
**Western Australian Electricity Market
Build Pack
Usage Guidelines**



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Document history

Version	Date	Changes
2.0	6 Nov 2006	Initial version
2.1	8 Aug 2008	Updated as part of Build pack V2.1 revision Change document references to revised Build Pack documents Update Terms & Definitions Clarify file naming specifications Clarify infrastructure set-up, availability and testing processes
2.2	7 Dec 2013	Updated to comply with the Electricity Industry (Metering) Code 2012 (in accordance with Western Power's Final Proposal for Amendments to the SWIS Communication Rules).

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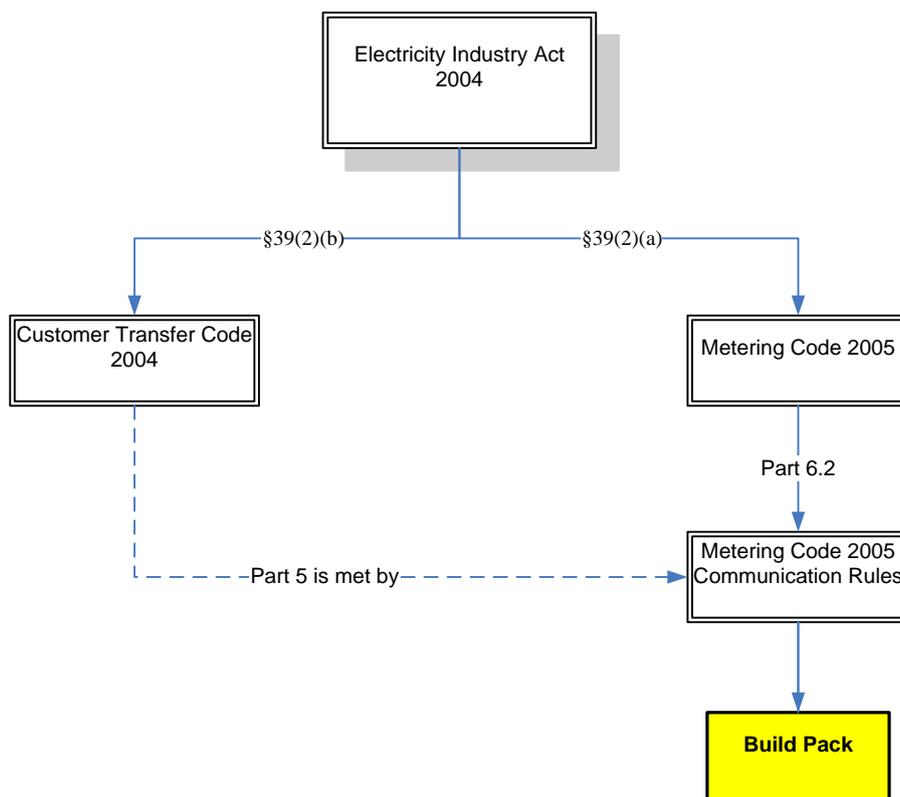
1 Introduction

1.1 Purpose

The purpose of this document is to provide an overview of the various documents that form the Build Pack for the Western Australian Electricity Market, and how each of these documents should be used.

Initially, the Build Pack was written to satisfy the requirements of the Customer Transfer Code Communication Rules. The Build Pack has been further developed to satisfy the requirements of the Metering Code Communication Rules and at a later stage, may be extended further to include additional processes and transactions to satisfy Market operation requirements.

The Build Pack will be maintained in such a way that its content will be in accordance with relevant legislation. The Authority to create and maintain the Build Pack is provided by the Metering Code 2005 Communication Rules. The legal and regulatory taxonomy of the Build Pack within Western Australia is illustrated in the below diagram.



In 2013 the Build Pack was amended to satisfy the requirements of the Electricity Industry (Metering) Code 2012. Part of the amendments were to update terms used.

As such, any references to:

- the Electricity Industry Customer Transfer Code 2004 or the Electricity Industry Metering Code 2005 Communication Rules should be read as referring to the SWIS Communication Rules
- the Electricity Industry Metering Code 2005 should be read as referring to the Electricity Industry Metering Code 2012
- Western Power's Electricity Industry Communication Rules should be read as referring to the SWIS Communication Rules.

1.2 Audience

The document has been written for Business and IT personnel within Code Participant organisations. It is expected that the audience will be familiar with the Western Australian Electricity Market, the reform process and all the relevant Acts.

1.3 Format of this document

Following this introduction, the Usage Guidelines presents an overview of the documents that form the Build Pack. Each of the documents will be introduced briefly.

The last chapter of the document provides details of other related documents to which the audience may wish to refer.

1.4 Management of the Build Pack

The Build Pack will be managed under the change management procedure described in the Electricity Industry Customer Transfer Code 2004 and Electricity Industry Metering Code 2005 Communication Rules.

The Build Pack will be posted on the Western Power website at:
<http://www.westernpower.com.au/mainContent/workingWithPower/NetworkAccessServices/MeteringCodeCommunicationsRules.html>.

2 Overview of the Build Pack

2.1 Contents

The following table provides an overview of the documents that comprise the Build Pack. The most recent version number of each document is provided to ensure that Participants are always working with the most up-to-date and accurate documentation.

Document	Version
Usage Guidelines	2.2
Customer Transfer and Standing Data Procedure	1.6
WA B2B Procedures: Meter Data Process	0.4
WA B2B Procedures: Customer and Site Details Process	0.8
WA B2B Procedures: Service Order Process	0.7
WA B2B Procedures: Technical Guidelines for B2B Procedures	0.5
WA B2B Procedures: Technical Delivery Specification	0.5
Streetlights Data CSV File Specification	9A
UMS Data CSV File Specification	0.4
WA B2B Processes: Participant Build Pack	0.4
Market Roles	0.1
Metering Service Centre User Task Manual (was the Web Portal User Guide)	Final Nov 2006
Metering Service Centre Functional Specification (was the Web Portal Functional Specification)	2.0
Infrastructure User Guide	2.1
List of Codes	2.1
Key to Codes used in the Build Pack	1.3
Glossary	2.1

NB: NMI Discovery and Bulk Standing Data Procedure is now included in the Customer Transfer and Standing Data Procedure.

3 Build Pack Documents

3.1 Usage Guidelines

The Usage Guidelines (this document) provide high-level detail of the Build Pack contents and an explanation of the intended use of each component.

3.2 Customer Transfer and Standing Data Procedure

The Customer Transfer and Standing Data Procedure document provides detail from the perspective of:

- describing the processes and functionality for both the transferring of customers as well as the management of standing data in the market, and
- specifying all relevant information required by a code participant (in relation to aseXML messaging) to transact with the network operator in the transferring of customers and the management of NMI standing data.

3.3 WA B2B Procedures

The WA B2B Procedures are a set of documents which define the processes and transaction data required for compliance by code participants in interacting with the network operator. Together, this suite of documents comprises:

- Meter Data Process;
- Customer and Site Details Process;
- Service Order Process;
- Technical Guidelines for B2B Procedures;
- Technical Delivery Specification; and
- Streetlights Data CSV File Specification
- UMS (non streetlights) Data CSV File Specification

The documents are based on original NEMMCO documents (<http://www.nemmco.com.au/retail/retail.html#BtoB>) which define how the National Electricity Market operates. Because the Western Australia Electricity Market operates very similarly to the NEM in many areas, it was decided that for these areas the Build Pack should use the NEM documentation, but with visible edits that enable participants to understand how the WAEM operates.

The documents should be interpreted as they read. Where information is not applicable to WA, and has not been excluded by the text (e.g. by stating 'Applicable in ACT and NSW only') then this text will be struck through. Where information is slightly different for WA participants, inapplicable text will be struck through and new **red text** will be inserted. Where there is additional information for WA participants, new **red text** will be inserted. Where large amounts of additional information needs to be included, new pages have been inserted – these are always numbered page 12a, page 12b, etc.

3.4 WA B2B Processes: Participant Build Pack

The WA B2B Processes: Participant Build Pack is a document that is designed to support the technical implementation of the WA B2B Procedures. This document integrates the technical details from each of the five WA B2B Procedures above and maps these to the waeXML schema.

This document is based on an original NEMMCO document. It has been edited, maintaining maximum visibility of the changes, in line with the approach adopted for the WA B2B Procedures.

3.5 Market Roles

The Market Roles document provides an overview of the roles carried out by code participants in the WA Electricity Market together with their rights and responsibilities.

3.6 Metering Service Centre User Task Manual

The Metering Service Centre User Task Manual contains step by step instructions (including screen shots) on the operation of the Web Portal.

3.7 Metering Service Centre Functional Specification

The Metering Service Centre Functional Specification contains process flows, sequence diagrams and an explanation of the operation of the Web Portal.

3.8 Infrastructure User Guide

The Infrastructure User Guide covers how FTP (file transfer protocol) is setup and the infrastructure to be used by code participants.

3.9 List of Codes

The List of Codes contains all attribute codes that are used in the WA Electricity Market Build Pack transactions where these are not fully elaborated in the separate Build Pack documents. Lists that contain many values, such as DLF Code values, are also provided in a CSV file that can be directly imported in the participants' systems.

3.10 Glossary

The Glossary provides definitions for the terminology used in the Western Australian Electricity Market and the Build Pack. This glossary supplements the glossaries that are provided in each of the Build Pack documents themselves, where more detailed and specific definitions are sometimes required.

4 Transaction Cross Reference

The table below provides a cross-reference to the relevant sections for each transaction covered by the Western Australian Electricity Market Build Pack.

Transaction	Western Australian Electricity Market Build Pack reference
NMI Discovery	NMI Discovery and Bulk Standing Data Procedure section 3.1
	Metering Service Centre Functional Specification section 3
NMI Standing Data Request	Customer Transfer and Standing Data Procedure section 3.1
	Metering Service Centre Functional Specification section 4
Historical Consumption Data	WA B2B Procedures: Meter Data Process
	Metering Service Centre Functional Specification section 5
Customer Transfer	Customer Transfer and Standing Data Procedure section 4
	Metering Service Centre Functional Specification section 6
Service Orders	WA B2B Procedures: Service Order Process
	Metering Service Centre Functional Specification section 9
Meter Data Verify	WA B2B Procedures: Meter Data Process
	Metering Service Centre Functional Specification section 7
Meter Data Notification	WA B2B Procedures: Meter Data Process
	Metering Service Centre Functional Specification section 7
Customer Data Request	WA B2B Procedures: Customer and Site Details Process
	Metering Service Centre Functional Specification section 8
Customer Data Notification	WA B2B Procedures: Customer and Site Details Process
	Metering Service Centre Functional Specification section 8
Site Address Notification	WA B2B Procedures: Customer and Site Details Process
	Metering Service Centre Functional Specification section 8
Site Access Notification	WA B2B Procedures: Customer and Site Details Process
	Metering Service Centre Functional Specification section 8
Standing Data Update Notification - single	Customer Transfer and Standing Data Procedure section 3
	Metering Service Centre Functional Specification section 4
NMI Standing Data Update Notification - Bulk	NMI Discovery and Bulk Standing Data Procedure section 3.2

5 Other Related Documents

The audience for the Western Australian Electricity Market Build Pack may also wish to refer to the following documents:

- Electricity Industry Act 2004 <http://www.ncc.gov.au/document.asp?documentID=3804>
- Electricity Industry Customer Transfer Code 2004
http://www.era.wa.gov.au/electricity/library/Customer_Transfer_Code_2004.pdf
- Electricity Industry Metering Code 2005
<http://www.era.wa.gov.au/electricity/meteringCode.cfm>
- Metering Code Communication Rules
<http://www.era.wa.gov.au/electricity/meteringCode.cfm> and select the link for the communication rules
- Guidelines for Development of a Standard for Energy Transactions in XML (aseXML) v2.1, published by NEMMCO and available at
<http://www.nemmco.com.au/asexml/guidelines.htm>
- waeXML schema R17_WA available at
<http://www.westernpower.com.au/mainContent/workingWithPower/NetworkAccessServices/MeteringCodeCommunicationsRules.html> > “XSD”
- NEM12 file format:
http://nemmco.com.au/met_sett_sra/mdff.html
- NEM13 file format:
http://nemmco.com.au/met_sett_sra/mdff.html
- Metrology Procedure:
<http://www.westernpower.com.au/mainContent/workingWithPower/NetworkAccessServices/MeteringCodeCommunicationsRules.html#Metrology>