

Release Notes

OASIS 6.2.0

Version 1.2

December 12, 2012

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

Release Notes

REVISION HISTORY

VERSION NO.	DATE	DESCRIPTION
1.0	07/17/2012	Initial version
1.1	09/05/2012	Changes to point to the incremented/corrected artifacts package
1.2	12/12/2012	Updated for production deployment

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Release Identification

Application/System Name	OASIS
Version Identifier	6.2.0
Production Release	Fall 2012 Release
Related Projects	Data Release and Accessibility Phase 3 Transmission Reliability Margin Commitment Costs Refinement 2012

New Functionality Included

Project: Data Release and Accessibility Phase 3, availability of the following new reports-

- Public Bids Category: Congestion Revenue Rights (CRR) Public Bids***
 Bids submitted and used in the CRR auction markets, with certain fields replaced by pseudo data as indicated. Posted for the monthly auctions 90 days after the close of markets and seasonal auctions after each relevant quarter has passed. The Public Bid Data is downloadable to XML and CSV only, for a single market at a time.
- Energy Category: Aggregated Generation Outages***
 Generator de-rates and outages which are considered in the Day-Ahead Market. Report is generated from the list of de-rates and outages that are known at the time of publication, typically 5:00 AM PPT the day prior to the operating day. Aggregated into a total MW capacity reduction amount by trading hub (NP15, ZP26, and SP15) and resource type (thermal, hydro, renewable).
- System Demand Category: Wind and Solar Forecast***
 Forecast and actual wind and solar generation by hour. Aggregated by trading hub (NP15, ZP26, and SP15). Day-Ahead forecast is posted daily in advance of the Day-Ahead Market, Hour-Ahead forecast is posted in advance of each HASP market. Actual production is posted the day after the operating day. Note: to ensure a high level of accuracy only Eligible Intermittent Resources (EIR), including those that participate in the Participating Intermittent Resource program (PIRP) are included in the report.

A publication & revision log will be posted signifying data availability on any of these new reports.

Project: Transmission Reliability Margin, enhancements to the following existing reports-

Transmission Category: Current Transmission Usage, Transmission Interface Usage

Both of these reports will be enhanced to add the following new reporting data elements:

- TRM Total***
 Transmission Reliability Margin is the amount of transmission transfer capability reserved in DAM to ensure that the interconnected transmission network is secure under a reasonable range of uncertainties in system conditions.
- Unscheduled flow***
 TRM component to model amount of transfer capacity necessary to ensure that the interconnected transmission network will be secure by accounting for energy that is flowing on parallel paths where it is not scheduled.

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- Topology Uncertainty**
 TRM component to model amount of transfer capacity necessary to ensure that the interconnected transmission network will be secure by accounting for forecast uncertainty in transmission topology (e.g., unplanned outages).
- Simultaneous Path Interaction**
 TRM component to model amount of transfer capacity necessary to ensure that the interconnected transmission network will be secure by accounting for the impact of simultaneous path interactions between an Intertie scheduling path and another transmission path that is outside the ISO's Balancing Authority Area.

In addition to the **new** data reporting elements outlined above, the following **existing** data reporting elements will be newly referred to as follows:

Current (Label/Formula)	Fall Release (Label/Formula)
TTC	Seasonal TTC
OTC OTC=TTC -TRM - Constraint	Hourly TTC Hourly TTC = Seasonal TTC – Constraint
ATC ATC = OTC (TTC-CBM-Constraint)-AS from Imports-Scheduled Net Energy from Imports/Exports-Hourly Unscheduled Transmission Rights Capacity.	ATC ATC = Hourly TTC – TRM Total – CBM - AS from Imports-Scheduled Net Energy from Imports/Exports-Hourly Unscheduled Transmission Rights Capacity.

Project: Commitment Costs Refinement 2012, availability of the following new report-

- Prices Category: Greenhouse Gas Allowance Index Price**
 For each real-time trade date, posts the index price for the California Carbon Allowance in \$/allowance. Used to validate default energy bids and startup and minimum load costs for resources subject to the California greenhouse gas compliance obligation. For validating day-ahead bids, use the index price from the previous day's trade date.

A publication & revision log will be posted signifying data availability on this new report.

Application release OASIS 6.2.0 will likewise include a brand new look-n-feel of the user-interface GUI.

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Report Summary:

The following table lists the affected user-interface reports and API query names under the OASIS Fall Release 2012 deployment:

Graphical User-Interface (GUI) Report	Application Programming Interface (API)		Market
	Single Query	Group Query	
Wind and Solar Forecast	SLD_REN_FCST		DAM HASP ACTUAL
Aggregated Generation Outages	AGGR_OUTAGE_SCH		n/a
Congestion Revenue Rights (CRR) Public Bids		PUB_CRR_BID_SEASONAL_GRP	Seasonal
		PUB_CRR_BID_MONTHLY_GRP	Monthly
Current Transmission Usage	TRNS_CURR_USAGE		n/a
Transmission Interface Usage	TRNS_USAGE		DAM HASP
Greenhouse Gas Allowance Index Price	PRC_GHG_ALLOWANCE		n/a

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Variations and Issues Addressed

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OASIS API Specifications

The updated technical specifications document version 3.10.1 and accompanying schema file for application release OASIS 6.2.0 can be accessed at:

<http://www.caiso.com/informed/Pages/ReleasePlanning/Default.aspx>, under the Fall 2012 release, OASIS *Technical specifications* subheading

- Interface Specification for OASIS 3.10.1 - Clean
- Interface Specification for OASIS 3.10.1 – Redline

The interface specifications document has been updated (per last posting v3.10.0) to correct the name of the Wind/Solar Forecast report from “RENEWABLE_FCST” to “SLD_REN_FCST”; updated the data element name AUCTION_CLOSE_DATE to AUCTIONCLOSEDATE for the CRR Public Bid report.

- MAP-Stage Environment Schema File Package 3.10.1

These same specifications are also accessible at the Application Access page, under the OASIS sub-heading at <http://www.caiso.com/participate/Pages/ApplicationAccess/Default.aspx>

Artifacts package contents:

Schema Name	Notes
OASISMaster.xsd	
OASISBid.xsd	No changes to existing files per Fall Release 2012 deployment; yet files combined in the package above to reference the complete set of OASIS artifacts
OASISCBBid.xsd	
OASISReport.xsd	Updated file, to reflect the report enhancements per Fall Release 2012 <i>Note: Per last artifacts posting in July 2012, this schema file has been updated to add the new TRM reporting data elements needed for the Transmission reports; and to correct the name of the Wind/Solar Forecast report from “RENEWABLE_FCST” to “SLD_REN_FCST”;</i>
OASISCRRPublicBid.xsd	Applicable for the new CRR Public Bid report <i>Note: Per last artifacts posting in July 2012, this schema file has been updated to remove the INTERVAL data element under the REPORT_HEADER section.</i>

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
Production	oasis.caiso.com

Market participants who opt to download any of the enhanced/new reports in XML format and validate against the schema file must use the newly available schema files posted.