants on the Previous Versions subscribed to files that change, continue to receive the same data because AEMO automatically moves their subscriptions to the Legacy file. For help, see [Important upgrade information above](#).
- Participants on Discontinued Versions subscribed to Legacy Files may receive different content if the Legacy file content changes.
- To start receiving the Latest Version content, participants must subscribe to the latest version of files in the Data Subscription web application. The **technical specification** details the changes to the data model.
- Once subscribed, and the new data is received, you can unsubscribe from the Legacy Files in the Data Subscription web application. For help, see [Guide to Data Subscription](#).
- Participants must ensure that all internal dependencies on discontinued tables are removed prior to a new release otherwise participant processes may be impacted.

For help upgrading or setting up a new Data Interchange environment, see [Guide to Upgrading Data Interchange](#) and [Guide to setting up a standard Data Interchange Environment](#).

Upgrade implications

To maintain systems in-line with AEMO's market systems, participants need to:

- Review and assess the impact on their market systems with respect to the changes implemented as part of the release.
- Change their systems prior to the implementation of the release to ensure they are up-to-date. AEMO recommends participants' wholesale market systems are compliant with the latest Data Interchange software versions; see [Chapter 4 Baseline Assumptions on page 14](#).
- Schedule staff and resources to upgrade their Data Interchange environments.
- If you have a system dependency on the formats of the non-Electricity or non-Gas Data Model reports you need to manage these dependencies using the detail provided in the technical specification.

Transition

- To receive new data in the modified packages and tables, you must upgrade your Data Model to the new version.
- AEMO automatically moves participants' subscriptions to the Legacy file. This ensures participants on earlier Data Model versions, subscribed to files that change, continue to receive the same data.
- Some Data Model report versions may be discontinued. You must ensure you remove all internal dependencies on discontinued tables prior to the deployment of the release; otherwise, your processes may be impacted.

AEMO encourages participants using Data Interchange to make use of the four-week pre-production period to assess and test any impact to their market systems and business processes.

- Participants on earlier Data Model versions remain on any subscribed Legacy files but may receive different content if the Legacy file content changes.

Chapter 6 Data Interchange Resources

This chapter explains where to find the Data Interchange software and explains the resources available to assist with installation, upgrades, and troubleshooting.

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Data Interchange software

Existing participants

You can find the latest Data Interchange software for upgrades and associated documentation in the following locations:

1. Releases directory on the participant file share: FTP to 146.178.211.25 > Data Interchange, pdrBatcher, pdrLoader, and pdrMonitor.
2. Data Subscription web application in the Markets Portal:
 - Production: <https://portal.prod.nemnet.net.au>
 - Pre-production: <https://portal.preprod.nemnet.net.au>

New Participants

The Data Interchange bundles on **AEMO's website** > electricity or gas IT Systems web pages, have all the components necessary for a new Data Interchange installation for participants who do not have their access to the Markets Portal or Releases share.

Data Interchange guides

Changing your password on the Participant Server, explains the password rules and how to change your password to access the Participant Server.

You can find resources on AEMO's website.

Comprehensive guide to Data Interchange, that includes options to consider before set up, different configuration options, and data recovery options.

Concise Guide to Data Interchange, assists participants to understand AEMO's Data Interchange software, describing how to set up a standard Data Interchange environment to replicate data between AEMO's wholesale energy market systems and participants' local DBMS conforming to the electricity or gas Data Models.

Connecting to AEMO's Electricity IT Systems, explains the interfaces available for electricity participants and how to access them.

Data Model GUI Installer Guide, covers the installation of the Data Model using one of the GUI Installers.

Data Model Installation Note, lists the minimum infrastructure and steps required for setting up the Data Model on a suitably prepared database. For notes relevant to each DBMS, see the README.txt in the software bundle.

Data Model Loader Configuration Implementation Note, contains instructions for installing pdrLoader configuration files.

Data Model Package Summary, summarises the Data Model report. For each package, it lists the tables in the package, together with a brief summary and entity diagrams. There are separate summaries for electricity and gas.

Data Model Report, provides full details of all packages and tables in the Data Model. There are separate reports for electricity and gas.

Data Model Table to File to Report Relationships Workbook, details the relationships between the Data Model tables, files, and reports.

Guide to Data Sharing, explains how to share data with another participant ID using Data Interchange software.

Guide to Information Systems, comprehensive guide providing an overview of AEMO's market systems used by participants. It is relevant to IT decision making during participant onboarding and provides an understanding of the IT systems requiring set up.

Guide to Participant Data Replication Batcher (pdrBatcher), covers the setup and use of the Participant Data Replication Batcher (pdrBatcher) to move files between AEMO and participants' local folders.

Guide to Participant Data Replication Loader (pdrLoader), covers the setup and use of the Participant Data Replication Loader to parse csv files into a local DBMS conforming to the Data Model.

Guide to Participant Data Replication Monitor (pdrMonitor), covers the configuration and use of the pdrMonitor software.

Guide to setting up a standard Data Interchange environment, explains how to set up a standard Data Interchange environment.

Guide to Troubleshooting Data Interchange, provides assistance with troubleshooting Data Interchange issues.

Guide to upgrading a standard Data Interchange environment, explains how to upgrade a standard Data Interchange environment.

Guide to User Rights Management, assists Participant Administrators to manage their Participant User's access to AEMO's systems. It also explains how to set up single user IDs for use with the Set Participant function in AEMO's web portals.

Markets Portal Help, online searchable help for the Markets Portal web applications. Only available over a MarketNet connection:
<https://portal.preprod.nemnet.net.au/help>

Participant Data Replication Monitor GUI Installer Guide, assists participants to install and configure the Participant Data Replication Monitor (pdrMonitor) software.

Release Schedules and Technical Specifications, information about projects and changes to AEMO's IT systems affecting participants. AEMO provides this information as a service targeting business analysts and IT staff in participant organisations to assist with their technical implementation.

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Set participant

Where a participant user has user rights assigned for more than one participant ID, they interactively choose the participant they represent, using the **Set Participant** option.

System requirements

Using Data Interchange (DI) requires:

- Access to MarketNet; if your company is a registered participant, you probably already have access because it is set up during participant onboarding, for more details, see **Guide to Information Systems**.
- A Participant ID and password, provided by your company's participant administrator (PA). PAs are set up during Registration, if you don't know who your company's PA is, contact AEMO's Support Hub. For help, see **Guide to User Rights Management**.
- A DBMS supporting the Data Model, either Oracle and Microsoft SQL Server. For the latest DBMS versions, see the latest **Technical Specification** on AEMO's website: www.aemo.com.au.
- A Java runtime engine suitable for the target DBMS. The distribution file from AEMO contains supported JDBC drivers for Oracle and SQL Server. DI components run on both Windows and Unix-like operating systems.
- Good IT skills, including networking, database management, batch file management, and disaster recovery. For help, see **Concise Guide to Data Interchange**.

Supported web browsers

Data Interchange runs on both Windows and Unix-like operating systems. To access the Markets Portal, AEMO recommends the following web browsers:

Browser	Platform	Current	More information
Microsoft Internet Explorer	Windows	IE11	https://www.whatismybrowser.com/guides/the-latest-version/internet-explorer
Microsoft Edge (Microsoft recommended)	Windows 10	Edge	https://www.microsoft.com/en-au/windows/microsoft-edge
Google Chrome	All platforms	Latest	https://www.whatismybrowser.com/guides/the-latest-version/chrome

For the best experience, AEMO recommends using the current or previous version of Google Chrome.

AEMO's Support Hub

IT assistance is requested through one of the following methods:

- Phone: 1300 AEMO 00 (1300 236 600)

For non-urgent issues, normal coverage is 8:00 AM to 6:00 PM on weekdays, Australian Eastern Standard Time (AEST).

- The **Contact Us** form on AEMO's website.

AEMO recommends participants call AEMO's Support Hub for all urgent issues, whether or not you have logged a call using the contact us form.

Information to provide

Please provide the following information when requesting assistance from AEMO:

- Your name
- Organisation name
- Participant ID
- System or application name
- Environment: production or pre-production
- Problem description
- Screenshots

For AEMO software-related issues please also provide:

- Version of software.
- Properties or log files.
- Support dump and Data Interchange instance name (if Data Interchange problem).

If you are using pdrMonitor, you can send a support dump directly to AEMO:

The screenshot shows the 'Actions' menu in the pdrMonitor interface. The 'Send Support Dump' option is highlighted with a red box. The interface includes a sidebar with 'Configuration' and 'INTEGRATION' sections, and a main area with a table of actions.

Action	Description
Force Reconciliation	This will force the pdrLoader to perform a reconciliation to identify missing data, even if it is currently busy loading content.
Send Support Dump	This will send a trigger to the pdrLoader application to generate a support dump file.
Re-request Files	This will force the pdrLoader to perform a re-request of the selected files from the AEMO system.
Reset point in time	This allows the user to reset the reconciliation point in time in pdrLoader.

Feedback

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

Glossary

AEST

Australian Eastern Standard Time

Batcher

pdrBatcher

CSV

Comma-separated values; a file format for exchanging data.

Data Interchange

A set of cooperating applications used to replicate data between AEMO's energy market systems and a participant's DBMS conforming to the MMS Data Model.

Data Interchange Bundles

All the components necessary for a new data interchange installation bundled together in a compressed file. Each bundle is for a specific RDBMS and the latest release of the Electricity and Gas Data Models.

Data Interchange component

An application making up part of a Data Interchange instance, such as pdrBatcher, pdrMonitor etc.

Data Model

The definition of the interface to participants of data published by AEMO for gas or electricity. A database conforming to the Data Model can contain a local copy of all current participant-specific data recorded in the main database. The Data Model includes database tables, indexes, and primary keys.

Data Sharing

Each participant ID can share their data with other participant IDs, subject to an authorised request. Implementing data sharing means the full Data Interchange data set (including private data) for the requesting participant ID is made available to another participant's sets of folders in the EMMS file server, as nominated in the request. The sharing of data is for both pre-production and production. A data sharing requirement may emerge, for example, due to a merger with, takeover of, or sale of another registered participant. The requirement may be to use one company's IT system to manage access, and process the data for two or more participant IDs using just one participant IDs set of folders in the EMMS file server. The Data Interchange web application in the Markets Portal provides the status of any data sharing agreements you have implemented.

Data Subscription

A web application in the Markets Portal used to subscribe to Data Interchange files and to obtain the latest MMS Data Model. These files are typically csv files containing public data and participant's private data. AEMO recommends participant use of the Data Interchange suite of products, supplied by AEMO, to automate receiving and storage of the files to their systems. AEMO provides working sample software for FTP access (Participant Batchter) to MarketNet and working sample software for Data Interchange.

DBA

Database administrator

DBMS

Database Management System

DI

Data Interchange

DI System

A collection of Data Interchange applications working together.

Discontinued Report

When a Legacy version of a file replaces an existing Legacy file, some versions of the included reports may change. The replaced report versions are referred to as discontinued. Participants on Discontinued versions may be impacted if a report is discontinued in a Legacy file they are receiving.

Discontinued Version

Refers to the tables, files, and reports deployed two versions ago. AEMO only supports the current and previous Data Model versions.

EMMS

Wholesale Electricity Market Management System; software, hardware, network and related processes to implement the energy market.

File

Logically groups one or more reports delivered as a physical file, for example BILLING. Participants subscribe to files in the Markets Portal > Data Interchange > Data Subscription interface.

FTP

File transfer protocol; a standard network protocol used for the transfer of computer files between a client and server on a computer network.

GUI

Graphical User Interface

JRE

Java Runtime Environment

Latest Version

Refers to the tables, files, and reports deployed in the latest Data Model release.

Legacy File

Currently supported but no longer updated. If a report is changed in a release, the previous version of the report and the latest version of other reports in the file are delivered from the Legacy file. AEMO automatically moves participants' subscriptions to the Legacy file. This ensures participants on previous Data Model versions subscribed to files that change, continue to receive the same data. Once upgraded, and the new data is received, you can unsubscribe from the Legacy files. Participants still on discontinued file versions may receive different content if the Legacy file content has changed.

Loader

pdrLoader

Log4J

A Java logging framework (API) distributed under the Apache Software License.

Manifest

Contains all known data discrepancies.

MarketNet

AEMO's private network available to participants having a participant ID

Markets Portal

Web portal for access to AEMO's wholesale web-based applications.

MSATS

Retail Market Settlement and Transfer Solution

MSATS Web Portal

MSATS web-based interactive interface

MW

Megawatt

NER

National Electricity Rules

NGR

National Gas Rules

PA

Participant Administrator

Package

One package contains several tables, files, and reports but not all files are in a package.

Participant's DBMS

Contains the data received from AEMO into tables matching the Data Model.

Participant Administrator

The company's Participant Administrator (PA) who manages the company's user access and security. The PA is setup during registration.

Participant File Server

The publishing point from AEMO systems to participant systems. Each participant is allocated an account and access to private and public areas. Participants are responsible for interfacing with the participant file server. If uncollected, files are moved to the archive folder after a couple of days. If your Data Interchange environment is configured properly it automatically retrieves the missing files from the archive. Files are kept in the archive for approximately six months. AEMO's production and pre-production environments are independently operated, so each environment has its own IP address for its participant file server.

Participant ID

Registered participant identifier provided to the company by AEMO

Participant User

An end user of AEMO's systems set up by the company's Participant Administrator.

pdr

Participant Data Replication

pdrBatcher

Software responsible for transferring files to and from AEMO's participant file server to the participant's local Data Interchange folders. It can be installed in any environment supporting Java.

pdrLoader

Software responsible for loading files to and from participant's local Data Interchange folders to the participant's DBMS. It can be installed in any environment supporting Java.

pdrMonitor

A component of Data Interchange, providing participants with visualisation of the status of their Data Interchange systems. The pdrMonitor replaces the Replication Manager.

Pre-production

AEMO's test system available to participants

Previous Version

Refers to the tables, files, and reports deployed in the previous Data Model release.

Production

AEMO's live system

Replication Manager

The previous software used to manage the configuration settings and monitor the status of the replication of data from AEMO's systems to the participant's DBMS. The Data Interchange replaces the Replication Manager.

Report

A data report that loads into a data model table. Identified by its type, subtype, and version. For example: BILLING,BILLINGASPAYMENTS,2

Report ID

The name of the report contained in the Package (Report Type)

Report Type

The Data Model package name

Rights

The access right setup by the administrator providing access to different areas of the pdrMonitor.

Rules

The National Electricity or Gas Rules.

Standard Data Interchange environment

A single data feed, from one Participant ID folders on the participant file server, to a single participant database. For example, you can have your pre-production environment connected to the participant file server pre-production environment and your production environment connected to the participant file server production environment. Under no circumstance point your pre-production environment to the AEMO production environment or vice versa.

URM

User Rights Management; see the Guide to URM on AEMO's website

WinRun4J

A java launcher for windows, providing the following benefits: Uses an INI file for specifying classpath, main class, vm args, program args and a custom executable name appearing in the task manager.

Zip

The file compression format used for exchanging data with AEMO.

Rules Terms

You can find the following terms defined in the National Electricity or National Gas Rules.

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