

Release Notes

Open Access Same-Time Information System

Fall 2016

OASIS 6.9.x

Version 1.0

August 18, 2016

REVISION HISTORY

VERSION NO.	DATE	DESCRIPTION
1.0	08/18/2016	Initial version

Release Identification

Application/System Name	OASIS - Open Access Same-Time Information System
Version Identifier	6.9.x
Production Release	Fall 2016 Release
Projects	<ul style="list-style-type: none"> • Energy Imbalance Market (EIM) year 1 enhancements phase 2 • Flexible ramping product

Graphical User-Interface Application

<i>Project: Energy Imbalance Market year 1 enhancements phase 2</i>		
Report	Menu	Description
Scheduling Constraint Shadow Prices	Prices	A new report that will provide the scheduling constraint shadow prices and scheduling limits such as: BAA POWER BALANCE, BAA TRANSFER DISTRIBUTION, BAA TRANSFER LOWER LIMIT, BAA TRANSFER UPPER LIMIT, ETSR LOWER LIMIT, ETSR TRANSMISSION COST, ETSR UPPER LIMIT, etc.
Intertie Constraint Shadow Prices (RTPD) Interval Intertie Constraint Shadow Prices	Prices	The scheduling constraint shadow prices and scheduling limits will cease publication on these existing reports, as this information will exist on the new report noted above as the “ <i>Scheduling Constraint Shadow Prices</i> ”.
Scheduling Point/Tie Locational Marginal Prices Interval Scheduling Point /Tie Locational Marginal Prices FMM Scheduling Point/Tie Locational Marginal Prices Contingency Dispatch Scheduling Point /Tie Locational Marginal Prices	Prices	These existing reports will be enhanced to provide the Energy, Loss, Greenhouse Gas components in addition to the currently existing LMP and Congestion records of the scheduling point and tie combination.
EIM BAA Hourly Base NSI	Energy	A new report that will provide the hourly base net scheduled interchange (NSI) for each of the balancing authority areas at the T-40, T-55, and T-75 timeframes.
EIM BAA Hourly Base Loss	Energy	A new report that will provide the hourly base loss for each of the balancing authority areas at the T-40, T-55, and T-75 timeframes.
Public Bids	Public Bids	The real-time market report xml and csv downloads will include a new product “GHG” (Greenhouse Gas).

Project: Flexible ramping product														
Report	Menu	Description												
Advisory CAISO Demand Forecast	System Demand	A new report that will provide the demand forecast for the first advisory interval resulting from each of the RTPD/15min and RTD/5min market runs, for the CAISO-TAC and other balancing authority areas (BAA).												
CAISO Demand Forecast CAISO Peak Demand Forecast	System Demand	<p>The EIM balancing authority areas (BAA) “TAC Area Name” values on these existing reports will appear/output as follows, upon flexible ramping product activation.</p> <table border="1"> <thead> <tr> <th><i>Pre-Activation EIM BAA names</i></th> <th><i>Post-Activation EIM BAA Names</i></th> </tr> </thead> <tbody> <tr> <td>PACE-TAC</td> <td>PACE</td> </tr> <tr> <td>PACW-TAC</td> <td>PACW</td> </tr> <tr> <td>NEVP-TAC</td> <td>NEVP</td> </tr> <tr> <td></td> <td>AZPS (new)</td> </tr> <tr> <td></td> <td>PSEI (new)</td> </tr> </tbody> </table>	<i>Pre-Activation EIM BAA names</i>	<i>Post-Activation EIM BAA Names</i>	PACE-TAC	PACE	PACW-TAC	PACW	NEVP-TAC	NEVP		AZPS (new)		PSEI (new)
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Sufficiency Evaluation Demand Forecast	System Demand	A new report that will provide the hourly and 15-minute unbiased demand forecast. The report will display 24 hours of forecast with hourly and 15-minutes granularity for each publication time. System will retain records for seven calendar days from publish date.												
Uncertainty Movement by Category	Energy	A new report that will provide the RTD/5min Uncertainty Movement (mw) for each resource category (Supply, Intertie, and Load) by BAA and EIM Area (each defined as a BAA Group). “EIM Area” shall represent the constraint applied to the entire EIM Footprint.												
Flexible Ramp Requirements	Energy	<p>Upon activation of the Flexible Ramping Product initiative, the following report columns will be null:</p> <ul style="list-style-type: none"> Flexible Ramp Constraint Requirement (mw) Flexible Ramp Sufficiency Test Requirement’s Net Demand Movement Component <p>The Flexible Ramp Sufficiency Test Requirement’s Uncertainty Component value will continue to be published, for both “UP” and “DOWN” Ramp Types.</p> <p>This existing report will have an API “<i>ENE_FLEX_RAMP_REQT</i>” available, likewise its corresponding user-interface xml and csv report downloads, that conforms to the API output structure.</p>												
Flexible Ramp Surplus Demand Curves	Energy	A new report that will provide the RTPD/15minute and RTD/5-minute interval flexible ramping up/down surplus demand curve composed of 11 mw and \$/mwh segments, for each balancing authority areas (BAA) and the EIM Area.												
Flexible Ramp Aggregated Awards	Energy	A new report that will provide the flexible ramping up/down aggregated award totals (MW) for each balancing authority areas (BAA) and the EIM Area, resulting from RTPD/15minute and RTD/5-minute market runs. “EIM Area” shall represent the constraint applied to the entire EIM Footprint.												
EIM Transfer by Tie	Energy	This existing report will have its corresponding API “ <i>ENE_EIM_TRANSFER_TIE</i> ” available, likewise its user-interface xml and csv downloads.												

Application Programming Interface (API)

In relation to the user-interface report changes, the following high-level table summarizes the fall 2016 API enhancements:

Project: Energy Imbalance Market year 1 enhancements phase 2														
Change	API	Description												
New	PRC_RTM_SCH_CNSTR v4	New API to provide the real-time market scheduling constraints shadow prices.												
New	ENE_HRLY_BASE_NSI v4	New API to provide the hourly base NSI T-40, T-55, and T-75 values.												
New	ENE_HRLY_BASE_LOSS v4	New API to provide the hourly base loss T-40, T-55, and T-75 values.												
Update	PRC_SPTIE_LMP v4 PRC_CD_SPTIE_LMP v4 DAM_SPTIE_LMP_GRP v4 RTPD_SPTIE_LMP_GRP v4 RTD_SPTIE_LMP_GRP v4	Version 4 of these existing APIs will output the Loss, Energy, GHG components, in addition to LMP and Congestion.												
Update	PUB_BID v2	Version 2 of this existing public bid API will output the "GHG" product type.												
Project: Flexible ramping product														
Change	API	Description												
New	SLD_ADV_FCST v4	New API to provide the real-time first advisory interval forecast; data retention period is seven days.												
Data	SLD_FCST v1 SLD_FCST_PEAK v1	<p>The EIM balancing authority areas (BAA) "TAC Area Name" values on these existing reports will output as follows, upon flexible ramping product activation.</p> <table border="1"> <thead> <tr> <th>Pre-Activation EIM BAA names</th> <th>Post-Activation EIM BAA Names</th> </tr> </thead> <tbody> <tr> <td>PACE-TAC</td> <td>PACE</td> </tr> <tr> <td>PACW-TAC</td> <td>PACW</td> </tr> <tr> <td>NEVP-TAC</td> <td>NEVP</td> </tr> <tr> <td></td> <td>AZPS (new)</td> </tr> <tr> <td></td> <td>PSEI (new)</td> </tr> </tbody> </table>	Pre-Activation EIM BAA names	Post-Activation EIM BAA Names	PACE-TAC	PACE	PACW-TAC	PACW	NEVP-TAC	NEVP		AZPS (new)		PSEI (new)
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New	ENE_UNCERTAINTY_MV v4	New API to provide the MW uncertainty movement for the different resource categories- Supply, Intertie, and Load.												
New	ENE_FLEX_RAMP_REQT v4	New API to provide the flexible ramping requirement at 15 and 5 minute intervals. This API corresponds to a currently existing user-interface report "Flexible Ramp Requirements".												
New	ENE_FLEX_RAMP_DC v4	New API to provide the Up/Down flexible ramping demand curves at 15 and 5 minute intervals for each BAA/EIM Area constraint.												
New	ENE_AGGR_FLEX_RAMP v4	New API to provide the real-time aggregated Up/Down flexible ramping awards for each BAA/EIM Area constraint.												
New	SLD_SF_EVAL_DMD_FCST v4	New API to provide the hourly and 15-minute demand forecast for each BAA/EIM Area constraint.												

New	ENE_EIM_TRANSFER_TIE v4	New API based on an existing user-interface report “ <i>EIM Transfer by Tie</i> ”.
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For further API details, please refer to the posted technical documents on the **Release Planning / Fall 2016 release / OASIS technical specifications** at <http://www.caiso.com/informed/Pages/ReleasePlanning/Default.aspx>.