

OVERVIEW OF MSATS FOR WESTERN AUSTRALIA

October 2016

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- For WA, the electricity retail function will operate in MSATS (Along with the NEM)
- How you:
 - interact with MSATS from an IT perspective
 - The business functions (high level) that MSATS satisfies
- What you will need to do, and when
- Supporting information

MSATS BUSINESS FUNCTIONS



- Energy allocation to participants for electricity settlement
 - Wholesale and Retail NMIs
 - Subset of NMI Standing data
 - Meter reads
 - Network model
- FRC market facilitation
 - Central store of NMI standing data
 - NMI Discovery
 - NMI Details (Meters, Registers, Participants and their Roles)
- B2B (Business to Business) platform/hub
 - Used by processes other than Retail electricity, i.e. OPDMS, NOS
- URM
 - User Right Management
 - Used by processes other than Retail electricity, i.e. EMMS, OPDMS, NOS

- To access MSATS, participants have to use MarketNet
- i.e. no internet access

- Batch
 - Used for B2B and B2M
 - High volume interface
 - FTP
 - Uses MSATS File Transfer protocol
 - aseXML files/messages
 - aseXML schema version transition process
 - Includes an archive of all sent and received files, approx. 12 months

- Browser
 - Used for B2B and B2M
 - Low volume interface
 - Supports current versions IE and Chrome browsers
- Web services
 - Small number of synchronous restful services via browser App server
- SMP
 - New interface for B2B for PoC – December 2017

- Participants Sending
 - NMI Change Requests (Transfers and Standing Data updates)
 - Metering data delivery to MSATS
 - Report Requests
 - NMI Discovery
- Participants Receiving
 - NMI Change Request notifications
 - NMI Standing Data updates
 - Metering data loading reports
 - Reporting output
 - NMI Discovery results
 - Settlement reconciliation reports

- Sending and Receiving B2B messages
- Searchable B2B message log, and transaction log
 - Approx. 12 months kept online
 - Accessed via the MSATS browser

- A system for creating Users and managing their Rights
- A Right defines the actions a User is allowed to undertake
- URM is used for a number of systems other than MSATS (e.g. EMMS, AWEFS, ASEFS, OPDMS)
- Creating Users and managing their Rights is self-service by participants

- When a participant is registered, a single Participant Administrator (PA) User is created
- The PA user is granted the PA Right
- The PA right is the super set of rights a participant can hold
- Participants then create their own Right definitions (subset of the PA Right)
- Participants then create Users, assign Rights and maintain Users
- The participant can create many PA Users (i.e. grant the PA Right)
- A User created by one Participant, can be used by another participant
 - The User can be made visible to the new Participant
 - The new Participant assigns their own Rights to that User

PROPOSED TIME LINE

- Up to December 2017
 - Participant connection to MSATS Pre-Production
 - Self-proving of interfaces
 - Earlier the better
- January 2018 to June 2018
 - WA configuration in MSATS Pre-Production
 - Repeated WA retail data loading into Pre-Production
 - Sandpit in Pre-Production
 - Market Trials in Pre-Production
- July 2018
 - Go-Live in MSATS for WA

WHAT YOU NEED TO DO

- Participants obtain MarketNet connection
- Participant registration in MSATS Pre-Production
- User creation in URM pre-production (Self-service)
- Participants exercising MSATS interfaces in pre-production
 - Browser
 - Batch
 - Web Services
- For MSATS, all of the above can occur from now
- The above is needed prior to any sandpit and market trial activity
- NB there are minimal participant facing changes to MSATS to support WA

- Market Settlement and Transfer Solutions page
 - <http://aemo.com.au/Electricity/National-Electricity-Market-NEM/Retail-and-metering/Market-Settlement-and-Transfer-Solutions>
 - Introduction to MSATS v10.0
 - Guide to MSATS Web Portal v11.00
 - Guide to User Rights Management v1.00
 - Guide to MSATS B2B v10.00
 - Participant Batcher Software v2.0.7
 - Guide to Participant Batcher Software v3.00
 - Validation Module Software v1.0.25
 - Guide to Validation Module Software v2.01
 - Technical Guide to Bulk Data Tool in MSATS
 - MSATS CATS Hints and Tips
 - MSATS CATS History Model
 - MSATS: NMI Discovery Questions and Answers
 - Standing Data for MSATS

- IT Systems and Change webpage
 - <http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/IT-systems-and-change>
 - Guide to Information Systems (has info about marketNet and setting up IT systems).
 - Connecting to AEMO's Electricity IT Systems: (Explains the IT interfaces available for electricity participants and how to access them).
- Metering Procedures, Guidelines and Processes page
 - <http://aemo.com.au/Electricity/National-Electricity-Market-NEM/Retail-and-metering/Metering-procedures-guidelines-and-processes>
 - (AEMO) MDM File Format and Load Process
 - FINAL Meter Data File Format Specification NEM12 & NEM13
 - NEM12 and NEM13 File Format Clarifications
 - NEM12 and NEM13 sample files

- Business-to-business procedures
 - <http://aemo.com.au/Electricity/National-Electricity-Market-NEM/Retail-and-metering/Business-to-business-procedures>
 - B2B Procedure Technical Guidelines for B2B Procedures v2.2
 - B2B Procedure Technical Delivery Specification v2.2
 - B2B Mapping to aseXML
- aseXML Page
 - http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/IT-systems-and-change/aseXML_standards
 - aseXML Change Process
 - aseXML Document Samples
 - aseXML Guidelines
 - aseXML Schemas
 - aseXML Schema Releases
 - Guide to Transition of aseXML