

## Release Notes

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### **OASIS 6.0.4**

Version 1.1


**December 27, 2011**

Template Version No:	1.0
Template Version Date:	08/09/2011
Effective Date:	08/09/2011

<b>Release Notes</b>
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## REVISION HISTORY

VERSION NO.	DATE	DESCRIPTION
1.0	10/03/2011	Initial version
1.1	12/16/2011	Updated the API Specifications section

 <b>California ISO</b> <small>Shaping a Renewed Future</small>	Template Version No:	1.0
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## Release Identification

<b>Application/System Name</b>	<b>OASIS</b>
<b>Version Identifier</b>	6.0.4
<b>Production Release</b>	December 2011 Release
<b>Project Name</b>	n/a

## New Functionality Included

### **Availability of four new OASIS contingency-dispatch reports:**

#### **Contingency Dispatch Intertie Constraint Shadow Prices / API Query “PRC\_CD\_RTM\_FLOWGATE”**

This report is similar to the existing “*Interval Intertie Constraint Shadow Prices*” report, but for Real Time Contingency Dispatch<sup>1</sup> (RTCD) runs. Posts the 10-Minute constraint pricing at Transmission Interfaces and Intertie Constraints in \$/MWh, for the RTCD run in the RTM.

#### **Contingency Dispatch Nomogram/Branch Shadow Prices / API Query “PRC\_CD\_RTM\_NOMOGRAM”**

This report is similar to the existing “*Interval Nomogram/Branch Shadow Prices*” report, but for Real Time Contingency Dispatch<sup>1</sup> (RTCD) runs. Posts the 10-Minute constraint pricing at each Nomogram and Branch in \$/MWh, for the RTCD run in the RTM.

#### **Contingency Dispatch Resource Schedules / API Query “ENE\_CD\_SLRS”**


This report is similar to the existing “*System Load and Resource Schedules*” report, but for Real Time Contingency Dispatch<sup>1</sup> (RTCD) runs. RTM Generation, Import and Export per TAC Area and CAISO total, in MW for all 10-minute RTCD runs.

#### **Contingency Dispatch Locational Marginal Prices (LMP) / API Query “PRC\_CD\_INTVL\_LMP”**

This report is similar to the existing “*Interval Locational Marginal Prices (LMP)*” report, but for Real Time Contingency Dispatch<sup>1</sup> (RTCD) runs. Posts the ten-minute Locational Marginal Prices for PNodes and APNodes in \$/MWh, for each ten-minute interval RTCD. Posts the LMP, plus the Congestion, Loss and Energy Components that makes up the LMP.

A publication & revision log will be posted signifying data availability on any of these new reports, ie based on real-time contingency dispatch market results. The “operating interval” of the publication & revision log will correspond to the MM (minute) portion of the contingency startdatetime. For example, if the real-time contingency dispatch market has a startdatetime of “10:18:00 AM”, then the publication & revision log “operating interval” will be “18”; as opposed to the standard “1” to “12” interval values.

<sup>1</sup> For additional information on Contingency Dispatches, see the BPM for Market Operations, Section 7.9.

 <b>California ISO</b> <small>Shaping a Renewed Future</small>	Template Version No:	1.0
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## Variations and Issues Addressed

Release 6.0.4 affects **data** posted on the following real-time market (RTD/5-minute) Interval Locational Marginal Prices Publication & Revision Log, Interval Shadow Price, and System Load Resource Schedules reports:

### Interval Intertie Constraint Shadow Prices

*Variance:* Invalid data postings with “Interval=0” (zero) records. This occurs when the real-time market is ran under contingency conditions with a 10-minute market interval duration, as opposed to 5 minutes.

Per deployment of OASIS 6.0.4, records with “Interval=0” must no longer be evident on the “*Interval Intertie Constraint Shadow Prices*” report. Whereas the intertie constraint shadow prices that resulted from the real-time contingency dispatch market will be separately referenced on the new “*Contingency Dispatch Intertie Constraint Shadow Prices*” report.

### Interval Nomogram/Branch Shadow Prices

*Variance:* Invalid data postings with “Interval=0” (zero) records. This occurs when the real-time market is ran under contingency conditions with a 10-minute market interval duration, as opposed to 5 minutes.

Per deployment of OASIS 6.0.4, records with “Interval=0” must no longer be evident on the “*Interval Nomogram/Branch Shadow Prices*” report. Whereas nomogram/branch shadow prices that resulted from the real-time contingency dispatch market will be separately referenced on the new “*Contingency Dispatch Intertie Constraint Shadow Prices*” report.

### System Load and Resources Schedules

*Variance:* Missing or abnormally high values of the export, import, and/or generation schedule totals. These data occurrences exist when the real-time market is ran under contingency conditions (1 or more times), with a 10-minute market interval duration, as opposed to 5 minutes.


Per deployment of OASIS 6.0.4, schedule totals that were outputs from the real-time dispatch RTD/5-minute market will be posted on the pre-existing “*System Load and Resources Schedules*” report. Whereas schedules that resulted from the real-time contingency dispatch market will be separately referenced on the new “*Contingency Dispatch Resource Schedules*” report.

### Interval Locational Marginal Prices LMP – Publication & Revision Log

*Variance:* Invalid data postings with “Interval=0” (zero) records on the RTD Locational Marginal Prices LMP publication & revision log entries. This occurs when the real-time market is ran under contingency conditions with a 10-minute market interval duration, as opposed to 5 minutes.

Per deployment of OASIS 6.0.4, publication & revision log records with “Interval=0” must no longer be evident on for the “*Interval LMP*” RTD/5-minute publication report. There are no occurrences of “Interval=0” data postings on the Interval LMP report output, yet for consistency with the availability of the new contingency dispatch reports for shadow prices and system schedules reports, the nodal LMP prices that resulted from the real-time contingency dispatch market will be separately referenced on the new “*Contingency Dispatch Locational Marginal Prices (LMP)*” report.

Post-market price corrections will continue to be available on the pre-existing “*Interval Locational Marginal Prices LMP*” report - RTD/5-minute level.

 <b>California ISO</b> <small>Shaping a Renewed Future</small>	Template Version No:	1.0
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# OASIS API Specifications

The following updated technical specifications document (Version 3.08.2) and accompanying schema file for OASIS 6.0.4 can be accessed at the following location:

[http://www.caiso.com/Documents/Open%20Access%20Same-Time%20Information%20System%20\(OASIS\)](http://www.caiso.com/Documents/Open%20Access%20Same-Time%20Information%20System%20(OASIS)) under the “*Technical Specifications/Interface Specification/Version 3\_08*” folder.

- Interface Specification for OASIS 3.08.2 - Clean
- Interface Specification for OASIS 3.08.2 – Redline
- OASIS Production Environment Artifacts Package
- OASIS Map-Stage Environment Artifacts Package
- OASIS Stage Environment Artifacts Package

Please note of the different instances of the (same) schema OASISReport.xsd file:

- *Production Environment Schema File OASISReport.xsd* - this has a namespace domain referring to “oasis.caiso.com “ applicable for the Production environment
- *MAP-Stage Environment Schema File OASISReport.xsd* - this has a namespace domain referring to “oasismap.caiso.com “ applicable for the MAP-Stage environment
- *Stage Environment Schema File OASISReport.xsd* - this has a namespace domain referring to “oasismktsim.caiso.com “ applicable for the Stage environment

All of these XSD files have an internal annotation referring to the OASIS Interface Specification v3.08 supporting document.

These other schema files located in the packages above do **not** have any changes per OASIS 6.0.4, but are contained here to reference the complete set of OASIS artifacts.

- OASISMaster.xsd
- OASISBid.xsd
- OASISCBBid.xsd

For development code migration purposes, please note that the namespace domain in the schema definition file (XSD) is environment-dependent as follows:

Environment	Namespace Domain
Market and Performance Stage	oasismap.caiso.com
Stage	oasismktsim.caiso.com
Production	oasis.caiso.com

Market participants who opt to download any of the four new reports (XML) and validate against the schema file must use the updated “*OASISReport.xsd*” schema file posted. When retrieving data for the new contingency dispatch reports, it is recommended that users confirm the existence of data via the “Publication and Revisions Log” postings.