



# SHORT TERM TRADING MARKET: SETTLEMENT RECONCILIATION MAPPING

Published: **March 2015**





# IMPORTANT NOTICE

## Purpose

AEMO has prepared this document to provide information about the Short Term Trading Market for natural gas, as at the date of publication.

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# 1. INTRODUCTION

AEMO provides this guidance to STTM trading participants to help them reconcile provisional market data and settlement data provided.

The following pages illustrate the use of Market Information System (MIS) reports for the reconciliation of both provisional and settlement data. It enables trading participants to see where the report originates, facilitates an understanding of the relationships between the settlement calculations and the MIS reports.

For a full understanding of the settlement processes, it is recommended that readers refer to the [STTM Procedures](#) sections relevant to settlement.

For details of all the MIS reports, it is recommended that readers refer to the [STTM Reports Specifications](#).

## 1.1 Abbreviations

Abbreviation	Expanded name
AEMO	Australian Energy Market Operator
MIS	Market Information System
MSV	Market schedule variation
STTM	Short Term Trading Market

## 1.2 Market Information System (MIS) reports

Below is a list of the MIS reports that may be used by trading participants to assist in reconciling provisional data and settlement data.

Please remember to only use settlement MIS reports for the purpose of reconciling settlement data. All MIS reports for settlement have a settlement ID and are linked to data for that settlement run. Reports of provisional settlement calculations that are not settlement reports (such as the provisional report INT704v2) only reflect provisional data current when at the time report was generated, and should not be used to reconcile settlement statements.

### 1.2.1 Final data reports

The following reports are all finalised before any settlement calculations are performed and are applicable to reconciling both provisional settlement calculations and final settlement results.

- INT651 – Ex-ante Market Price
- INT652 – Ex-ante Schedule Quantity
- INT653v3 – Ex-ante Pipeline Data
- INT657 – Ex Post Market Data
- INT661 – Contingency Gas Called Schedule Bid Offer
- INT662 – Provisional Deviation Market Settlement
- INT663 – Provisional Variation and MOS Service Market Settlement
- INT664 – Daily Provisional MOS Allocation Data
- INT665 – MOS Stack Data
- INT666 – Market Notice



- INT667 – Market Parameters
- INT669 – Settlement Version
- INT671 – Hub Facility Definitions
- INT674 – Total Contingency Gas Schedules
- INT677 – Contingency Gas Price
- INT678 – Net Market Balance Daily Amounts
- INT680 – DP Flag Data
- INT690 – Deviation Price Data
- INT701 – Trading Participant Ex-ante Schedule
- INT705v3 – Trading Participant Registered Services v3
- INT706v2 – Trading Participant Trading Rights v2
- INT708 – Trading Participant Contingency Gas Schedules
- INT709 – Trading Participant Market Schedule Variation

### 1.2.2 Provisional data reports

Reports that are only relevant to **provisional** settlement calculations:

- INT658 – Latest Allocation Quantity
- INT681 – Daily Provisional Capacity Data
- INT683 – Provisional Used MOS Steps
- INT703 – Trading Participant Provisional Allocation
- INT704v2 – Trading Participant Deviation and Variation Data v2
- INT718 – Trading Participant Estimated Market Exposure Details

### 1.2.3 Settlement data reports

Reports that are only relevant to **formal** settlement calculations:

- INT679 – Net Market Balance Settlement Amounts
- INT682 – Settlement MOS and Capacity Data
- INT684 – Settlement Use MOS Steps
- INT710 – Trading Participant Settlement Amounts
- INT711 – Trading Participant Settlement Allocation Quantity
- INT712v2 – Trading Participant settlement MOS Allocations
- INT716 – Trading Participant Settlement Details
- Settlement statement



## 2. SETTLEMENT RECONCILIATION MAPPING

The table on the following pages summarises the sources of various market data that trading participants will need for reconciling settlements. Market data is divided into two groups:

- Provisional data, which may be revised prior to billing period settlement; and
- Settlement data, upon which billing period settlement is calculated.

As data may be updated prior to settlement (i.e., allocations), it is important that participants do not use provisional data for reconciling settlement statements.

### 2.1 Reconciliation mapping

The table on the following pages lists the MIS data sources organised under column headings:

- “Time period”: the data relates to a day or a billing period; or whether it is a standing market parameter.
- “Provisional data”: whether the provisional data is available to participants and, if so, where it can be found.
- “Settlement data”: whether the settlement data is available to participants and, if so, where it can be found.

For key calculations, a reference is provided to relevant sections in the STTM Rules (R) or the STTM Procedures (P) as well as the input data to the settlement calculations.

**Table 1 Reconciliation mapping**

Data type	Time period	Provisional data	Settlement data	Reference (R = STTM Rule) (P = STTM Procedure)	Settlement calculation input data
Mapping of facility identifier to facility type (E.g., how to deduce that a facility is a network or a pipeline)	Daily	INT671			
Administered state data	Daily	INT666			
DPFlag	Daily	INT680		P8.2.2(c)	
Market price limit information (E.g. value of MPC, APC etc.)	Market parameter / Daily	INT667			
CRN data	Daily	INT705v3 (Only consider active CRNs)			
TRN data	Daily	INT706v2 (Only consider active TRNs)			
Ex-ante schedule (Ex-ante market and pipeline flow direction constraints)	Daily	INT701 (Blank under market administered scheduling/settlement states)			
Ex-ante market price	Daily	INT651		P6.6.1	
Ex-ante payment	Daily	INT718		P10.3	<ul style="list-style-type: none"> <li>Ex-ante market price</li> <li>Market schedule quantities to the hub</li> </ul>
Ex-ante payment	Billing period		Settlement statement		
Ex-ante charge	Daily	INT718	INT710	P10.3	<ul style="list-style-type: none"> <li>Ex-ante market price</li> <li>Market schedule quantities from the hub</li> </ul>



Data type	Time period	Provisional data	Settlement data	Reference (R = STTM Rule) (P = STTM Procedure)	Settlement calculation input data
Ex-ante charge	Billing period		Settlement statement		
Pipeline flow direction constraint price	Daily	INT653v3		P6.6.1	
Constraint payment (Pipeline flow direction constraint)	Daily	INT718	INT710	P10.4	<ul style="list-style-type: none"> <li>Pipeline flow direction constraint price</li> <li>Market schedule quantities to the hub</li> </ul>
Constraint charge (Pipeline flow direction constraint)	Daily	INT718	INT710	P10.4	<ul style="list-style-type: none"> <li>Pipeline flow direction constraint price</li> <li>Market schedule quantities from the hub</li> </ul>
Contingency gas schedule	Daily	INT708			
Contingency gas price	Daily	INT677		R447, R448	
Contingency payment (Contingency gas)	Daily	INT718	INT710	P10.6	<ul style="list-style-type: none"> <li>High contingency gas price</li> <li>Contingency gas schedule quantity to increase net supply to the hub</li> </ul>
Contingency payment (Contingency gas)	Billing period		Settlement statement		
Contingency charge (Contingency gas)	Daily	INT718	INT710	P10.6	<ul style="list-style-type: none"> <li>Low contingency gas price</li> <li>Contingency gas schedule quantity to decrease net supply to the hub</li> </ul>
Contingency charge (Contingency gas)	Billing period		Settlement statement		
MSV data (Used in modified market schedule and variation quantity)	Daily	INT709 (Only consider confirmed MSVs. Data may be revised until 7 days after the gas day.)			



Data type	Time period	Provisional data	Settlement data	Reference (R = STTM Rule) (P = STTM Procedure)	Settlement calculation input data
Variation Quantity	Daily	INT704v2	INT716	P10.5.1, P10.5.2	<ul style="list-style-type: none"> <li>Cumulative changes to market schedule quantity due to MSVs that are subject to variation charges</li> </ul>
Variation parameter	Market parameter / Daily	National Gas Rules		R463	
Variation charge	Daily	INT704v2 and INT718	INT710	P10.5.3, P10.5.4, P10.5.5	<ul style="list-style-type: none"> <li>Variation charge calculated using the percentage method</li> <li>Variation charge calculated using the quantity method</li> </ul>
Variation charge	Billing period		Settlement statement		
CRN allocation, MOS allocation	Daily	INT703	INT712v2	R419	
Total allocation for a CRN	Daily	INT703 (Allocation data is time stamped. Use the relevant data for the settlement run.)			
TRN allocation quantity (Raw and scaled data)	Daily	INT703 (Use INT658 to derive scale factor as this needs to be applied to network user data)	INT711	R420	
Modified market schedule	Daily	Can be calculated from INT701, INT703, INT708, and INT709.	Can be calculated from INT701, INT708, INT709 and INT712v2.	P10.5.1, P10.8.1	<ul style="list-style-type: none"> <li>Market schedule quantities</li> <li>Allocations of MOS and overrun MOS</li> <li>Contingency gas schedule quantities</li> <li>MSVs</li> </ul>





Data type	Time period	Provisional data	Settlement data	Reference (R = STTM Rule) (P = STTM Procedure)	Settlement calculation input data
Ex post imbalance price	Daily	INT657	INT657	P6.6.2	
Deviation quantity	Daily	INT704v2	INT716	P10.8.2	<ul style="list-style-type: none"> <li>Modified market schedule quantity</li> <li>Allocation quantity</li> </ul>
Deviations price	Daily	INT690		P10.8.5	<ul style="list-style-type: none"> <li>Minimum deviation price</li> <li>Maximum deviation price</li> <li>Ex-ante market price</li> <li>Ex post imbalance price</li> <li>Low contingency gas price</li> <li>MOS decrease cost</li> <li>High contingency gas price</li> <li>MOS increase cost</li> </ul>
Deviation payment	Daily	INT704v2	INT710	P10.8.11	<ul style="list-style-type: none"> <li>Long deviation quantity</li> <li>Long deviation price</li> </ul>
Deviation payment	Billing period		Settlement statement		
Deviation charge	Daily	INT704v2	INT710	P10.8.11	<ul style="list-style-type: none"> <li>Short deviation quantity</li> <li>Short deviation price</li> </ul>
Deviation charge	Billing period		Settlement statement		
MOS stack	Market parameter / Daily	INT665			
Total MOS allocation (By facility)	Daily	INT664			
CRN MOS allocation (Including overrun MOS)	Daily	INT703	INT712v2		



Data type	Time period	Provisional data	Settlement data	Reference (R = STTM Rule) (P = STTM Procedure)	Settlement calculation input data
MOS step allocation	Daily	Participant own data	INT712v2		
MOS service payment	Daily	INT718	INT710	P10.7.3	<ul style="list-style-type: none"> <li>Fixed payment for MOS offers</li> <li>Quantity of MOS allocated to each MOS step</li> <li>Price of that MOS step</li> </ul>
MOS service payment	Billing period		Settlement statement		
MOS cash-out charge	Daily	INT718	INT710	P10.7.4	<ul style="list-style-type: none"> <li>Ex-ante market price</li> <li>MOS quantity on gas day d-2</li> </ul>
MOS cash-out charge	Billing period		Settlement statement		
MOS cash-out payment	Daily	INT718	INT710	P10.7.4	<ul style="list-style-type: none"> <li>Ex-ante market price</li> <li>MOS quantity on gas day d-2</li> </ul>
MOS cash-out payment	Billing period		Settlement statement		
MOS overrun increase price	Daily	Can be estimated from INT664, INT665 and INT683.	Can be estimated from INT665, INT682 and INT684.	P10.7.1	<ul style="list-style-type: none"> <li>Quantity of MOS allocated to each MOS increase step</li> <li>Price of that MOS increase step</li> <li>Total MOS increase quantity</li> <li>Maximum MOS increase step price</li> </ul>
MOS overrun decrease price	Daily	Can be estimated from INT664, INT665 and INT683.	Can be estimated from INT665, INT682 and INT684.	P10.7.2	<ul style="list-style-type: none"> <li>Quantity of MOS allocated to each MOS decrease step</li> <li>Price of that MOS decrease step</li> <li>Total MOS decrease quantity</li> <li>Maximum MOS decrease step price</li> </ul>



Data type	Time period	Provisional data	Settlement data	Reference (R = STTM Rule) (P = STTM Procedure)	Settlement calculation input data
Overrun MOS service payment	Daily	INT718	INT710	P10.7.3	<ul style="list-style-type: none"> <li>Overrun MOS increase price</li> <li>Overrun MOS increase quantity</li> <li>Overrun MOS decrease price</li> <li>Overrun MOS decrease quantity</li> </ul>
Overrun MOS service payment	Billing period		Settlement statement		
Overrun MOS cash-out charge	Daily	INT718	INT710	P10.7.4	<ul style="list-style-type: none"> <li>Ex-ante market price</li> <li>Overrun MOS overrun quantity on gas day d-2</li> </ul>
Overrun MOS cash-out charge	Billing period		Settlement statement		
Overrun MOS cash-out payment	Daily	INT718	INT710	P10.7.4	<ul style="list-style-type: none"> <li>Ex-ante market price</li> <li>Overrun MOS quantity on gas day d-2</li> </ul>
Overrun MOS cash-out payment	Billing period		Settlement statement		
Capacity price	Daily	INT653v3			
Effective capacity charge rate	Daily	Can be derived from INT653v3 and INT681	Can be derived from INT653v3 and INT682	P10.9.1, P10.9.2	<ul style="list-style-type: none"> <li>Capacity price</li> <li>Capacity quantity</li> <li>Total quantity of as available gas</li> </ul>
Effective capacity payment rate	Daily	Can be derived from INT653v3 and INT681	Can be derived from INT653v3 and INT682	P10.9.1, P10.9.2	<ul style="list-style-type: none"> <li>Capacity price</li> <li>Capacity quantity</li> <li>Total quantity of firm gas</li> </ul>
Capacity payment	Daily	INT718	INT710	P10.9.3	<ul style="list-style-type: none"> <li>Effective capacity payment rate</li> <li>Deemed firm gas quantity</li> <li>Effective allocated gas quantity</li> </ul>



Data type	Time period	Provisional data	Settlement data	Reference (R = STTM Rule) (P = STTM Procedure)	Settlement calculation input data
Capacity payment	Billing period		Settlement statement		
Capacity charge	Daily	INT718	INT710	P10.9.3	<ul style="list-style-type: none"> <li>• Effective capacity charge rate</li> <li>• Effective allocated gas quantity</li> </ul>
Capacity charge	Billing period		Settlement statement		
Ad hoc payment	Daily	INT718	INT710	P8.4.4	<ul style="list-style-type: none"> <li>• Deviation charge</li> <li>• Deviation payment</li> <li>• Ex-ante market price</li> <li>• Market schedule quantities to the hub on a STTM facility</li> <li>• Market schedule quantities from the hub on a STTM facility</li> <li>• Market schedule quantities from the hub using a registered distribution service</li> </ul>
Ad hoc payment	Billing period		Settlement statement		
Ad hoc charge	Daily	INT718	INT710	P8.4.4	<ul style="list-style-type: none"> <li>• Deviation charge</li> <li>• Deviation payment</li> <li>• Ex-ante market price</li> <li>• Market schedule quantities to the hub on a STTM facility</li> <li>• Market schedule quantities from the hub on a STTM facility</li> <li>• Market schedule quantities from the hub using a registered distribution service</li> </ul>



Data type	Time period	Provisional data	Settlement data	Reference (R = STTM Rule) (P = STTM Procedure)	Settlement calculation input data
Ad hoc charge	Billing period		Settlement statement		
Market fee	Market parameter	AEMO website: <a href="http://www.aemo.com.au/About-the-Industry/Registration/Fees-and-Charges">http://www.aemo.com.au/About-the-Industry/Registration/Fees-and-Charges</a>		R Part15A Division 3	
Participant compensation fund	Market parameter	AEMO website: <a href="http://www.aemo.com.au/About-the-Industry/Registration/Fees-and-Charges">http://www.aemo.com.au/About-the-Industry/Registration/Fees-and-Charges</a>		R452	
Total market surplus or shortfall (NMB)	Billing period to date	INT678	INT679	P10.10.1	<ul style="list-style-type: none"> <li>Gross market income</li> <li>Gross market outcome</li> </ul>
Total market surplus or shortfall intermediate data (MktC, PFDCC, CGC, MosC, DevC, SCC, etc.)	Daily	Can be derived from INT651, INT652, INT653v3, INT677, INT674, INT663, INT662 and INT681.	Can be derived from INT651, INT652, INT653v3, INT677, INT674, INT663, INT679 and INT682.	P10.10.1	<ul style="list-style-type: none"> <li>Gross market income</li> <li>Gross market outcome</li> </ul>
Surplus shortfall payment	Billing period to date	INT718 The contents of this can be derived from INT678, INT658, INT703, INT704 and INT680.	INT710	P10.10	<ul style="list-style-type: none"> <li>Surplus and shortfall allocation based on billing period deviations</li> <li>Residual surplus and shortfall allocation based on withdrawals</li> </ul>
Surplus shortfall payment	Billing period		Settlement statement		



Data type	Time period	Provisional data	Settlement data	Reference (R = STTM Rule) (P = STTM Procedure)	Settlement calculation input data
Surplus shortfall charge	Billing period to date	INT718 The contents of this can be derived from INT678, INT658, INT703, INT704 and INT680.	INT710	P10.10	<ul style="list-style-type: none"> <li>Surplus and shortfall allocation based on billing period deviations</li> <li>Residual surplus and shortfall allocation based on withdrawals</li> </ul>
Surplus shortfall charge	Billing period		Settlement statement		
GST	Billing period to date	INT718	INT710		
GST	Billing period		Settlement statement		
Interest	Settlement run		INT669		

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**Note** Allocation data and MSVs may be updated after the report is published. Hence, different data may be used in INT704v2. The later the data is obtained, the more stable it will be.

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