

# MMS DATA MODEL pdrLOADER CONFIGURATION IMPLEMENTATION NOTE

PREPARED BY: EMD

DOCUMENT REF: MMSTDPD148

VERSION: 4.01

DATE: 23 October 2009

Final

## 1 Prelude

In this document, references to the 'software' are to the MMS Data Model pdrLoader Configuration data, unless specifically otherwise. References to associated materials include this document, *MMS DATA MODEL pdrLOADER CONFIGURATION IMPLEMENTATION NOTE*.

### 1.1 Disclaimer

1. This software and the associated materials are provided by AEMO to users free of charge to interface to the AEMO MMS.
2. A user runs the software or uses the materials at its own risk. AEMO does not represent or warrant that the software and materials are complete, free from errors, reliable and fit for the purpose set out above. Nor does AEMO represent or warrant that the software is free from viruses and other programs which may affect other software or systems. The software and associated materials are provided on the basis that users proposing to use or rely on the software or associated materials undertake responsibility for independently verifying and checking the accuracy, completeness, reliability or suitability of the software or associated materials.
3. Subject to paragraph 4, AEMO and its employees and contractors are not liable for any loss, damage, costs or expenses suffered or incurred by users in connection with the software or materials or their use of them (including loss, damage, costs or expenses caused by negligence).
4. The Trade Practices Act and some other laws imply terms into contracts for the supply of goods or services ("Prescribed Terms"). To the extent permitted by law, the liability of AEMO in respect of a breach of a Prescribed Term relating to the supply of the software or the materials or any associated service is limited at AEMO's sole discretion to:
  - in the case of a good, any one or more of the following:
    - its replacement or the supply of an equivalent good or payment of the cost of such replacement or supply; or
    - its repair or payment of the cost of its repair; and
  - in the case of a service, the re-supply of the service or payment of the cost of doing so.
5. Except as outlined in this disclaimer, to the extent permitted by law, all conditions, warranties and terms (including Prescribed Terms) relating to the software and materials (whether written, oral or implied by law, custom or usage) are excluded.

### 1.2 Copyright Notice

Copyright © 2009 Australian Energy Market Operator Limited

All rights reserved. This entire publication is subject to the laws of copyright and intellectual property rights. This publication may be printed for personal informational use as long as the copyright notices stay intact, but may not be re-distributed, re-sold, reproduced, stored in a retrievable system or transmitted in any form by any means, electronic, mechanical, photocopying, recording or otherwise, without the prior permission of the Australian Energy Market Operator Limited, except as permitted under the Copyright Act 1968.

AEMO is not responsible for and will not be liable to any person in relation to the use of or reliance on any of the information contained in this document.

### 1.3 Document Meta-information

Title: MMS DATA MODEL pdrLOADER CONFIGURATION IMPLEMENTATION NOTE

Document ID: MMSTDPD148

Version: 4.01

Responsible Department: EMD

Notes: AEMO layout

#### 1.3.1 Version History

##### VERSION RELEASE HISTORY

| Ver.Rel | Date       | Author | Notes  |
|---------|------------|--------|--|
| 1.01    | 02/11/2004 | MMS    | Initial creation   |
| 1.02    | 11/03/2005 | MMS    | Upgrade for Parser   |
| 1.03    | 30/03/2005 | MMS    | Update for MMS Data Model v4.4   |
| 1.04    | 08/04/2005 | MMS    | Update for transition plan   |
| 1.05    | 02/05/2005 | MMS    | Removed the Settlements Load Shed Payment and Recovery records from the upgrade. |
| 1.06    | 20/05/2005 | MMS    | Corrected transaction_type for PREDISPATCHPRICESENSITIVIES                       |
| 2.0     | 26/10/2005 | MMS    | Generalised to reduce maintenance; release specific material now in README.txt   |
| 3.0     | 03/04/2008 | MMS    | References to pdrLoader  |
| 4.0     | 8Oct09     | EMD    | AEMO layout  |
| 4.01    | 23Oct09    | EMD    | Amended to reflect updated delivery process                                      |

### 1.4 Abbreviations

| Abbreviation | Abbreviation Explanation   |
|--------------|--|
| MMS          | Market Management System; software, hardware, network and related processes to implement the National Electricity Market (NEM) |

TABLE 1: ABBREVIATIONS

### 1.5 References

(Check the version of any reference document to ensure it is appropriate and current.)

MMS Replication Overview gives an overview of the data replication process in the MMS systems

Participant Data Replication Loader User Guide contains detailed instructions on options for setup and configuration.

MMS Data Model Installation Note contains detailed instructions on the setup of an RDBMS repository of the MMS Data Model.

MMS Data Model Report contains detailed description on the structure and content of the MMS Data Model.

MMS DATA SUBSCRIPTION SERVICES USERS' GUIDE contains details for obtaining the MMS data model scripts for building and then subsequently maintaining your own database

and for subscribing to the files containing the data you need, which you normally then use to populate your local database.

The AEMO Helpdesk can be contacted on 1300 300 295 (Option 2).

# Contents

|       |  |     |
|-------|--|-----|
| 1     | Prelude .....  | ii  |
| 1.1   | Disclaimer .....                                     | ii  |
| 1.2   | Copyright Notice .....                               | ii  |
| 1.3   | Document Meta-information .....                      | iii |
| 1.3.1 | Version History .....                                | iii |
| 1.4   | Abbreviations .....                                  | iii |
| 1.5   | References .....                                     | iii |
| 2     | Introduction .....                                   | 1   |
| 3     | Implementation Instructions .....                    | 2   |
| 3.1   | Process Overview .....                               | 2   |
| 3.2   | Apply the MMS Data Model upgrades .....              | 2   |
| 3.3   | Subscribing to the New Files .....                   | 3   |
| 3.4   | Loading the Configuration .....                      | 3   |
| 3.5   | Activating the Report Type .....                     | 3   |
| 3.6   | Adjusting the pdrBatcher and pdrLoader threads ..... | 4   |
| 3.7   | Unsubscribe from the Legacy Files .....              | 4   |

## 2 Introduction

This document details how to install the MMS Data Model pdrLoader Configuration data to allow pdrLoader to read market systems data files to a Participant RDBMS with MMS Data Model and pdrLoader installed.

For existing users of pdrLoader, the updates to the configuration data are normally automatic, but there still remain some steps associated with client side configuration in order to activate new data feeds which are also covered in this document.

For release-specific information, including version identification and changes for the release, please refer to the *README.txt* file included in the release.

### 3 Implementation Instructions

All Participants are encouraged to use the PreProduction environment to test procedures and to train their users, before attempting any changes on Production systems.

#### Notes

- The following implementation steps assume that the user is familiar with the operation of the pdrLoader product.
- New Report Types configurations are delivered as inactive by default.
- New Report Record configurations are delivered as active by default.

#### 3.1 Process Overview

AEMO segregates the delivery of versioned data being supplied into separate files. This:

- allows AEMO and Participant systems to deliver and parse duplicated data feeds only for the transition period
- facilitates handling of large files that are not well-suited to multiple versions of data within a single file (e.g. NEXTDAY)
- provides clear visibility to participants when they have a dependency on a legacy data feed

Upon completion of the system upgrade on AEMO's systems, any report superseded as a part of the release automatically has its filename modified with a `_LEGACY` appended to the end of their filename. Participants continue to receive the same report versions after the AEMO implementation as they received before the AEMO implementation. The `_LEGACY` indicates that participants are receiving data in a superseded format, and should be upgrading their systems in accordance with the latest release of MMS Data Model.

Participants do not automatically receive the latest data feeds; Participants manage their data feed using the web-based MMS Data Subscriptions Service (see MMS DATA SUBSCRIPTION SERVICES USERS' GUIDE).

Participants who are subscribed to a `_LEGACY` data feed at the time of a MMS release are automatically advanced to the new `_LEGACY` report. This results in a cessation of data loading if the relevant pdrLoader Configurations and MMS Data Model changes are not applied.

As a result of this change, Participants must action upgrades to their systems according to the following sequence to avoid an interruption to data feeds:

1. Update the MMS data model pdrLoader Configuration (automatic delivery or apply manually)
2. Apply the MMS Data Model Database changes
3. Subscribe to the new and/or changed reports
4. Activate any new reports
5. Unsubscribe from the legacy reports

Note that the loading of the pdrLoader configuration updates may result in the automated deactivation of the report records in the `_LEGACY` report, unless the pdrLoader property "file\_load\_config\_versioned" is set TRUE which would be the recommended setting. This means that if the latest report has not been subscribed to, this can result in a loss of data to the Participant database.

#### 3.2 Apply the MMS Data Model upgrades

Apply the changes or full installation for the relevant version of the MMS Data Model to your existing installation.

### 3.3 Subscribing to the New Files

You need to subscribe to all the new and/or changed report types that are required. This can be completed by using “MMS Data Subscription Services” web interface. Further detail on using this service can be found in the “MMS Data Subscription Services Users’ Guide”.

Alternatively contact the AEMO Helpdesk and request to be allocated the required report types in the Pre-Production and Production systems. The AEMO Helpdesk can be contacted on 1300 300 295 (Option 2).

### 3.4 Loading the Configuration

The delivery of the pdrLoader Configurations for MMS Data Model supports a new installation or an upgrade from the configuration set as identified in the *README.txt* file. Participants should use the configurations appropriate to the state of their system.

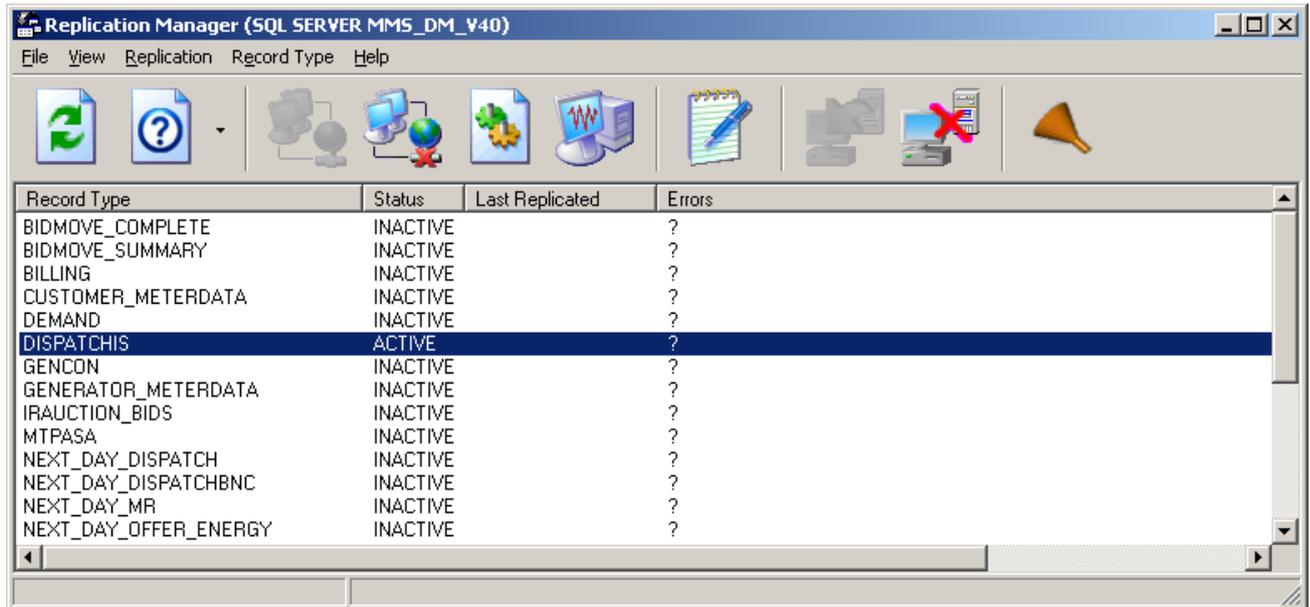
1. Unzip the files from the zip file of pdrLoader Configurations to a local directory. Use the zip file appropriate for your installation.
2. Copy the files to the pdrLoader reports directory and check the logs to ensure the configurations have been loaded.
3. Participant systems need to ensure the pdrLoader property “file\_load\_config\_versioned” is set to TRUE to avoid any loss of data during the upgrade.

Commencing from pdrLoader V7.1 new Report Records provided in PUBLIC\_PDR\_CONFIG\_\*.zip are processed as below when using the CONFIG\_UPDATE row filter:

1. Roll forward the IS\_ACTIVE status of the previous version (N-1) of the new Report Record when inserting an incremental version (N). This means that if a participant has chosen not to load data to a new table, this choice will be preserved in the newly created row.
2. Preserves the IS\_ACTIVE status of Report Record version (N) when updating an existing version during a PDR\_CONFIG file re-process. This means that if a participant has chosen not to load data to a new table and the same configuration set is re-applied, this choice will not be overwritten.

### 3.5 Activating the Report Type

Use Replication Manager to activate new report types from the main screen.



| Record Type           | Status        | Last Replicated | Errors |
|-----------------------|---------------|-----------------|--------|
| BIDMOVE_COMPLETE      | INACTIVE      |                 | ?      |
| BIDMOVE_SUMMARY       | INACTIVE      |                 | ?      |
| BILLING               | INACTIVE      |                 | ?      |
| CUSTOMER_METERDATA    | INACTIVE      |                 | ?      |
| DEMAND                | INACTIVE      |                 | ?      |
| <b>DISPATCHIS</b>     | <b>ACTIVE</b> |                 | ?      |
| GENCON                | INACTIVE      |                 | ?      |
| GENERATOR_METERDATA   | INACTIVE      |                 | ?      |
| IRAUCTION_BIDS        | INACTIVE      |                 | ?      |
| MTPASA                | INACTIVE      |                 | ?      |
| NEXT_DAY_DISPATCH     | INACTIVE      |                 | ?      |
| NEXT_DAY_DISPATCHBNC  | INACTIVE      |                 | ?      |
| NEXT_DAY_MR           | INACTIVE      |                 | ?      |
| NEXT_DAY_OFFER_ENERGY | INACTIVE      |                 | ?      |

### 3.6 Adjusting the pdrBatcher and pdrLoader threads

When a new report type is made active, the pdrBatcher and pdrLoader properties files should be reviewed. Specifically:

1. The properties associated with the pdrBatcher file masks ( file\_download\_thread\_{N}\_inc and file\_download\_thread\_{N}\_exc )
2. The properties associated with the pdrLoader file masks ( file\_load\_thread\_{N}\_inc and file\_load\_thread\_{N}\_exc )

Further detail on configuring the PDR properties can be found in the “Participant Data Replication Batcher User Guide” and “Participant Data Replication Loader User Guide”.

### 3.7 Unsubscribe from the Legacy Files

Once the transition has been completed, you may unsubscribe from the legacy files.

This can be completed by using “MMS Data Subscription Services” web interface. Further detail on using this service can be found in the “MMS Data Subscription Services Users’ Guide”