California ISO
Shaping a Renewed Future

Interface Specification for OASIS
(~~Independent 2015~~Fall 2016 Release)

Version: 4.~~2.7~~3.0

~~03/31/2015~~04/04/2016

Revision History

Date	Version	Description	Author
Sep 23, 2013	4.0.0	Initial release of GMT 2013 services to Market Participants. Pre-GMT tech specs and it's version history is at http://www.caiso.com/Documents/InterfaceSpecifications-OASISv3_12_0.pdf	AM, EC
Oct 24, 2013	4.0.1	Minor corrections and updates	AM
Nov 26, 2013	4.0.2	Removed deprecated group CRR1_GRP and corrected report names available under RTM1_GRP and HASP1_GRP. Removed alternate URL for CURR_LMP_GRP. StartDateTime and version parameters are now mandatory for all reports.	AM
Dec 15, 2013	4.0.3	PRC_LMP URL typo correction. Update for PRC_FLEX_RAMP and PRC_FLEX_RAMP_CURR. Updated files in groups HASP_MPM_SD_PRC_GRP, RTPD_MPM_SD_PRC_GRP, DAM_MPM_LMP_GRP	AM
Jan 22, 2014	4.1.1	Merge FERC764 tech spec changes on top of latest GMT release tech spec. Updated current Transmission usage, Demand forecast, Renewable forecast sections for 15-min interval data.	AM, EC
Mar 4th, 2014	4.1.2	Renamed query parameter for SLD_FCST to be execution_type instead of exec_type for RTM market_run_id	AM
Mar 12, 2014	4.1.3	Added additional report query parameters for TRNS_USAGE and TRNS_CURR_USAGE	AM
Mar 18, 2014	4.2.0	Changes for Fall 2014/EIM release. Added new reports: • PRC_EIM_GHG – EIM GHG shadow price • ENE_EIM_TRANSFER_LIMITS – EIM Transfer limits • ENE_EIM_TRANSFER – EIM Transfer • ENE_EIM_DYN_NSI – EIM BAA Dynamic NSI • ENE_BASE_NSI – BAA Base NSI Updated reports: • PRC_FLEX_RAMP_CURR and PRC_FLEX_RAMP for new baa_grp_id attribute	AM, EC

		• PRC_CNSTR, PRC_RTM_FLOWGATE, PRC_CD_RTM_FLOWGATE, PRC_MPM_CNSTR, PRC_MPM_CNSTR_CMP, PRC_MPM_RTM_FLOWGATE to include new Constraint Type (Physical, Scheduling) • PRC_INTVL_LMP,PRC_CURR_LMP,PRC_HASP _LMP, PRC_RTPD_LMP, PRC_MPM_RTM_LMP to include GHG LMP component in the output • ENE_EA updated for two new energy types for Base Schedule and EIM manual dispatch. • ENE_MPM for new baa_id attribute OasisReport.xsd version will be moving from v1 to v2 for the new/changed reports.	
Jun 30, 2014	4.2.1	PRC_HASP_LMP correction to include GHG LMP component in the output.	AM
Aug 12,2014	4.2.2	• Removed newly added Constraint type element from the following reports to roll back to previous version v1 PRC_CNSTR,PRC_RTM_FLOWGATE, PRC_CD_RTM_FLOWGATE, PRC_MPM_CNSTR, PRC_MPM_CNSTR_CMP, PRC_MPM_RTM_FLOWGATE • Updated the URLs to add enddatetime element to the following reports PRC_FLEX_RAMP • Added sample URLs for market_run_id =ALL for the following reports ENE_EIM_TRANSFER_LIMITS ENE_EIM_TRANSFER ENE_EIM_DYN_NSI • Removed non-existent report PRC_FLEX_RAMP_CURR from the document.	AJ, EC
Dec 04, 2014	4.2.3	Add new reports for the January 2015 release: Major version=3; Minor version=20150101 • PRC_SPTIE_LMP - Scheduling Point Tie Combination Locational Marginal Prices (LMP) • PRC_CD_SPTIE_LMP - Contingency Dispatch Scheduling Point Tie Combination Locational Marginal Prices (LMP)	HX, EC

			Per Fall Release 2014 EIM, added version 2 sample URLs for the following reports: PRC_INTVL_LMP, PRC_CURR_LMP, PRC_HASP_LMP, PRC_RTPD_LMP, PRC_MPM_RTM_LMP; where version=2 includes the GHG LMP component in the output	
Dec 19, 2014	4.2.4	• Removed the HASP market sample URLs for the new report PRC_SPTIE_LMP • Corrected the version # for the group report URLs: DAM_SPTIE_LMP_GRP, RTPD_SPTIE_LMP_GRP, RTD_SPTIE_LMP_GRP – should be version 3		EC
Feb 18, 2015	4.2.5	• Updated CB Public Bids to add new Flowgate field (PUB_CB_BID) • Update CB Reference Prices to add new TIE_NAME field (PRC_DS_REF) • Add new report ATL_CBNODE		HX / EC
Mar 12, 2015	4.2.6	• Updated occurrences of "*Spring 2015*" to "*Independent 2015*" release in the document		EC
Mar 30, 2015	4.2.7	• Corrected the PRC_DS_REF sample single zip URLs • Updated Section 11 Long/Short Day section to add notes about HE25 and HE03		EC

Apr 7, 2016	4.2.44.3.0	Fall 2016 Release changes
		
		New services
		  • service PRC_RTM_SCH_CNSTR (Scheduling Constraint Shadow Prices)
		  • service SLD_ADV_FCST (Advisory CAISO Demand Forecast)
		  • service ENE_HRLY_BASE_NSI (EIM BAA Hourly Base NSI)
		  • service ENE_UNCERTAINTY_MV (Uncertainty Movement by Category)
		  • service ENE_FLEX_RAMP_REQT (Flexible Ramp Requirements)
		  • service ENE_AGGR_FLEX_RAMP (Flex Ramp Aggr Awards)
		  • service ENE_FLEX_RAMP_DC (Flex Ramp Surplus Demand Curves)
		Update to existing services
		  • Updated PRC_SPTIE_LMP service to include LMP_ENE_PRC, LMP_LOSS_PRC AND LMP_GHG_PRC elements
		  • Updated PRC_CD_SPTIE_LMP service to include LMP_ENE_PRC, LMP_LOSS_PRC AND LMP_GHG_PRC elements
		  • Updated PRC_MPM_RTM_LMP service to extend the support for RTD LMPM
				AJ, EC

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| | | | Updated PRC_MPM_RTM_NOMOGRAM to extend the support for RTD LMPM Updated PRC_MPM_RTM_NOMOGRAM_CMP to extend the support for RTD LMPM Updated PRC_MPM_RTM_FLOWGATE to extend the support for RTD LMPM Updated PRC_MPM_CNSTR_CMP to extend the support for RTD LMPM Updated PRC_MPM_RTM_REF_BUS to extend the support for RTD LMPM Updated PUB_BID to include GHG market product
Other document corrections csv format to "6" under section 3.1.3 Maximum download to only one hour for PRC_RTPD_LMP | |

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Table of Contents

1.   Overview

This document explains the functionality of the Open Access Same-Time Information System (OASIS) API. In this document the following are described:

- ❖ Background of OASIS.
- ❖ URL Parameter definitions for requesting OASIS data.
- ❖ Naming Convention for Returned OASIS files.
- ❖ Schema (XSD) for returned OASIS XML data.

1.1 Background – Time Horizons

The California Independent System Operator's (CAISO) Open Access Same-time information System (OASIS) provides energy market and power grid information to the public and market participants, through reports with real time updates. This information includes the following:

- ❖ System load requirements
- ❖ Market Price information
- ❖ Transmission availability
- ❖ System demand conditions

The data is categorized into three groups:

Category	Description
OASIS Data	This is the CAISO operational and market data.
Public Bids	This is the Public Bid data published after 90 days.
Atlas Data	This is the reference data supporting OASIS Data.

Its own XSD Schema, described in this document, supports each category.

To automate the download of the OASIS report data in XML, the information in this document describes the OASIS XML format and the download procedures, including URL examples associated with the XML data files.

Time Horizons for CAISO Public Data postings:

- **GMT version services for ISO Market**

  The URL for the GMT version of the OASIS API web services is
  http://oasis.caiso.com/oasisapi

  This API document describes the functions for this version of OASIS.

2. Data Request to API

CAISO's OASIS is redesigned to adapt to the changes in the markets and grid operations initiated by the New ISO Market program. However, the technology of the new OASIS for downloading data is quite similar to the existing OASIS. The process of obtaining data from OASIS by automation using its API can be described as queries implemented through URL Servlet requests. It can be defined as sending URL requests with parameters to the OASIS web servers, from the Users web client.

2.1 API URL for single reports

Single report request will be using the servlet called SingleZip. The return of XML in CIM format will be based on XSDs specified above. The data content will be based on the type parameters will be passed to the SingleZip request. To illustrate the URL and its parameters, we show the pattern that would return an XML file based on the Schemas.

```
URL?queryname=<A>&startdatetime=<D>&enddatetime=<D>&market_run_id=<A>&version
=<A>&varParameters

Where:
    URL = http://oasiswebsite/context-path/SingleZip

    For production : oasiswebsite = oasis.caiso.com
                     context-path = oasisapi
    For mapstage   : oasiswebsite = oasis.caiso.com
                     context-path = oasisapi

Mandatory Parameters:
    startdatetime = valid operating start datetime in GMT
(yyyymmddThh24:miZ)
    enddatetime = valid operating end datetime in GMT (yyyymmddThh24:miZ)
        which is equal or greater than <startdate>
    queryname = valid reportname,
        refer to the XML Query Name in the document
    market_run_id =  valid market type
    version =  API version (1 for the GMT 2013 release)


Variable Parameters:
    varParameters
        variable Parameters are defined for each Report
        and its specific Filter options
```

2.1.1. Example URL for the ISO Market *Simulation* Environment

To illustrate the use of the URL and its parameters, we show an example based on the pattern above: This string indicates the proper path to query data that exists in our Market Simulation Environment.

```
http://oasismap.caiso.com/oasisapi/SingleZip?queryname=AS_REQ&
startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-
0000&market_run_id=DAM&version=1&as_type=ALL&as_region=ALL
```

2.1.2.   Example URL for the ISO Market Production Environment

To illustrate the use of the URL and its parameters, we show an example based on the pattern above. This string indicates the proper path to query the data for Trading Days beginning with the deployment of the New ISO Market:

```
http://oasis.caiso.com/oasisapi/SingleZip?queryname=AS_REQ&
startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-
0000&market_run_id=DAM& version=v1&as_type=ALL&version=1&as_region=ALL
```

2.2.   API URL for Group Reports

The group reports depends on the servlet called GroupZip. The GroupZip is going to call a group of singleZips. The XML's embedded in the Zip file will be based on the group type. The data content will be for entire day that the user is going to be requested at a given time you can only request for single day.

To illustrate the URL and its parameters, we show the pattern that would return an XML files based on the Schemas.

```
URL?groupid=<A>&startdatetime=<D>&enddatetime=<D>&version=<A>

Where:
     URL = http://<oasiswebsite>/oasisapi/GroupZip

     For Production : <oasiswebsite> is oasis.caiso.com
     For MAPStage   : <oasiswebsite> is oasismap.caiso.com


Mandatory Parameters:
     Groupid  = valid groupid
     startdatetime = valid operating start datetime with timezone
offset(yyyymmddThh24:miZ)
     enddatetime = valid operating end datetime with timezone offset
(yyyymmddThh24:miZ)
               (Only applicable for HASP,RTM groups)
     version =  API version (1 for the GMT 2013 release)
```

2.2.1 Example URL

To illustrate the use of the URL and its parameters, we show an example based on the pattern above:

```
Example 1: http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_LMP_GRP&
startdatetime=20130919T07:00-0000&version=1

Example 2: http://oasis.caiso.com/oasisapi/GroupZip?groupid=HASP_LMP_GRP&
startdatetime=20130919T07:00-0000&enddatetime=20130919T08:00-0000&version=1
```

3.   Returned XML File

For every request sent to the OASIS web server, the web server will return a "zip" compressed file. In case of single report or group zip functionality, the user then unzips the file to extract the actual XML file/ files, for further processing by any business or report generation application.

3.1   File Names for single and group

The returned files will use the following naming convention for singlezip:

```
startdate_enddate_Report Name_MktRunID_Stamp#_Version.Zip
```

Within this zip file, the XML file will use the following naming convention:

```
startdate_enddate_Report Name_MktRunID_Stamp#_Version.XML
```

The returned files will use the following naming convention for groupzip:

```
startdate_startDate_GroupID_N_xml_Version.Zip
```

Within this zip file, the XML file will use the following naming convention:

```
startdate_startdate_Report Name_MktRunID_Version.XML
```

XML Examples:
20131115_20131115_ENE_CB_AWARDS_GRP_N_N_v1_xml.zip
        20131115_20131115_ENE_CB_AWARDS_N_v1.xml
20131115_20131115_CURR_LMP_GRP_10_N_v1_xml.zip
        20131115_20131115_PRC_CURR_LMP_RTM_10_v1.xml
20131104_20131105_AS_REQ_RTM_20131115_09_44_44_v1_xml.zip
        20131104_20131105_AS_REQ_RTM_20131115_09_44_44_v1.xml

CSV Examples:
20131115_20131115_CURR_LMP_GRP_10_N_v1_xml.zip
        20131115_20131115_PRC_CURR_LMP_RTM_10_v1.xml
20131013_20131013_CB_NODAL_LMT_GRP_N_N_v1_csv.zip
        20131013_20131013_CB_NODAL_LIMITS_N_v1.csv
20131104_20131105_AS_REQ_RTM_20131115_09_44_44_v1_csv.zip
        20131104_20131105_AS_REQ_RTM_20131115_09_44_44_v1.csv

3.1.1 XML Format

The structure of the XML (e**X**tensible **M**arkup **L**anguage) format file is based on standard CAISO CIM XML. It is generated by using Servlet call to the common reporting web services framework and using XSLT the xml files will be translated to CIM XML based on xml schemas. The CIM XML is zipped and sent to the requesting users as response, similar to the OASIS operation today.

OASIS will continue to comply with FERC interface requirements and associated implementation standards as it does today. The CAISO believes the use of XML provides information that is more valuable to the end user, and reduces overall development costs as changes occur in the future.

To learn more about the reporting interface and download functionality, please browse through our on-line **OASIS HELP**. Additional support can be obtained by contacting us through the **OASIS Support link**.

3.1.2 XML Schemas

Three XML schemas are developed to conform to the CIM XML standard support data delivery from the OASIS application. ~~The schemas are **OASISReport_v1.xsd, OASISBid_v1.xsd, OASISCBBid_v1.xsd, OASISCRRPublicBid_v1.xsd and OASISMaster_v1.xsd.**~~ Each XML file, when downloaded, will point to the most current version of the Schema.

With the GMT 2013 release, all services will start with V1 and future releases will support the current and previous schemas.

For ~~EIM/~~Fall201~~6~~4 release, OASISReport.xsd will be moving to version v~~4~~2.

XSD	Category	Description
OASISReport_v~~4~~2.xsd	**OASIS Data**	This is the primary schema by which OASIS returns operational and market data.
OASISBid_v~~2~~1.xsd	**Public Bids**	OASIS returns Public Bid data by this schema. This schema is a derivative of the bid schema used by market participants to submit bids and schedules.
OASISCBBid_v~~2~~1.xsd	**Public CB Bids**	OASIS returns CB Public Bid data by this schema. This schema is a derivative of the CB bid schema used by market participants to submit CB bids.
OASISMaster_v1.xsd	**Atlas Data**	This schema is tailored to the Atlas / Reference data portion of OASIS.
OASISCRRPublicBid_v1.xsd	**CRR Bid Data**	OASIS returns CRR Bid data by this schema. This schema is a derivative of the CRR bid schema.

3.1.3 CSV Format

Please note that with the GMT 2013 release version, the CSV format will now return the data elements in the top down format similar to XML in terms of overall layout. There will be the header and the fields will be separated with a comma, but the pivot feature where the hours go across like in the UI is now going away.

The element in the URL resultformat=65 will extract the data in CSV format. If resultformat= element is not in the URL string, the default format will be XML.

The CSV format with the pivot hours across will continue to be supported in the pre-GMT 2013 OASIS web services.

For certain CSV reports that were pivoted across in pre-GMT services, an additional column called "group" will be added as the last column in the GMT version of the CSV reports. Here is the list of the impacted reports:

- AGGR_OUTAGE_SCH
- AS_MILEAGE_CALC
- AS_MILEAGE
- AS_REQ
- AS_RESULTS
- ATL_LDF
- ATL_PEAK_ON_OFF
- CB_NODAL_LIMITS
- CMMT_RA_MLC
- CMMT_RMR
- ENE_CB_AWARDS
- ENE_CB_CLR_AWARDS
- ENE_CB_MKT_SUM
- ENE_DISP
- ENE_EA
- ENE_LOSS
- ENE_MPM
- ENE_SLRS
- PRC_AS
- PRC_CD_INTVL_LMP

- PRC_CD_RTM_FLOWGATE
- PRC_CD_RTM_NOMOGRAM
- PRC_CNSTR
- PRC_CURR_HUB_LMP
- PRC_FLEX_RAMP
  -

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- PRC_FUEL
- PRC_GHG_ALLOWANCE
- PRC_HASP_LMP
- PRC_INTVL_AS
- PRC_INTVL_LMP
- PRC_LMP
- PRC_MPM_CNSTR_CMP
- PRC_MPM_CNSTR
- PRC_MPM_LMP
- PRC_MPM_NOMOGRAM_CMP
- PRC_MPM_NOMOGRAM
- PRC_MPM_REF_BUS
- PRC_MPM_RTM_FLOWGATE_CMP
- PRC_MPM_RTM_FLOWGATE
- PRC_MPM_RTM_LMP
- PRC_MPM_RTM_NOMOGRAM_CMP
- PRC_MPM_RTM_NOMOGRAM
- PRC_MPM_RTM_REF_BUS
- PRC_NOMOGRAM
- PRC_RTM_FLOWGATE
- PRC_RTM_NOMOGRAM
- PUB_CURR_LMP
- SLD_FCST
- SLD_REN_FCST

- TRNS_ATC
- TRNS_CURR_USAGE
- TRNS_USAGE

3.2 Errors

The XML API will throw errors based on the situation and those are described below. In the XML file, if there is any error comes because of different reasons will be thrown with both error code and error description. The Users will know the valid reason for failure. The error codes and descriptions are described below.

Error Code	Error Description
1000	No data returned for the specified selection.
1001	Invalid Parameters of the given report name.
1002	Invalid datetime format, please use valid datetime format.
1003	Timed out waiting for query response.
1004	Data can be requested for period of 31 days only.
1005	Report name does not exist, please use valid report name.
1006	Validation exception during transformation of XML.
1007	Required file for does not exist.
1008	Out of memory exception.
1009	Exceptions in reading and writing of XML files.
1010	System Error.
1011	Empty Query; Please Enter Report Name, Startdate, EndDate and Other Parameters.
1012	Connection refused.
1013	Required Resources (xslt or xml or dir) Unavailable.
1014	Start Date is beyond the limit, Please Use valid Start Date that falls within the prescribed limit.
1015	GroupZip DownLoad is in Processing, Please Submit request after Sometime
1016	GROUPID Does Not Exist, Please Use Valid GROUPID Name

1017   Please select a maximum of 10 nodes or use the ALL option

1018   Invalid Selection, cannot select multiple hours for this query

1019   market_term=ALL not supported for this query

1020   Version parameter is missing or is invalid

4. Recommended Usage

By observing the Publication and Revisions Log and Publication Schedule reports, users can submit the requests more efficiently. We strongly recommend first to find out whether the data is already published to the OASIS database. Once the required data is published then submit the requests for the required reports. This way the user can eliminate unnecessary requests for the required data.

5. Reports and Xml Data Items

This section contains an overview listing of the individual types of result sets returned from OASIS, corresponding to the online OASIS reports.

Report/ResultSet	XML Name	XML Data Items	Description
PRICES			
Locational Marginal Prices (LMP) Hourly Locational Marginal Prices for all PNodes and APNodes in $/MWh. For the DAM, posts the LMP, plus the Congestion, Loss and Energy Components that make up the LMP. For the RUC, only the LMP will be posted.	PRC_LMP	LMP_CONG_PRC LMP_ENE_PRC LMP_LOSS_PRC LMP_PRC	LMP - Congestion Component; LMP - Energy Component; LMP - Losses Component; LMP for each Pnode and APnode;
Scheduling Point Tie Combination Locational Marginal Prices (LMP) Scheduling Point Tie Combination Locational Marginal Prices for market DAM, RTPD/FMM, and RTD in $/MWh.	PRC_SPTIE_LMP	LMP_CONG_PRC LMP_PRC LMP_ENE_PRC LMP_LOSS_PRC LMP_GHG_PRC	LMP - Congestion Component; LMP for each node tie combination; LMP - Energy Component; LMP - Losses Component LMP – GHG Component
HASP Locational Marginal Prices (LMP) Posts hourly, the 4 15-minute Locational Marginal Prices in $/MWh, for the HASP hour. Posts the LMP, plus the Congestion, Loss and Energy Components that make up the LMP. Posts the HASP *Binding* LMP for PNodes and APNodes relevant to Hourly Pre-Dispatched Resources. Posts the HASP *Advisory* LMP for PNodes and APnodes relevant to the Non-Hourly Pre-Dispatch Resources. For HASP, SC's should always utilize the CMRI posted price as the valid price for shadow-settlement purposes.	PRC_HASP_LMP	LMP_CONG_PRC LMP_ENE_PRC LMP_LOSS_PRC LMP_PRC LMP_GHG_PRC	LMP - Congestion Component; LMP - Energy Component; LMP - Losses Component; LMP for each Pnode and APnode GHG price for EIM pnode and apnode

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Report/ResultSet	XML Name	XML Data Items	Description
RTPD Locational Marginal Prices (LMP) 15-minute Locational Marginal Prices for all PNodes and APNodes in $/MWh.	PRC_RTPD_LMP	LMP_CONG_PRC LMP_ENE_PRC LMP_LOSS_PRC LMP_PRC LMP_GHG_PRC	LMP - Congestion Component; LMP - Energy Component; LMP - Losses Component; LMP for each Pnode and APnode GHG price for EIM pnode and apnode
Interval Locational Marginal Prices (LMP) Five-minute Locational Marginal Prices for all PNodes and all APNodes in $/MWh, for each five-minute interval RTM. Posts the LMP, plus the Congestion, Loss and Energy Components that makes up the LMP. Node on the report will include Pnodes and APnodes in ISO, EIM and non-EIM external networks	PRC_INTVL_LMP	LMP_CONG_PRC LMP_ENE_PRC LMP_LOSS_PRC LMP_PRC LMP_GHG_PRC	LMP - Congestion Component; LMP - Energy Component; LMP - Losses Component; LMP for each Pnode and APnode; GHG price for EIM pnode and apnode
AS Clearing Prices Ancillary Services Regional Shadow Prices for all Ancillary Service types at each AS Region and Sub-Regional Partition. Posted hourly in $/MW for the DAM and HASP.	PRC_AS	NS_CLR_PRC RD_CLR_PRC RU_CLR_PRC SP_CLR_PRC RMD_CLR_PRC RMU_CLR_PRC	NonSpin Cleared Price; Regulation Down Cleared Price; Regulation Up Cleared Price; Spin Cleared Price; Regulation Mileage Down Cleared Price. Regulation Mileage Up Cleared Price
Interval AS Clearing Prices Ancillary Services Regional Shadow Prices for all Ancillary Service types at each AS Region and Sub-Regional Partition. Posts in $/MW. Posts 15-Minute price relevant to the next 15 minute binding interval for RTM on a fifteen minute basis.	PRC_INTVL_AS	NS_CLR_PRC RD_CLR_PRC RU_CLR_PRC SP_CLR_PRC RMD_CLR_PRC RMU_CLR_PRC	NonSpin Cleared Price; RegulationDown Cleared Price; RegulationUp Cleared Price; Spin Cleared Price; Regulation Mileage Down Cleared Price. Regulation Mileage Up Cleared Price.
Intertie Constraint Shadow Prices Posts the hourly constraint pricing at Transmission Interfaces and Intertie Constraints, for each Market Process (DAM,HASP) in $/MWh, and the 15-Minute Shadow Price in $/MWh for the RTM. Report will also include an indication of whether the Constraints were binding because of the base operating conditions or contingencies, and if caused by a Contingency, the identity of the specific Contingency. Transmission ID includes both ISO and EIM ITC ID	PRC_CNSTR	SHADOW_PRC REASON	Shadow price by Transmission Interface and Intertie Constraint Will indicate either "Base Case" or specific Contingency ID.
Fuel Prices For each Gas Flow Day, lists the gas price in $/mmBtu by fuel region.	PRC_FUEL	FUEL_PRC	Daily Gas Price.

Report/ResultSet	XML Name	XML Data Items	Description
Current Locational Marginal Price This report is available for download only. Lists Five min Locational Marginal Prices for all Generator PNodes and all APNodes for the current interval. (Returns the most recently posted interval only) Use SingleZip function if specific nodes are required; use GroupZip for downloading if all nodes are required. Node on the report will include Pnodes and APnodes in ISO, EIM and non-EIM external networks	PRC_CURR_LMP	LMP_CONG_PRC LMP_ENE_PRC LMP_LOSS_PRC LMP_PRC LMP_GHG_PRC	LMP - Congestion Component; LMP - Energy Component; LMP - Losses Component; LMP for each Pnode and APnode; GHG price for EIM pnode and apnode
Nomogram/Branch Shadow Prices Posts the hourly constraint pricing at each Nomogram and Branch, for each Market Process (DAM, HASP) in $/MWh, and the 15-Minute Shadow Price in $/MWh for the RTPD in RTM. Report will also include an indication of whether the Constraints were binding because of the base operating conditions or contingencies, and if caused by a Contingency, the identity of the specific Contingency.	PRC_NOMOGRAM	SHADOW_PRC <m:REASON>	Shadow price by Nomogram or Branch. Will indicate either "Base Case" or specific Contingency ID.
Interval Nomogram/Branch Shadow Prices Posts the 5 minute constraint pricing at each Nomogram and Branch, for each Market Process (RTM) in $/MWh. Report will also include an indication of whether the Constraints were binding because of the base operating conditions or contingencies, and if caused by a Contingency, the identity of the specific Contingency.	PRC_RTM_NOMOGRAM	SHADOW_PRC <m:REASON>	Shadow price by Nomogram or Branch. Will indicate either "Base Case" or specific Contingency ID.
Interval Intertie Constraint Shadow Prices Posts the 5 minute constraint pricing at Transmission Interfaces and Intertie Constraints in $/MWh Report will also include an indication of whether the Constraints were binding because of the base operating conditions or contingencies, and if caused by a Contingency, the identity of the specific Contingency.	PRC_RTM_FLOWGATE	SHADOW_PRC REASON	Shadow price by Transmission Interface and Intertie Constraint) Will indicate either "Base Case" or specific Contingency ID.
Scheduling Constraint Shadow Prices Posts the 15 minute and 5 minute scheduling constraint shadow prices in $/MWh.	PRC_RTM_SCH_CNSTR	SHADOW_PRC CNSTR_TYPE BAA TRANSFER UPPER LIMIT ETSR UPPER LIMIT ETSR LOWER LIMIT	Shadow price by Scheduling Constraint Some of the possible values are

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Report/ResultSet	XML Name	XML Data Items	Description
		BAA TRANSFER LOWER LIMIT	
		BAA TRANSFER UPPER LIMIT	
		BAA TRANSFER DISTRIBUTION	
		BAA POWER BALANCE	
		BAA TRANSFER LOWER LIMIT	
		ETSR TRANSMISSION COST	
-Reference Prices Quarterly Reference prices associated with each node based on historical data, posted for Convergence Bidding purposes.	PRC_DS_REF	SPLY_PRC DMD_PRC	Supply Component Demand Component
Nodal Group Constraints This report displays the upper and lower MW limits, cleared MW value and associated hourly shadow prices for any binding Nodal Group Constraint. Additionally, the list of Eligible Pnodes included in the Nodal Group Constraint is displayed. This report is triggered with the publication of the Day-Ahead results.	CB_NODAL_GRP_CNSTR_PRC	SHADOW_PRC CLEARED_MW MAXIMUM_LIMIT MINIMUM_LIMIT	Shadow price by Nodal Constraint Group Cleared Price Maximum Limit of the Price Minimum Limit of the Price
System Ramping Nomogram Results	PRC_FLEX_RAMP	MKT_RUN_START_TIME MKT_TYPE RAMP_UP_CAP_REQ RAMP_UP_SHADOW_PRC RAMP_DOWN_CAP_REQ RAMP_DOWN_SHADOW_PRC BAA_GRP_ID	Indicates the start time of the market run in pacific Time format An identifier which specifies the market run type (DAM.RTPD & RTD) Upward raming capacity nomogram results Shadow price of the upward ramping nomogram results Downward ramping capacity nomogram results. Shadow price of the downward nomogram results. EIM Area group ids (ISO, PACE, PACW, ISO_PACW, ISO_PACE, PACE_PACW,ISO_PACW_PACE)

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Report/ResultSet	XML Name	XML Data Items	Description
Contingency Dispatch Locational Marginal Prices Similar to the Interval Locational Marginal Prices (LMP) report, but for Real Time Contingency Dispatch (RTCD) runs. Posts the ten-minute Locational Marginal Prices for PNodes and APNodes in $/MWh, for each ten-minute interval RTCD.	PRC_CD_INTVL_LMP	LMP_CONG_PRC LMP_ENE_PRC LMP_LOSS_PRC	LMP Marginal Cost of Congestion for ten-minute Contingency Dispatch. LMP Marginal Cost of Energy for ten-minute Contingency Dispatch. LMP Marginal Cost of Losses for ten-minute Contingency Dispatch.
Contingency Dispatch Scheduling Point Tie Combination Locational Marginal Prices This is for Real Time Contingency Dispatch (RTCD) runs. Posts the ten-minute Locational Marginal Prices for node tie in $/MWh, for each ten-minute interval RTCD.	PRC_CD_SPTIE_LMP	LMP_CONG_PRC LMP_PRC LMP_ENE_PRC LMP_LOSS_PRC LMP_GHG_PRIC	LMP - Congestion Component; LMP for each node tie combination; LMP - Energy Component; LMP - Losses Component LMP – GHG Component
Contingency Dispatch Intertie Constraint Shadow Prices Similar to the Interval Intertie Constraint Shadow Prices report, but for Real Time Contingency Dispatch (RTCD) runs. Posts the 10-Minute constraint pricing at Transmission Interfaces and Intertie Constraints in $/MWh, for the RTCD run in the RTM. Report will also include an indication of whether the Constraints were binding because of the base operating conditions or contingencies, and if caused by a Contingency, the identity of the specific Contingency.	PRC_CD_RTM_FLOWGATE	SHADOW_PRC REASON	Shadow price by Transmission Interface and Intertie Constraint for ten-minute Contingency Dispatch. Will indicate either "Base Case" or specific Contingency ID.

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Report/ResultSet	XML Name	XML Data Items	Description
Contingency Dispatch Nomogram/Branch Shadow Prices Similar to the Interval Nomogram/Branch Shadow Prices report, but for Real Time Contingency Dispatch (RTCD) runs. Posts the 10-Minute constraint pricing at each Nomogram and Branch in $/MWh, for the RTCD run in the RTM. Report will also include an indication of whether the Constraints were binding because of the base operating conditions or contingencies, and if caused by a Contingency, the identity of the specific Contingency.	PRC_CD_RTM_NOMOGRAM	SHADOW_PRC REASON	Shadow price by Nomogram or Branch for ten-minute Contingency Dispatch. Will indicate either "Base Case" or specific Contingency ID.
MPM DA Locational Marginal Prices (LMP): Hourly Locational Marginal Prices from the Day-Ahead MPM run for all PNodes and APNodes in $/MWh. Posts the LMP, plus the Competitive Congestion, Non-Competitive Congestion, Loss and Energy Components that make up the LMP.	PRC_MPM_LMP	LMP_PRC LMP_CONG_CC_PRC LMP_CONG_NC_PRC LMP_ENE_PRC LMP_LOSS_PRC	LMP for each nodes LMP - Competitive Congestion Component LMP- Non-Competitive Congestion Component LMP - Energy Component LMP - Losses Component
MPM RT Locational Marginal Prices (LMP): Posts hourly, the 4 15-minute Locational Marginal Prices from the HASP MPM run for all PNodes and APNodes in $/MWh. OR Posts every 15 minutes, the 15-minute Locational Marginal Prices from the RTPD MPM run for all PNodes and APNodes in $/MWh. OR Posts every 5 minutes, the 5-minute Locational Marginal Prices from the RTD MPM run for all PNodes and APNodes in $/MWh. Posts the LMP, plus the Competitive Congestion, Non-Competitive Congestion, Loss and Energy Components that make up the LMP.	PRC_MPM_RTM_LMP	LMP_PRC LMP_CONG_CC_PRC LMP_CONG_NC_PRC LMP_ENE_PRC LMP_LOSS_PRC LMP_GHG_PRC	LMP for each nodes LMP - Competitive Congestion Component LMP- Non-Competitive Congestion Component LMP - Energy Component LMP - Losses Component LMP - GHG Component
MPM Nomogram/Branch Shadow Prices (DAM):	PRC_MPM_NOMOGRAM	SHADOW_PRC <m:REASON>	Shadow price by Nomogram or Branch. Will indicate either "Base Case" or specific Contingency ID.

Report/ResultSet	XML Name	XML Data Items	Description
Posts the hourly constraint pricing at each binding Nomogram and Branch, for Day Ahead MPM run in $/MWh. Report will also include an indication of whether the Constraints were binding because of the base operating conditions or contingencies, and if caused by a Contingency, the identity of the specific Contingency.			
MPM Nomogram/Branch Shadow Prices (RTM): Posts hourly, 4 15-minute interval constraint pricing at each binding Nomogram and Branch, for HASP MPM run in $/MWh OR Posts every 15 minutes, 15-minute interval constraint pricing at each binding Nomogram and Branch, for RTPD MPM run in $/MWh. OR Posts every 5 minutes, 5-minute interval constraint pricing at each binding Nomogram and Branch, for RTD MPM run in $/MWh. Report will also include an indication of whether the Constraints were binding because of the base operating conditions or contingencies, and if caused by a Contingency, the identity of the specific Contingency.	PRC_MPM_RTM_NOMOGRAM	SHADOW_PRC < m:REASON>	Shadow price by Nomogram or Branch. Will indicate either "Base Case" or specific Contingency ID.
MPM Nomogram/Branch Competitive Paths (DAM): Posts the hourly results of the dynamic competitiveness constraint for the Day-Ahead MPM run, for nomograms and flowgates. Posts a flag indicating whether each binding constraint was competitive or not	PRC_MPM_NOMOGRAM_CMP	MPM_CMP_STATUS_FLG	Competitive Path indicator (Y/N)
MPM Nomogram/Branch Competitive Paths (RTM): Posts the hourly 4 15-minute interval results of the dynamic competitiveness constraint for the HASP MPM run for nomograms and flowgates. Posts a flag indicating whether each binding constraint was competitive or not. OR Posts every 15 minutes, the 15-minute interval results of the dynamic competitiveness constraint for the RTPD MPM run for nomograms and flowgates. Posts a flag indicating whether each binding constraint was competitive or not. OR	PRC_MPM_RTM_NOMOGRAM_CMP	MPM_CMP_STATUS_FLG	Competitive Path indicator (Y/N)

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Report/ResultSet	XML Name	XML Data Items	Description
Posts every 5 minutes, the 5-minute interval results of the dynamic competitiveness constraint for the RTD MPM run for nomograms and flowgates. Posts a flag indicating whether each binding constraint was competitive or not.			
MPM Intertie Constraint Shadow Prices (DAM): Posts the hourly constraint pricing at Transmission Interfaces and Intertie Constraints, for Day Ahead market MPM run in $/MWh. Report will also include an indication of whether the Constraints were binding because of the base operating conditions or contingencies, and if caused by a Contingency, the identity of the specific Contingency.	PRC_MPM_CNSTR	SHADOW_PRC I REASON	Shadow price by Transmission Interface and Intertie Constraint Will indicate either "Base Case" or specific Contingency ID.
MPM Intertie Constraint Shadow Prices (RTM): Posts the hourly, the 4 15-minute interval constraint pricing at Transmission Interfaces and Intertie Constraints, for HASP market MPM run in $/MWh. OR Posts every 15 minutes, the15-minute interval constraint pricing at Transmission Interfaces and Intertie Constraints, for RTPD market MPM run in $/MWh OR Posts every 5 minutes, the 5-minute interval constraint pricing at Transmission Interfaces and Intertie Constraints, for RTD market MPM run in $/MWh Report will also include an indication of whether the Constraints were binding because of the base operating conditions or contingencies, and if caused by a Contingency, the identity of the specific Contingency	PRC_MPM_RTM_FLOWGATE	SHADOW_PRC REASON	Shadow price by Transmission Interface and Intertie Constraint Will indicate either "Base Case" or specific Contingency ID.
MPM Intertie Constraint Competitive Paths (DAM): OR For HASP MPM run, -posted hourly the 4 15 minute interval results. OR For RTPD MPM run, posted every 15 minutes, the 15 minute interval results OR For RTD MPM run, posted every 5 minutes, the 5 minute interval results	PRC_MPM_CNSTR_CMP	MPM_CMP_STATUS_FLG	Competitive Path indicator (Y/N))

Report/ResultSet	XML Name	XML Data Items	Description
Posts the results of the dynamic competitiveness constraint for the market MPM run, for interchanges, market scheduling limits, and branch groups. Posts a flag indicating whether each binding constraint was competitive or not.			
MPM Reference Bus (DAM) : Posts the reference bus used in the MPM run. Posted hourly for the Day-Ahead market. Note, the IFM, RUC, and regular HASP runs use a distributed reference bus.	PRC_MPM_ REF_BUS	REFERENCE_BUS_ID	Reference Bus Name
MPM Reference Bus (RTM) : Posts the reference bus used in the MPM run. Posted hourly, the 4 15-minute interval for the HASP market. OR Posted every 15 minutes, the 15-minute interval data for the RTPD market. OR Posted every 5 minutes, the 5-minute interval data for the RTD market. Note, the IFM, RUC, and regular HASP runs use a distributed reference bus.	PRC_MPM_RTM_R EF_BUS	REFERENCE_BUS_ID	Reference Bus Name
Greenhouse Gas Allowance Price For each real-time trade date, posts the index price for the California Carbon Allowance and for day-ahead bids, use the index price from the previous day's index price	PRC_GHG_ALLOW ANCE	OPR_DATE GHG_ALLOWANCE_PRC	The operating date. Greenhouse gas allowance price index value
EIM GHG Shadow Prices GHG shadow price of the net imbalance energy export	PRC_EIM_GHG	INTERVAL_START_GMT INTERVAL_END_GMT MKT_TYPE PRC_SHADOW	Interval Start time (GMT) Interval End time (GMT) RTPD and RTD EIM GHG Shadow price
TRANSMISSION			
Current Transmission Usage Consolidated report for Current transmission capacity and usage per Transmission Interface. Starts with 7-days ahead and is updated continuously as outages occur. AS, Energy and ETC/TOR utilization values are updated in conjunction with the publication of the DAM and RTM market results.	TRNS_CURR_USA GE	ATC_MW AS_IMPORT_MW ENE_IMPORT_MW CBM_MW OTC_MW TTC_MW	Current Hourly/15-min ATC; Current Hourly/15-min Tagged AS from Imports; Current Hourly/15-min Tagged Net Energy from Imports / Exports; Current Hourly/15-min CBM; Current Hourly/15-min OTC; This refers to the "Hourly TTC" value Current Hourly/15-min TTC; This refers to the "Seasonal TTC" value

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Report/ResultSet	XML Name	XML Data Items	Description
		CONSTRAINT_MW USEAGE_MW	Current Hourly Constraint; Current Hourly Unused TR Capacity
		TRM_MW	Total TRM
		TRM_UF_MW	Unscheduled Flow
		TRM_FTO_MW	Forced Topology outages
		TRM_SPI_MW	Simultaneous Path Interaction
		MKT_XFER_CAP_MW	Market Transfer Capability
Market Available Transmission Capacity Available Transmission Capacity per Transmission Interface for DAM, HASP, RTPD. ATC = OTC (TTC-CBM-Constraint)-AS From Imports-Net Energy flow from Imports/Exports-Unscheduled Transmission Rights capacity.	TRNS_ATC	ATC_MW	DAM Hourly or HASP 15-minute or RTPD 15-minute ATC
Transmission Outages List planned and actual Transmission Outage events per Transmission Interface and direction. Updated with every outage event.	TRNS_OUTAGE	OUTAGE_LIMIT_MW	Curtailed Line Rating for each Transmission Interface MW.
Transmission Interface Usage Consolidated report for transmission capacity, usage, ETC/TOR utilization and schedules resulting from CAISO market operations for DAM, HASP or RTPD by Transmission Interface.	TRNS_USAGE	ATC_MW	DAM Hourly or HASP 15-minute or RTPD 15-minute ATC;
		AS_IMPORT_MW	DAM Hourly or HASP 15-minute or RTPD 15-minute DAM Hourly or HASP Hourly or RTPD 15-minute Tagged AS from Imports;
		ENE_IMPORT_MW	DAM Hourly or HASP 15-minute or RTPD 15-minute Tagged Net Energy from Imports / Exports;
		CBM_MW	DAM Hourly or HASP 15-minute or RTPD 15-minute CBM;
		OTC_MW	DAM Hourly or HASP 15-minute or RTPD 15-minute OTC; For Fall Release 2012, data item name will not be changed, yet going forward will refer to the "Hourly TTC" value
		TTC_MW	DAM Hourly or HASP Hourly or RTPD 15-minute TTC; For Fall Release 2012, data item name will not be changed, yet going forward will refer to the "Seasonal TTC" value

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Report/ResultSet	XML Name	XML Data Items	Description
		CONSTRAINT_MW	DAM Hourly or HASP 15-minute or RTPD 15-minute Constraint;
		USEAGE_MW	DAM Hourly or HASP 15-minute or RTPD 15-minute Unused TR Capacity
		TRM_MW	Total TRM
		TRM_UF_MW	Unscheduled Flow
		TRM_FTO_MW	Forced Topology outages
		TRM_SPI_MW	Simultaneous Path Interaction
SYSTEM DEMAND			
CAISO Peak Demand Forecast Peak Demand Forecast per CAISO control area total. Posting begins at 7 days before Trading Day. Also posts Peak Demand Forecast by TAC Area.	SLD_FCST_PEAK	SYS_PEAK_MW	The forecast peak demand in MW for the Forecast Day.
CAISO Demand Forecast Daily posting for the 2-DA,7-DA hourly forecast, DAM hourly forecast by TAC area.	SLD_FCST	SYS_FCST_DA_MW	The forecast MW demand for each hour of the Operating Day, posted in the morning the day before the Operating Day, before the markets run;
		SYS_FCST_2DA_MW	The forecast MW demand for each hour of the Operating Day, posted two days before the Operating day;
		SYS_FCST_7DA_MW	The forecast MW demand for each hour of the Operating Day, posted seven days before the Operating day;
Hourly posting for the hourly Actual Demand by TAC area.		SYS_FCST_ACT_MW	The actual demand measurement by Hourly basis
15-minute posting for the RTPD markets by TAC area.		SYS_FCST_15MIN_MW	The forecast MW demand for 15 minute intervals
RTM 5-Minute Load Forecast is posted every five minutes, for the next 11 intervals. The postings occur every 5-minutes for a rolling 11 interval period.		SYS_FCST_5MIN_MW	The VSTLF forecast MW demand used for the Operating Interval, for use in RTID

Report/ResultSet	XML Name	XML Data Items	Description
Advisory CAISO Demand Forecast RTPD 15-minute advisory Load Forecast is posted every 15 minutes. RTM 5-Minute advisory Load Forecast is posted every five minutes.	SLD_ADV_FCST	SYS_ADV_FCST_MW	The advisory forecast MW demand for 15 or 5 minute intervals
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. RTPD forecast is posted in advance of each RTPD market run by 15-minute intervals. RTD forecast is posted in advance of each RTD run by 5-minute intervals. 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	SLD_REN_FCST	RENEW_FCST_DA_MW RENEW_FCST_HASP_MW RENEW_FCST_ACT_MW RENEW_FCST_5MIN_MW RENEW_FCST_15MIN_MW TRADING_HUB RENEWABLE_TYPE	The forecast MW value for each hour of the Operating Day, posted in the morning the day before the each markets run The trading hub name. Valid values are NP15,SP15,ZP26 and ALL Renewable Type include one of the following - "Wind" (Include: Wind PIRP & EIR resources). - "Solar" (Include: Solar PIRP & EIR resources).
ENERGY			
System Load and Resource Schedules Balanced System Load, Generation, Import and Export per TAC Area, and for CAISO total. Posts results for DAM, RUC Capacity, HASP and 5-Minute RTM, as indicated below: **DAM** Load, Generation, Import and Export Schedules per TAC Area and CAISO total for each Operating Hour, in MW. **RUC** Capacity from Generation and Imports for each TAC Area and CAISO total for each Operating Hour, in MW Hour-Ahead Scheduling Process **(HASP)** Import and Export per TAC Area and CAISO total, in MW. 5 minute **RTM** Generation, Import and Export per TAC Area and CAISO total, in MW.	ENE_SLRS	ISO_TOT_GEN_MW ISO_TOT_LOAD_MW ISO_TOT_IMP_MW ISO_TOT_EXP_MW TOT_GEN_MW TOT_LOAD_MW TOT_IMP_MW	ISO Total MW cleared as Generation in DAM, RUC, HASP, RTM. ISO Total MW cleared as Demand in DAM, HASP, RTM. ISO Total MW cleared as imports in DAM, RUC, HASP, RTM. ISO Total MW cleared as Exports in DAM, HASP, RTM. Total MW cleared as Generation in DAM, RUC, HASP, RTM, by TAC Area. ISO Total MW cleared as Demand in DAM, HASP, RTM, by TAC Area.

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Report/ResultSet	XML Name	XML Data Items	Description
		TOT_GEN_MW	ISO Total MW cleared as imports in DAM, RUC, HASP, RTM, by TAC Area. ISO Total MW cleared as Exports in DAM, HASP, RTM, by TAC Area.
Expected Energy After-the-Fact Energy Accounting, per Energy Type. Posted daily at T+1, in MWh for ISO total. Please refer to the table in the BPM for Market Operations, Appendix C.4 for the complete list of valid Expected Energy Types.	ENE_EA	DASE_MWH DSSE_MWH DABE_MWH OE_MWH HASE_MWH SRE_MWH RED_MWH EDE_MWH RMRE_MWH MSSLFE_MWH RE_MWH MLE_MWH SE_MWH RTSSE_MWH DMLE_MWH PE_MWH TEE_MWH BASE_MWH MDE_MWH	DA Scheduled Energy DA Self-Scheduled Energy DA Bid Award Energy Optimal Energy Hour Ahead Scheduled Energy Standard Ramping Energy Ramping Energy Deviation Exceptional Dispatch Energy RMR Energy MSS Load Following Energy Residual Energy Minimum Load Energy SLIC Energy RT Self Scheduled Energy DA Minimum Load Energy Pumping Energy Total Expected Energy Base Schedule Energy EIM Manual Dispatch Energy
Market Power Mitigation Status Mitigation Indicator showing whether any bids were replaced by Reference Curves. Value will be "Y" or "N".	ENE_MPM	MPM_STATUS_FLG BAA_ID	Indicator whether mitigation occurred in that Operating Interval One of more EIM BAA ID
RMR Pre-Dispatched and MPM Determined RMR capacity (MW) summed for all resources, for the DAM and RTM market processes.	CMMT_RMR	DISPATCH_MW TOT_AVAIL_MW DETER_MW	The RMR capacity dispatched ahead of the Market. Total RMR capacity available to the market in that hour. RMR capacity determined by MPM before market run.
Exceptional Dispatch Summary of Exceptional Dispatch Data. Posted daily at T+1, in MWh by TAC area and Instruction Type. Please refer to the table in the BPM for Market Operations, Appendix C.4 for the complete list of valid Exceptional Dispatch Instruction Types.	ENE_DISP	EXPT_DIS_PRC EXPT_DIS_MWH	Exceptional Dispatch Price. Exceptional Dispatch MW
Marginal Losses CAISO Total Marginal Loss costs ($) and Total System losses (MWh). Posted hourly for the DAM and HASP.	ENE_LOSS	TOT_LOSS_PRC TOT_LOSS_MW	Total costs incurred due to Losses in this hour/interval. Total MWh lost
Resource Adequacy and Minimum Load Commitment data for each market. All data for all markets posted daily at T+1. All commitment data is related to ISO committed resources.	CMMT_RA_MLC	RA_CAP_COMM_MW MIN_LD_MW RA_MLC_PRC	RA Capacity Committed Minimum Load

Report/ResultSet	XML Name	XML Data Items	Description
		MIN_LD_MLC_PRC	RA Minimum Load Cost (MLC)
		TOT_STRT_CST_PRC	Minimum Load cost
		RA_STRT_PRC	Total Start Up Cost
		RA_COMM_UNITS_CNT	RA Start-Up Cost
		TOT_COMM_UNITS_CNT	RA Number of Units Committed
		TOT_COMM_CAP_MW	Total Number of Units Committed
			Total Capacity Committed
Convergence Bidding Aggregate Awards Posts Day Ahead CAISO aggregate Virtual Bidding Awards for Energy for Supply & Demand Publishes with the Day Ahead Market results	ENE_CB_AWARDS	ISO_TOT_SPLY_MW	Supply Component
		ISO_TOT_DMD_MW	Demand Component
Net Cleared Convergence Bidding Awards Posts Net Cleared MW for Virtual Bids for every Virtual Bidding Node per Trade Hour within a Trading Day including Trading Hubs and default LAPs. This report will post after all Real Time markets have closed for the associated Trading Day. Posts Convergence Bidding Supply Awards, Less Convergence Bidding Demand Awards per node. Under this convention, positive net cleared virtual quantities will indicate net Virtual Supply, whereas negative net cleared virtual quantities will indicate net Virtual Demand at a given node. A value of null Net Cleared Virtual quantities at a given node will indicate no virtual bids submitted at that node while a value of zero will indicate virtual supply and demand Awards netted to zero. .	ENE_CB_CLR_AWARDS	ENE_CB_CLR_MW	Cleared MW
Day Ahead Market Summary Summary of the Day Ahead market showing physical and virtual breakdowns of energy submitted, dollars submitted, energy cleared and dollars cleared as well as the totals. Posts after the completion of the DAM Market publication.	ENE_CB_MKT_SUM	DMD_SLF_ENE_SUB_MW	Sum of demand self schedule energy bids submitted for all internal resources for a specific trade date in the day ahead market
		DMD_SLF_ENE_CLR_MW	

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Report/ResultSet	XML Name	XML Data Items	Description
		DMD_SLF_CLR_CST	Sum of demand self schedule energy bids awarded (cleared) for all internal resources for a specific trade date in the day ahead market
		DMD_ENE_SUB_MW	Sum of dollars associated with demand self schedule energy bids awarded (cleared) for all internal resources for a specific trade date in the day ahead market
		DMD_ENE_SUB_CST	Sum of demand economic energy bids submitted for all internal resources for a specific trade date in the day ahead market. All the MW values in each price curve will be included in this calculation
		DMD_ENE_CLR_MW	Sum of dollars associated with demand economic energy submitted for all internal resources for a specific trade date in the day ahead market. All the MW/price pair values in each price curve will be included in this calculation
		DMD_ENE_CLR_CST	Sum of demand economic energy bids awarded (cleared) for all internal resources for a specific trade date in the day ahead market
		DMD_VIR_ENE_SUB_MW	Sum of dollars associated with demand economic energy bids awarded (cleared) for all internal resources for a specific trade date in the day ahead market
		DMD_VIR_SUB_CST	Sum of demand convergence bidding (virtual) energy bids submitted for all internal resources for a specific trade date in the day ahead market. All the MW values in each price curve will be included in this calculation
		DMD_VIR_ENE_CLR_MW	Sum of dollars associated with demand convergence bidding (virtual) energy submitted for all internal resources for a specific trade date in the day ahead market. All the MW/price pair values in each price curve will be included in this calculation

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Report/ResultSet	XML Name	XML Data Items	Description
		DMD_VIR_CLR_CST	Sum of demand convergence bidding (virtual) energy bids awarded (cleared) for all internal resources for a specific trade date in the day ahead market
		DMD_TOT_ENE_SUB_MW	Sum of dollars associated with demand convergence bidding (virtual) energy bids awarded (cleared) for all internal resources for a specific trade date in the day ahead market
		DMD_TOT_SUB_CST	Sum of demand self schedule energy bids submitted, demand economic energy bids submitted, demand virtual bids submitted for all internal resources (and nodes) for a specific trade date in the day ahead market
		DMD_TOT_ENE_CLR_MW	Sum of dollars associated with demand self schedule energy bids submitted, demand economic energy bids submitted, demand virtual bids submitted for all internal resources (and nodes) for a specific trade date in the day ahead market
		DMD_TOT_CLR_CST	Sum of demand self schedule energy bids awarded (cleared), demand economic energy bids awarded (cleared), demand virtual bids awarded (cleared) for all internal resources (and nodes) for a specific trade date in the day ahead market
		SPLY_ENE_SUB_MW	Sum of dollars associated with demand self schedule energy bids awarded (cleared), demand economic energy bids awarded (cleared), demand virtual bids awarded (cleared) for all internal resources (and nodes) for a specific trade date in the day ahead market
		SPLY_ENE_SUB_CST	Sum of supply physical energy bids submitted for all internal resources for a specific trade date in the day ahead market. All the MW values in each price curve will be included in this calculation.

Report/ResultSet	XML Name	XML Data Items	Description
		SPLY_ENE_CLR_MW	Sum of dollars associated with supply physical energy submitted for all internal resources for a specific trade date in the day ahead market. All the MW/price pair values in each price curve will be included in this calculation.
		SPLY_ENE_CLR_CST	Sum of supply physical energy bids awarded (cleared) for all internal resources for a specific trade date in the day ahead market
		SPLY_SLF_ENE_SUB_MW	Sum of dollars associated with supply physical energy bids awarded (cleared) for all internal resources for a specific trade date in the day ahead market
		SPLY_SLF_ENE_CLR_MW	Sum of supply self schedule energy bids submitted for all internal resources for a specific trade date in the day ahead market
		SPLY_SLF_CLR_CST	Sum of supply self schedule energy bids awarded (cleared) for all internal resources for a specific trade date in the day ahead market
		SPLY_VIR_ENE_SUB_MW	Sum of dollars associated with supply self schedule energy bids awarded (cleared) for all internal resources for a specific trade date in the day ahead market
		SPLY_VIR_SUB_CST	Sum of supply convergence bidding (virtual) energy bids submitted for all internal resources for a specific trade date in the day ahead market. All the MW values in each price curve will be included in this calculation.
		SPLY_VIR_ENE_CLR_MW	
		SPLY_VIR_CLR_CST	

Report/ResultSet	XML Name	XML Data Items	Description
		SPLY_TOT_ENE_SUB_MW	Sum of dollars associated with supply convergence bidding (virtual) energy submitted for all internal resources for a specific trade date in the day ahead market. All the MW/price pair values in each price curve will be included in this calculation.
		SPLY_TOT_SUB_CST	Sum of supply convergence bidding (virtual) energy bids awarded (cleared) for all internal resources for a specific trade date in the day ahead market
		SPLY_TOT_ENE_CLR_MW	Sum of dollars associated with supply convergence bidding (virtual) energy bids awarded (cleared) for all internal resources for a specific trade date in the day ahead market
		SPLY_TOT_CLR_CST	Sum of supply economic energy bids submitted, supply virtual bids submitted for all internal resources (and nodes) for a specific trade date in the day ahead market.
		EXP_SLF_ENE_SUB_MW	Sum of dollars associated with supply economic energy bids submitted, supply virtual bids submitted for all internal resources (and nodes) for a specific trade date in the day ahead market
			Sum of supply economic energy bids awarded (cleared), supply virtual bids awarded (cleared) for all internal resources (and nodes) for a specific trade date in the day ahead market
		EXP_SLF_ENE_CLR_MW	Sum of dollars associated with supply economic energy bids awarded (cleared), supply virtual bids awarded (cleared) for all internal resources (and nodes) for a specific trade date in the day ahead market
		EXP_SLF_CLR_CST	Sum of Exports self schedule energy bids submitted for a specific trade date in the day ahead market
		EXP_ENE_SUB_MW	N/A

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Report/ResultSet	XML Name	XML Data Items	Description
		EXP_ENE_SUB_CST	Sum of Exports self schedule energy bids awarded (cleared) for a specific trade date in the day ahead market
		EXP_ENE_CLR_MW	Sum of dollars associated with Exports self schedule energy bids awarded (cleared) for a specific trade date in the day ahead market
		EXP_ENE_CLR_CST	Sum of Exports economic energy bids submitted for a specific trade date in the day ahead market. All the MW values in each price curve will be included in this calculation
		EXP_VIR_ENE_SUB_MW	Sum of dollars associated with Exports economic energy submitted for a specific trade date in the day ahead market. All the MW/price pair values in each price curve will be included in this calculation
		EXP_VIR_SUB_CST	Sum of Exports economic energy bids awarded (cleared) for a specific trade date in the day ahead market
		EXP_VIR_ENE_CLR_MW	Sum of dollars associated with Exports economic energy bids awarded (cleared) for a specific trade date in the day ahead market
		EXP_VIR_CLR_CST	Sum of Exports convergence bidding (virtual) energy bids submitted for a specific trade date in the day ahead market. All the MW values in each price curve will be included in this calculation
		EXP_TOT_ENE_SUB_MW	Sum of dollars associated with Exports convergence bidding (virtual) energy submitted for a specific trade date in the day ahead market. All the MW/price pair values in each price curve will be included in this calculation
		EXP_TOT_SUB_CST	Sum of Exports convergence bidding (virtual) energy bids awarded (cleared) for a specific trade date in the day ahead market
		EXP_TOT_ENE_CLR_MW	Sum of dollars associated with Exports convergence bidding (virtual) energy bids awarded (cleared) for a specific trade date in the day ahead market

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Report/ResultSet	XML Name	XML Data Items	Description
		EXP_TOT_CLR_CST	Sum of Exports self schedule energy bids submitted, Exports economic energy bids submitted, Exports virtual bids submitted (and nodes) for a specific trade date in the day ahead market
		IMP_SLF_ENE_SUB_MW	Sum of dollars associated with Exports self schedule energy bids submitted, Exports economic energy bids submitted, Exports virtual bids submitted (and nodes) for a specific trade date in the day ahead market
		IMP_SLF_ENE_CLR_MW	Sum of Exports self schedule energy bids awarded (cleared), Exports economic energy bids awarded (cleared), Exports virtual bids awarded (cleared) (and nodes) for a specific trade date in the day ahead market
		IMP_SLF_CLR_CST	Sum of dollars associated with Exports self schedule energy bids awarded (cleared), Exports economic energy bids awarded (cleared), Exports virtual bids awarded (cleared) (and nodes) for a specific trade date in the day ahead market
		IMP_ENE_SUB_MW	
		IMP_ENE_SUB_CST	Sum of Imports self schedule energy bids submitted for a specific trade date in the day ahead market
		IMP_ENE_CLR_MW	Sum of Imports self schedule energy bids awarded (cleared) for a specific trade date in the day ahead market
		IMP_ENE_CLR_CST	Sum of dollars associated Sum of Imports self schedule energy bids submitted for a specific trade date in the day ahead market. All the MW values in each price curve
		IMP_VIR_ENE_SUB_MW	

Report/ResultSet	XML Name	XML Data Items	Description
		IMP_VIR_SUB_CST	Sum of Imports physical energy bids submitted for a specific trade date in the day ahead market. All the MW values in each price curve will be included in this calculation.
		IMP_VIR_ENE_CLR_MW	Sum of dollars associated with Imports physical energy submitted for a specific trade date in the day ahead market. All the MW/price pair values in each price curve will be included in this calculation.
		IMP_VIR_CLR_CST	Sum of Imports physical energy bids awarded (cleared) for a specific trade date in the day ahead market
		IMP_TOT_ENE_SUB_MW	Sum of dollars associated with Imports physical energy bids awarded (cleared) for a specific trade date in the day ahead market
		IMP_TOT_SUB_CST	Sum of Imports convergence bidding (virtual) energy bids submitted for a specific trade date in the day ahead market. All the MW values in each price curve will be included in this calculation.
		IMP_TOT_ENE_CLR_MW	Sum of dollars associated with Imports convergence bidding (virtual) energy submitted for a specific trade date in the day ahead market. All the MW/price pair values in each price curve will be included in this calculation.
		IMP_TOT_CLR_CST	Sum of Imports convergence bidding (virtual) energy bids awarded (cleared) for a specific trade date in the day ahead market
			Sum of dollars associated with Imports convergence bidding (virtual) energy bids awarded (cleared) for a specific trade date in the day ahead market
			Sum of Imports economic energy bids submitted, Imports virtual bids submitted (and nodes) for a specific trade date in the day ahead market

Report/ResultSet	XML Name	XML Data Items	Description
			Sum of dollars associated with Imports economic energy bids submitted, Imports virtual bids submitted (and nodes) for a specific trade date in the day ahead market
			Sum of Imports economic energy bids awarded (cleared), Imports virtual bids awarded (cleared) (and nodes) for a specific trade date in the day ahead market
			Sum of dollars associated with Imports economic energy bids awarded (cleared), Imports virtual bids awarded (cleared) (and nodes) for a specific trade date in the day ahead market
Convergence Bidding Nodal MW Limits This report displays the MW limits used by the ISO in formulating nodal MW constraints in conjunction with convergence bidding. An upper and lower limit is defined for each Eligible Pnode other than an Eligible Pnode established for an Intertie. This report is triggered with the publication of the Day-Ahead results.	CB_NODAL_LIMITS	CB_NODAL_LIMITS PHYSICAL_TYPE	Upper or lower limit (MW) 'Supply' or 'Demand'
Contingency Dispatch Resource Schedules Similar to the System Load and Resource Schedules report, but for Real Time Contingency Dispatch (RTCD) runs. RTM Generation, Import and Export per TAC Area and CAISO total, in MW for all 10-minute RTCD runs.	ENE_CD_SLRS	ISO_TOT_GEN_MW	ISO Total MW cleared as Generation for all 10-Minute Contingency Dispatch run.
		ISO_TOT_IMP_MW	ISO Total MW cleared as imports for all 10-Minute Contingency Dispatch run.
		ISO_TOT_EXP_MW	ISO Total MW cleared Exports for all 10-Minute Contingency Dispatch run.
		TOT_GEN_MW	Total MW cleared as Generation per TAC area for all 10-Minute Contingency Dispatch run.
		TOT_IMP_MW	Total MW cleared as imports per TAC area for all 10-Minute Contingency Dispatch run.
		TOT_EXP_MW	Total MW cleared as Exports per TAC area for all 10-Minute Contingency Dispatch run.
Aggregated Generation Outages	AGGR_OUTAGE_SCH	REPORT_DATE	The date when the data was published

Report/ResultSet	XML Name	XML Data Items	Description
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).		OUTAGE_DATE	Outage date
		OUTAGE_HOUR	Outage hour
		FUEL_CATEGORY	Fuel Category
		TRADING_HUB	Trading Hub name
		OUTAGE_MW	Outage MW
EIM Transfer Limits After each RTPD and RTD market run is completed, OASIS will post the NSI low/high limits per each EIM BAA group that are used in the market	ENE_EIM_TRANSFER_LIMITS	MKT_TYPE	RTPD and RTD
		INTERVAL_START_GMT	Interval Start time (GMT)
		INTERVAL_END_GMT	Interval End time (GMT)
		BAA_GRP_ID	EIM BAA Group ID
		LIMIT_TYPE	HIGH or LOW
		EIM_XFER_MW	EIM Transfer MW
EIM Transfer EIM BAA Net Imbalance energy export (transfer) will be posted to OASIS for every RTD and RTPD market	ENE_EIM_TRANSFER	INTERVAL_START_GMT INTERVAL_END_GMT MKT_TYPE BAA_GRP_ID EIM_XFER_MW	Interval Start time (GMT) Interval End time (GMT) RTPD and RTD EIM BAA Group (PACW, PACE, ISO, PACW_PACE, etc.) EIM Transfer MW
EIM BAA Dynamic NSI Dynamic Net Schedule Interchange for each BAA will be posted to OASIS for every RTD and RTPD market	ENE_EIM_DYN_NSI	INTERVAL_START_GMT INTERVAL_END_GMT BAA_ID MKT_TYPE EIM_DYN_NSI_MW	Interval Start time (GMT) Interval End time (GMT) One of more EIM BAA ID RTPD and RTD EIM BAA Dynamic NSI MW
EIM BAA Base NSI DAM and RTM ~~hourly~~ base NSI for each EIM BAA. All data shall be from the latest DAM and the first RTPD 15-minute market within the hour.	ENE_BASE_NSI	INTERVAL_START_GMT INTERVAL_END_GMT SNAPSHOT_INDICATOR BAA_ID MKT_TYPE BASE_NSI_MW	Interval Start time (GMT) Interval End time (GMT) Base schedule snapshot indicator (T75MIN, T55MIN, T40MIN, DA) One of more EIM BAA ID DAM and RTPD EIM Base NSI MW
EIM BAA Hourly Base NSI DAM and RTM hourly base NSI for each EIM BAA.	ENE_HRLY_BASE_NSI	INTERVAL_START_GMT INTERVAL_END_GMT SNAPSHOT_INDICATOR BAA_ID MKT_TYPE HRLY_BASE_NSI_MW	Interval Start time (GMT) Interval End time (GMT) Base schedule snapshot indicator (T75MIN, T55MIN, T40MIN, DA) One of more EIM BAA ID DAM and RTM EIM Hourly Base NSI MW

Report/ResultSet	XML Name	XML Data Items	Description
Uncertainty Movement by Category	ENE_UNCERTAINTY_MV	BAA_GRP_ID	BAA Group ID
		MKT_TYPE	Market type. Only applicable for RTD market
		INTERVAL_START_GMT	Interval Start time (GMT)
		INTERVAL_END_GMT	Interval End time (GMT)
		CATEGORY	Supply or Intertie or Load
		PRODUCT	UM – Uncertainty Movement
		UNCERTAINTY_MV_MW	MW value
Flexible Ramp Requirements	ENE_FLEX_RAMP_REQT	BAA_GRP_ID	BAA ID
		MKT_TYPE	Market type. Before Fall 2016 release, only RTPD market applies. Beginning Fall 2016 release market type will be RTM~PD, RTD.
		INTERVAL_START_GMT	Interval Start time (GMT)
		INTERVAL_END_GMT	Interval End time (GMT)
		RAMP_TYPE	Ramp Type (UP or DOWN)
		FLEX_RAMP_REQ_MW	MW value
		NET_DEMAND_MW	MW value
		UNCERTAINTY_MW	MW value
Flex Ramp Aggr Awards	ENE_AGGR_FLEX_RAMP	BAA_GRP_ID	BAA Group ID
		MKT_TYPE	Market type. Applicable for both RTPD and RTD markets.
		NTERVAL_START_GMT	Interval Start time (GMT)
		INTERVAL_END_GMT	Interval End time (GMT)
		AGGR_FLEX_RAMP_MW	MW value
Flex Ramp Surplus Demand Curves	ENE_FLEX_RAMP_DC	BAA_GRP_ID	BAA Group ID
		RAMP_TYPE	Ramp Type (UP or DOWN)
		NTERVAL_START_GMT	Interval Start time (GMT)
		INTERVAL_END_GMT	Interval End time (GMT)
		SEGMENT_MW	MW value
		SEGMENT_PRC	Price
ANCILLARY			
AS Requirements	AS_REQ	NS_REQ_MAX_MW	Max capacity to be acquired for NonSpin
		RD_REQ_MAX_MW	

Report/ResultSet	XML Name	XML Data Items	Description
Ancillary Service Capacity Minimum and Maximums per AS Region. Report will post for the 2-Day-Ahead forecast, DAM , HASP and RTM (RTPD) Note: When encountering a max A/S limit of zero, please interpret this as "no limit".		RU_REQ_MAX_MW	Max capacity to be acquired for RegulationDown
		SP_REQ_MAX_MW	Max capacity to be acquired for RegulationUp
		NS_REQ_MIN_MW	Max capacity to be acquired for Spin
		RD_REQ_MIN_MW	Min capacity to be acquired for NonSpin
		RU_REQ_MIN_MW	Min capacity to be acquired for RegulationDown
		SP_REQ_MIN_MW	Min capacity to be acquired for RegulationUp
			Min capacity to be acquired for Spin
		AS_REQ_MAX_MW	Max capacity UP to be acquired for RegulationUp,Spin,Non Spin For 2DA Market.
		RMD_REQ_MAX_MW	Max capacity to be acquired for Regulation Mileage Down
		RMD_REQ_MIN_MW	Min capacity to be acquired for Regulation Mileage Down
		RMU_REQ_MAX_MW	Max capacity to be acquired for Regulation Mileage Up
		RMU_REQ_MIN_MW	Min capacity to be acquired for Regulation Mileage Down
AS Results Ancillary Service Capacity procured and self-scheduled, by AS type, posted for each AS Region. Also posts the sum of the procured and self-scheduled. Posts Hourly for the Day-Ahead (DAM), HASP. And in 15 Minute (RTPD) intervals, by AS type. Also posts Total AS Cost for each AS Region, by AS Type. Results will only post for AS Regions that are binding for that market run.	AS_RESULTS	RU_TOT_CST_PRC	The Total line cost across AS Region for Regulation Up.
		RD_TOT_CST_PRC	The Total line cost across AS Region for Regulation Down.
		SP_TOT_CST_PRC	The Total line cost across AS Region for Spin.
		NS_TOT_CST_PRC	The Total line cost across AS Region for NonSpin.
		NS_PROC_MW	The MW of capacity procured from the AS market bids for NonSpin.
		NS_SPROC_MW	The MW of capacity self-provided by market participants.
		NS_TOT_MW	Total MW of capacity obtained.
		SP_PROC_MW	The MW of capacity procured from the AS market bids for Spin.
		SP_SPROC_MW	The MW of capacity self-provided by market participants
		SP_TOT_MW	Total MW of capacity obtained

Report/ResultSet	XML Name	XML Data Items	Description
		RU_PROC_MW	The MW of capacity procured from the AS market bids for RegulationUp.
		RU_SPROC_MW	The MW of capacity self-provided by market participants.
		RU_TOT_MW	Total MW of capacity obtained.
		RD_PROC_MW	The MW of capacity procured from the AS market bids for RegulationDown.
		RD_SPROC_MW	The MW of capacity self-provided by market participants.
		RD_TOT_MW	Total MW of capacity obtained
		RMD_PROC_MW	
		RMD_SPROC_MW	The MW of capacity procured from the AS market bids for Regulation Mileage Down
		RMD_TOT_CST_PRC	The MW of capacity self-provided by market participants for Regulation Mileage Down
		RMD_TOT_MW	The Total line cost across AS Region for Regulation Mileage Down
		RMU_PROC_MW	Total MW of capacity obtained for Regulation Mileage Up
		RMU_SPROC_MW	The MW of capacity procured from the AS market bids for Regulation Mileage Up
		RMU_TOT_CST_PRC	The MW of capacity self-provided by market participants for Regulation Mileage Up
		RMU_TOT_MW	The Total line cost across AS Region for Regulation Mileage Up
			Total MW of capacity obtained for Regulation Mileage Up

Report/ResultSet	XML Name	XML Data Items	Description
Actual Operating Reserves Total Actual Load, AS, and Operating Reserves maintained during delivery.	AS_OP_RSRV	OP_RSRV_ACT_PCT	Total Actual Operating Reserves maintained during delivery.
Mileage Calculation Components Lists system performance accuracy, average Instructed Mileage (MW), and system Mileage multiplier data from the prior seven days for each hour of a trading day.	AS_MILEAGE_CALC	RMD_AVG_MIL	Average Instructed Mileage for regulation mileage down
		RMD_SYS_MIL_MUL	System Mileage Multiplier for regulation mileage down
		RMD_SYS_PERF_ACC	System Performance Accuracy for regulation mileage up
		RMU_AVG_MIL	Average Instructed Mileage for regulation mileage up
		RMU_SYS_MIL_MUL	System Mileage Multiplier for regulation mileage up
		RMU_SYS_PERF_ACC	System Performance Accuracy for regulation mileage up.
CRR			
CRR Clearing Prices Congestion Revenue Rights Auction Clearing Prices by Pnode for CRR segments.	CRR_CLEARING	ON_PRC LT_OFF_PRC Note : These the XML tags for corresponding data items CRR_MARKET_NAME RESOURCE_NAME START_DATE_TIME END_DATE_TIME REASON	On-peak Price Off-peak Price CRR MARKET NAME APNODE ID START DATE End DATE MARKET TERM
CRR Inventory Congestion Revenue Rights Daily Inventory.	CRR_INVENTORY	ON_MW OFF_MW Note : These are the XML tags for corresponding data items CRR_MARKET_NAME SOURCE SINK RESOURCE_NAME OPTION INVENTORY_DATE_TIME START_DATE_TIME END_DATE_TIME REASON STATUS_TYPE CRR_CATEGORY CRR_NSR CRR_SEGMENT	On-peak capacity Off-peak capacity CRR MARKET NAME Source APNODE Sink APNODE OWNER NAME CRR OPTION INVENTORY DATE START DATE END DATE MARKET TERM CRR Type CRR CATEGORY NSR INDEX SEGMENT ID
PUBLIC BIDS			

Report/ResultSet	XML Name	XML Data Items	Description

Public Bids
 	
Clean Bid payloads used as the input in the markets, with certain fields replaced by pseudo data as indicated. Posted for DAM and RTM. Posted at T+90. The Public Bid Data is downloadable to XML and CSV only, for a single day at a time.
Data is available for downloading at midnight on the 90th day after the trading day.
The Publications and Revisions log will not create records for the Public Bid data when it is becomes available for downloading on T+90.
	PUB_BID	Note: Below structure is common for –GENERATION, LOAD, and INTERTIE.
		
		STARTTIME
		STOPTIME
		
		REGISTEREDGENERATOR
		
		SCHEDULINGCOORDINATOR
		
		PRODUCTBID
		  DESCRIPTION
		  MRID
		
		  MARKETPRODUCT
		    DESCRIPTION
		
		MARKETPRODUCTTYPE
		
		  BIDSELFSCHED
		    TIMEINTERVALSTART
		    TIMEINTERVALEND
		    SELFSCHEDMW
		
		  BIDSCHEDULE
		    TIMEINTERVALSTART
		    TIMEINTERVALEND
		    BIDPRICECURVE
		    MRID
		
		CURVESCHEDDATA
		    XAXISDATA
		    Y1AXISDATA
		    Y2AXISDATA
			
			Start time of bid
			End time of bid
			
			Pseudo ID of Resource
			
			Pseudo ID of SC_ID
			
			Description of product
			
			All the possible types like EN, LFD, LFU, NR, RC,RD,RU,SR,RMD, RMU and GHG -RMU
			
			Selfscheduled bid start and end time with the MW.
			
			Bid Schedule with start and end time
			
			Curve details contains X and Y1 & Y2 axis data.
			
			Xaxis= optional element
			Y1axis = optional element
			Y2 axis = Opportunity Cost; optional element

CB Public Bids
 	
Convergence Bidding Clean Bid payloads used as the input in the markets, with certain fields replaced by pseudo data as indicated. Posted for DAM. Posted at T+90. The Public Bid Data is downloadable to XML and CSV only, for a single day at a time.
Data is available for downloading at midnight on the 90th day after the trading day.
	PUB_CB_BID	STARTTIME
		
		STOPTIME
		
		AggregatedPnode
		IndividualPnode
		VirtualBidType
		SCHEDULINGCOORDINATOR
		
		ENERGYPRODUCTBID
		  BIDSCHEDULE
		    TIMEINTERVALSTART
		    TIMEINTERVALEND
		    BIDPRICECURVE
		
		CURVESCHEDDATA
		    XAXISDATA
		    Y1AXISDATA
			Start time of Virtual bid
			End time of Virtual bid
			
			Pseudo ID of Apnode
			Pseudo ID of Pnode
			Supply/Demand Bid
			Pseudo ID of SC_ID
			
			Bid Schedule with start and end time
			
			Curve details contains X and Y axis data.

Congestion Revenue Rights (CRR) Public Bids	PUB_CRR_BID	STARTTIME STOPTIME	Effective Start Date of the CRR Effective End Date of the CRR

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Report/ResultSet	XML Name	XML Data Items	Description
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.		MARKETTERM	CRR auction type . Valid values are Seasonal or Monthly
		MARKETNAME	CRR auction name
		SOURCEID	Source id
		SINKID	Sink id
		TIMEOFUSE	Time of use of the CRR bid
		MWQUANTITY	The MW Quantity of the bid point
		CRR_PRICE	The Price of the bid point
		CRRBID_ID	CRR Bid identifier
		CRRBIDSEG_ID	The point number in the CRR Bid
		AUCTIONCLOSEDATE	CRR auction Close date.
ATLAS			
Pnode Listing	ATL_PNODE	N/A	All Pricing Node locations in CAISO Markets. For CB, Y/N flag will be added. For CB, Maximum CB MW Limit, with effective start and end dates will be added.
APNode Listing	ATL_APNODE	N/A	All Aggregated Pricing Node locations used in CAISO Markets. For CB , Y/N flag will be added. For CB, Maximum CB MW Limit, with effective start and end dates will be added.
Load Distribution Factors (LDFs)	ATL_LDF	N/A	Typical Load Distribution Factors that map Pnodes to APNodes.
Load Aggregation Point Listing	ATL_LAP	N/A	All Load Aggregation Points in CAISO, by type.
Market Resource Listing	ATL_RESOURCE	N/A	List of CAISO Resources and their associated Pnode/APNode
Trading Hub Listing	ATL_HUB	N/A	All Trading Hub APNodes in CAISO.
Trading Hub – Pnode Mapping	ATL_PNODE_MAP	N/A	Map of all Pnodes to each Trading Hub APNode.
AS Region – Pnode Mapping	ATL_AS_REGION_ MAP	N/A	Map of all Pnodes to each Ancillary Services Region.
RUC Zone – Pnode Mapping	ATL_RUC_ZONE_ MAP	N/A	Map of all Pnodes to each Reliability Unit Commitment Zone.

Report/ResultSet	XML Name	XML Data Items	Description
TAC Area – Pnode Mapping	ATL_TAC_AREA	N/A	Map of all Pnodes to each Transmission Access Charge Area.
Intertie Constraint Mapping	ATL_TIEPOINT	N/A	Map of all Intertie Constraints with respective Transmission Interface and TSIN.
Transmission Interface Listing	ATL_TI	N/A	All Transmission Interfaces in CAISO.
Publications and Revisions	ATL_PUB	N/A	List of all OASIS data publication and revisions. Users can track all data additions and updates to OASIS through these entries.
OASIS Publication Schedule	ATL_PUB_SCHED	N/A	Expected publication schedule by which all OASIS reports are published.
System Operating Messages	ATL_OSM	N/A	System Operating Messages posted by Severity. Severity : Green = Normal, Red = Emergency, Blue = Urgent
Peak-Off-Peak Definition	ATL_PEAK_ON_OFF	N/A	Posts Hourly Peak/Off-Peak indicator based on the WECC definition.
Convergence Bidding Node List	ATL_CBNODE	N/A	List all the nodes and/or ties for convergence bidding

6. Single Report URL Query Strings

This section contains examples of all single report URL Examples for XML downloads.

XML Name	Example URL for XML Download
PRICES	
PRC_LMP	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_LMP&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1&market_run_id=DAM&grp_type=ALL_APNODES OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_LMP&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1&market_run_id=DAM&node=LAPLMG1_7_B2 NOTE: 1. Recommend to use grp_type or node only. Grp_type will give all the APNODES or ALL NODES groups and node can enable users to select individual APNODES or PNODES. 2. The "enddatetime" is ignored if the query is to pull "ALL" or "ALL_APNODES" nodes; ie query will return only 1-days' worth of data for all nodes at a time based on the "startdatetime" supplied 3. The "enddatetime" is referenced only when a node is supplied in the query
PRC_INTVL_LMP	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_INTVL_LMP&startdatetime=20130919T07:00-0000&enddatetime=20130919T08:00-0000&version=1&market_run_id=RTM&grp_type=ALL_APNODES OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_INTVL_LMP&startdatetime=20130919T07:00-0000&enddatetime=20130919T08:00-0000&version=1&market_run_id=RTM&node=LAPLMG1_7_B2

XML Name	Example URL for XML Download
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_INTVL_LMP&startdatetime=20130919T07:00-0000&enddatetime=20130919T08:00-0000&version=2&market_run_id=RTM&grp_type=ALL_APNODES OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_INTVL_LMP&startdatetime=20130919T07:00-0000&enddatetime=20130919T08:00-0000&version=2&market_run_id=RTM&node=LAPLMG1_7_B2 NOTE: 1. Recommend to use grp_type or node only. Grp_type will give all the APNODES or ALL NODES groups and node can enable users to select individual APNODES or PNODES. 2. The "enddatetime" is ignored if the query is to pull "ALL" or "ALL_APNODES" nodes; ie query will return only 1 hours' worth of data for all nodes at a time based on the "startdatetime" supplied 3. The "enddatetime" is referenced only when a node is supplied in the query 4. Market_run_id 'RTM' will continue to provide 5-min RTD interval LMP data 5. Only new version (version=2) introduced as part of Fall 2014 release will include new element LMP_GHG_PRC.
PRC_HASP_LMP	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_HASP_LMP&startdatetime=20130919T07:00-0000&enddatetime=20130919T08:00-0000&version=1&market_run_id=HASP&grp_type=ALL_APNODES OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_HASP_LMP&startdatetime=20130919T07:00-0000&enddatetime=20130919T08:00-0000&version=1&market_run_id=HASP&node=LAPLMG1_7_B2 http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_HASP_LMP&startdatetime=20130919T07:00-0000&enddatetime=20130919T08:00-0000&version=2&market_run_id=HASP&grp_type=ALL_APNODES OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_HASP_LMP&startdatetime=20130919T07:00-0000&enddatetime=20130919T08:00-0000&version=2&market_run_id=HASP&node=LAPLMG1_7_B2 NOTE: 1. Recommend to use grp_type or node only. Grp_type will give all the APNODES or ALL NODES groups and node can enable users to select individual APNODES or PNODES. 2. The "enddatetime" is ignored if the query is to pull "ALL" or "ALL_APNODES" nodes; ie query will return only 1 hours' worth of data for all nodes at a time based on the "startdatetime" supplied 3. The "enddatetime" is referenced only when a node is supplied in the query 4. Only new version (version=2) introduced as part of Fall 2014 release will include new element LMP_GHG_PRC.
PRC_RTPD_LMP	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_RTPD_LMP&startdatetime=20130919T07:00-0000&enddatetime=20130919T08:00-0000&version=1&market_run_id=RTPD&grp_type=ALL_APNODES OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_RTPD_LMP&startdatetime=20130919T07:00-0000&enddatetime=20130919T08:00-0000&version=1&market_run_id=RTPD&node=LAPLMG1_7_B2 http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_RTPD_LMP&startdatetime=20130919T07:00-0000&enddatetime=20130919T08:00-0000&version=2&market_run_id=RTPD&grp_type=ALL_APNODES OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_RTPD_LMP&startdatetime=20130919T07:00-0000&enddatetime=20130919T08:00-0000&version=2&market_run_id=RTPD&node=LAPLMG1_7_B2 NOTE: 1. Recommend to use grp_type or node only. Grp_type will give all the APNODES or ALL NODES groups and node can enable users to select individual APNODES or PNODES.

XML Name	Example URL for XML Download
	2. The "enddatetime" is ignored if the query is to pull "ALL" or "ALL_APNODES" nodes; ie query will return only 1 ~~day's~~ hour's worth of data for all nodes at a time based on the "startdatetime" supplied 3. The "enddatetime" is referenced only when a node is supplied in the query 4. Only new version (version=2) introduced as part of Fall 2014 release will include new element LMP_GHG_PRC.
PRC_AS	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_AS&market_run_id=DAM&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1&anc_type=ALL&anc_region=ALL Note: For HASP replace, 'DAM' with 'HASP'.
PRC_INTVL_AS	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_INTVL_AS&market_run_id=RTM&startdatetime=20130919T07:00-0000&enddatetime=20130919T08:00-0000&version=1&anc_type=ALL&anc_region=ALL
PRC_CNSTR	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_CNSTR&market_run_id=DAM&ti_id=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
PRC_FUEL	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_FUEL&fuel_region_id=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
PRC_CURR_LMP	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_CURR_LMP&node=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130919T07:00-0000&version=1 http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_CURR_LMP&node=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130919T07:00-0000&version=2
PRC_CURR_HUB_LMP	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_CURR_HUB_LMP&startdatetime=20130919T07:00-0000&version=1
PRC_NOMOGRAM	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_NOMOGRAM&market_run_id=DAM&nomogram_id=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130919T07:00-0000&version=1
PRC_RTM_NOMOGRAM	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_RTM_NOMOGRAM&market_run_id=RTM&nomogram_id=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
PRC_RTM_FLOWGATE	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_RTM_FLOWGATE&market_run_id=RTM&node=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
PRC_DS_REF	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_DS_REF&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1&market_run_id=DAM&node_id=ALL OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_DS_REF&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1&market_run_id=DAM&node_id=LAPLMG1_7_B2 http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_DS_REF&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=3&market_run_id=DAM&node_id=DGAP_PGE-APND OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_DS_REF&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=3&market_run_id=DAM&node_id=ALL version=3 will output the TIE_NAME element

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XML Name	Example URL for XML Download
	NOTE: Prices are the same for the entire quarter.
CB_NODAL_GRP_CNSTR_PRC	http://oasis.caiso.com/oasisapi/SingleZip?queryname=CB_NODAL_GRP_CNSTR_PRC&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
PRC_FLEX_RAMP	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_FLEX_RAMP&market_run_id=DAM&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1 OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_FLEX_RAMP&market_run_id=RTPD&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1&grp_type=ALL OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_FLEX_RAMP&market_run_id=RTD&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1&grp_type=ALL Note: This will be based on the historical view. Returns data based on the input time range. **EIM release will add the baa_grp_id parameter to the above URL** http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_FLEX_RAMP&market_run_id=RTD&baa_grp_id=PACE&startdatetime=20141001T07:00-0000&enddatetime=20141002T07:00-0000&version=2&grp_type=ALL **Valid values for baa_grp_id** parameter are ISO, PACE, PACW, ISO_PACW, ISO_PACE, PACE_PACW, ISO_PACW_PACE Valid values for market_run_id are RTD and RTPD
PRC_FLEX_RAMP	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_FLEX_RAMP&market_run_id=RTPD&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1&grp_type=CURR OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_FLEX_RAMP&market_run_id=RTD&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1&grp_type=CURR Note: This will be based on the current view. This gives the most current/latest interval. It ignores the input datetime range. The view outputs the latest/greatest interval. **EIM release will add the baa_grp_id parameter to the above URL** http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_FLEX_RAMP&market_run_id=RTD&baa_grp_id=PACE&startdatetime=20141001T07:00-0000&enddatetime=20141002T07:00-0000&version=2&grp_type=CURR **Valid values for baa_grp_id** parameter are ISO, PACE, PACW, ISO_PACW, ISO_PACE, PACE_PACW, ISO_PACW_PACE Valid values for market_run_id are RTD and RTPD
PRC_CD_INTVL_LMP	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_CD_INTVL_LMP&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1&market_run_id=RTM&grp_type=ALL_APNODES OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_CD_INTVL_LMP&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1&market_run_id=RTM&node=LAPLMG1_7_B2
PRC_CD_SPTIE_LMP	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_CD_SPTIE_LMP&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=3&market_run_id=RTM&grp_type=ALL_APNODES OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_CD_SPTIE_LMP&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=3&market_run_id=RTM&node=LAPLMG1_7_B2 OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_CD_SPTIE_LMP&startdatetime=20160919T07:00-0000&enddatetime=20160920T07:00-0000&version=4&market_run_id=RTM&node=LAPLMG1_7_B2

Field Code Changed

XML Name	Example URL for XML Download
PRC_CD_RTM_FLOWGATE	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_CD_RTM_FLOWGATE&market_run_id=RTM&ti_id=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
PRC_CD_RTM_NOMOGRAM	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_CD_RTM_NOMOGRAM&market_run_id=RTM&nomogram_id=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
TRANSMISSION	
TRNS_CURR_USAGE	http://oasis.caiso.com/oasisapi/SingleZip?queryname=TRNS_CURR_USAGE&ti_id=ALL&ti_direction=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1 http://oasis.caiso.com/oasisapi/SingleZip?queryname=TRNS_CURR_USAGE&ti_id=ALL&ti_direction=ALL&tr_type=TRNS_AS_IMPORT_IFM&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1 List of available "tr_type": TRNS_AS_IMPORT_IFM, TRNS_ENE_IMPORT_IFM, TRNS_RATING_CBM, TRNS_RATING_CONSTRAINT, TRNS_RATING_MTC, TRNS_RATING_OTC, TRNS_RATING_TRM, TRNS_RATING_TRM_FTO, TRNS_RATING_TRM_SPI, TRNS_RATING_TRM_UF, TRNS_RATING_TTC, TRNS_TR_USEAGE, RATING_ATC
TRNS_ATC	http://oasis.caiso.com/oasisapi/SingleZip?queryname=TRNS_ATC&market_run_id=DAM&ti_id=ALL&ti_direction=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1 http://oasis.caiso.com/oasisapi/SingleZip?queryname=TRNS_ATC&market_run_id=RTPD&ti_id=ALL&ti_direction=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
TRNS_OUTAGE	http://oasis.caiso.com/oasisapi/SingleZip?queryname=TRNS_OUTAGE&ti_id=ALL&ti_direction=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
TRNS_USAGE	http://oasis.caiso.com/oasisapi/SingleZip?queryname=TRNS_USAGE&market_run_id=DAM&ti_id=ALL&ti_direction=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1 http://oasis.caiso.com/oasisapi/SingleZip?queryname=TRNS_USAGE&market_run_id=RTPD&ti_id=ALL&ti_direction=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1 http://oasis.caiso.com/oasisapi/SingleZip?queryname=TRNS_USAGE&market_run_id=DAM&ti_id=ALL&ti_direction=ALL&tr_type=TRNS_AS_IMPORT_IFM&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1 List of available "tr_type": TRNS_AS_IMPORT_IFM, TRNS_ENE_IMPORT_IFM, TRNS_RATING_CBM, TRNS_RATING_CONSTRAINT, TRNS_RATING_MTC, TRNS_RATING_OTC, TRNS_RATING_TRM, TRNS_RATING_TRM_FTO, TRNS_RATING_TRM_SPI, TRNS_RATING_TRM_UF, TRNS_RATING_TTC, TRNS_TR_USEAGE, RATING_ATC

PRC_MPM_LMP	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_LMP&market_run_id=DAM&grp_type=ALL_APNODES&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
	OR
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_LMP&market_run_id=DAM&node=3EMIDIO_6_N001&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
	NOTE:
	1. Recommend to use grp_type or node only. Grp_type will give all the APNODES or ALL NODES groups and node can enable users to select individual APNODES or PNODES.
	2. The "enddatetime" is ignored if the query is to pull "ALL" or "ALL_APNODES" nodes; ie query will return only 1-day's worth of data for all nodes at a time based on the "startdatetime" supplied
	3. The "enddatetime" is referenced only when a node is supplied in the query
PRC_MPM_RTM_LMP	**HASP**
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_LMP&market_run_id=HASP&grp_type=ALL_APNODES&startdatetime=20130920T06:00-0000&enddatetime=20130920T07:00-0000&version=1
	OR
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_LMP&market_run_id=HASP&node=3EMIDIO_6_N001&startdatetime=20130919T07:00-0000&enddatetime=20130919T08:00-0000&version=1
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_LMP&market_run_id=HASP&grp_type=ALL_APNODES&startdatetime=20130920T06:00-0000&enddatetime=20130920T07:00-0000&version=2
	OR
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_LMP&market_run_id=HASP&node=3EMIDIO_6_N001&startdatetime=20130919T07:00-0000&enddatetime=20130919T08:00-0000&version=2
	RTPD
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_LMP&market_run_id=RTPD&grp_type=ALL_APNODES&startdatetime=20130920T06:00-0000&enddatetime=20130920T07:00-0000&version=1
	OR
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_LMP&market_run_id=RTPD&node=3EMIDIO_6_N001&startdatetime=20130919T07:00-0000&enddatetime=20130919T08:00-0000&version=1
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_LMP&market_run_id=RTPD&grp_type=ALL_APNODES&startdatetime=20130920T06:00-0000&enddatetime=20130920T07:00-0000&version=2
	OR
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_LMP&market_run_id=RTPD&node=3EMIDIO_6_N001&startdatetime=20130919T07:00-0000&enddatetime=20130919T08:00-0000&version=2
	OR

	RTD http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_LMP&market_run_id=RTD&grp_type=ALL_APNODES&startdatetime=20160920T06:00-0000&enddatetime=20160920T07:00-0000&version=4 OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_LMP&market_run_id=RTD&node=3EMIDIO_6_N001&startdatetime=20160919T07:00-0000&enddatetime=20160919T08:00-0000&version=4 http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_LMP&market_run_id=RTD&grp_type=ALL_APNODES&startdatetime=20160920T06:00-0000&enddatetime=20160920T07:00-0000&version=4 OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_LMP&market_run_id=RTD&node=3EMIDIO_6_N001&startdatetime=20160919T07:00-0000&enddatetime=20160919T08:00-0000&version=4 NOTE: 1. -Recommend to use grp_type or node only. Grp_type will give all the APNODES or ALL NODES groups and node can enable users to select individual APNODES or PNODES. 2. The "enddatetime" is ignored if the query is to pull "ALL" or "ALL_APNODES" nodes; ie query will return only 1 hours' worth of data for all nodes at a time based on the "startdatetime" supplied 3. The "enddatetime" is referenced only when a node is supplied in the query 4. Only new version (version=2) introduced as part of Fall 2014 release will include new element LMP_GHG_PRC.	
PRC_MPM_NOMOGRAM	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_NOMOGRAM&market_run_id=DAM&nomogram_id=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1	
PRC_MPM_RTM_NOMOGRAM	HASP http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_NOMOGRAM&market_run_id=HASP&nomogram_id=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1 RTPD http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_NOMOGRAM&market_run_id=RTPD&nomogram_id=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1 RTD http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_NOMOGRAM&market_run_id=RTD&nomogram_id=ALL&startdatetime=20160919T07:00-0000&enddatetime=20160920T07:00-0000&version=4	

PRC_MPM_NOMOGRAM_CMP	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_NOMOGRAM_CMP&market_run_id=DAM&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
PRC_MPM_RTM_NOMOGRAM_CMP	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_NOMOGRAM_CMP&market_run_id=HASP&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1 OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_NOMOGRAM_CMP&market_run_id=RTPD&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1 OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_NOMOGRAM_CMP&market_run_id=RTD&startdatetime=20160919T07:00-0000&enddatetime=20160920T07:00-0000&version=4
PRC_MPM_CNSTR	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_CNSTR&market_run_id=DAM&ti_id=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
PRC_MPM_RTM_FLOWGATE	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_FLOWGATE&market_run_id=HASP&ti_id=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1 http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_FLOWGATE&market_run_id=RTPD&ti_id=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1 http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_FLOWGATE&market_run_id=RTD&ti_id=ALL&startdatetime=20160919T07:00-0000&enddatetime=20160920T07:00-0000&version=4
PRC_MPM_CNSTR_CMP	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_CNSTR_CMP&market_run_id=DAM&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1 http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_CNSTR_CMP&market_run_id=HASP&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1 http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_CNSTR_CMP&market_run_id=RTPD&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1 http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_CNSTR_CMP&market_run_id=RTD&startdatetime=20160919T07:00-0000&enddatetime=20160920T07:00-0000&version=4
PRC_MPM_REF_BUS	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_REF_BUS&market_run_id=DAM&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
PRC_MPM_RTM_REF_BUS	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_REF_BUS&market_run_id=HASP&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1 http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_REF_BUS&market_run_id=RTPD&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1

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	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_REF_BUS&market_run_id=RTD&startdatetime=20160919T07:00-0000&enddatetime=20160920T07:00-0000&version=4
PRC_GHG_ALLOWANCE	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_GHG_ALLOWANCE&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
PRC_EIM_GHG	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_EIM_GHG&market_run_id=RTPD&startdatetime=20141001T07:00-0000&enddatetime=20141002T07:00-0000&version=2 OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_EIM_GHG&market_run_id=RTD&startdatetime=20141001T07:00-0000&enddatetime=20141002T07:00-0000&version=2
PRC_SPTIE_LMP	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_SPTIE_LMP&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=3&market_run_id=DAM&grp_type=ALL_APNODES OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_SPTIE_LMP&startdatetime=20160919T07:00-0000&enddatetime=20160920T07:00-0000&version=4&market_run_id=DAM&grp_type=ALL_APNODES OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_SPTIE_LMP&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=3&market_run_id=DAM&node=LAPLMG1_7_B2 OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_SPTIE_LMP&startdatetime=20160919T07:00-0000&enddatetime=20160920T07:00-0000&version=4&market_run_id=DAM&node=LAPLMG1_7_B2 OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_SPTIE_LMP&startdatetime=20130919T07:00-0000&enddatetime=20130919T08:00-0000&version=3&market_run_id=RTPD&grp_type=ALL_APNODES OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_SPTIE_LMP&startdatetime=20160919T07:00-0000&enddatetime=20160919T08:00-0000&version=4&market_run_id=RTPD&grp_type=ALL_APNODES OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_SPTIE_LMP&startdatetime=20130919T07:00-0000&enddatetime=20130919T08:00-0000&version=3&market_run_id=RTPD&node=LAPLMG1_7_B2 OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_SPTIE_LMP&startdatetime=20160919T07:00-0000&enddatetime=20160919T08:00-0000&version=4&market_run_id=RTPD&node=LAPLMG1_7_B2 OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_SPTIE_LMP&startdatetime=20130919T07:00-0000&enddatetime=20130919T08:00-0000&version=3&market_run_id=RTD&grp_type=ALL_APNODES

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OR

http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_SPTIE_LMP&startdatetime=20160919T07:00-0000&enddatetime=20160919T08:00-0000&version=4&market_run_id=RTD&grp_type=ALL_APNODES

OR

http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_SPTIE_LMP&startdatetime=20130919T07:00-0000&enddatetime=20130919T08:00-0000&version=3&market_run_id=RTD&node=LAPLMG1_7_B2

OR

http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_SPTIE_LMP&startdatetime=20160919T07:00-0000&enddatetime=20160919T08:00-0000&version=4&market_run_id=RTD&node=LAPLMG1_7_B2

NOTE:

0.1.   Recommend to use grp_type or node only. Grp_type will give all the APNODES or ALL NODES groups and node can enable users to select individual APNODES or PNODES.
0.2.   The "enddatetime" is ignored if the query is to pull "ALL" or "ALL_APNODES" nodes; ie query will return only 1-days' worth of data for all nodes at a time based on the "startdatetime" supplied
0.3.   The "enddatetime" is referenced only when a node is supplied in the query

0.4   The v4 version will include the following additional components

   LMP_ENE_PRC

   LMP_LOSS_PRC

   LMP_GHG_PRC

PRC_RTM_SCH_CNSTR	RTPD http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_RTM_SCH_CNSTR&market_run_id=RTPD&sch_cnstr_id=ALL&startdatetime=20160919T07:00-0000&enddatetime=20160920T07:00-0000&version=4 RTD http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_RTM_SCH_CNSTR&market_run_id=RTD&sch_cnstr_id=ALL&startdatetime=20160919T07:00-0000&enddatetime=20160920T07:00-0000&version=4
SYSTEM DEMAND	
SLD_FCST_PEAK	http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_FCST_PEAK&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
SLD_FCST	http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_FCST&market_run_id=DAM&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1

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	http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_FCST&market_run_id=2DA&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1 http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_FCST&market_run_id=7DA&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1 http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_FCST&market_run_id=RTM&execution_type=RTD&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1 http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_FCST&market_run_id=RTM&execution_type=RTPD&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
SLD_REN_FCST	http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_REN_FCST&market_run_id=DAM&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1 http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_REN_FCST&market_run_id=RTPD&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1 http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_REN_FCST&market_run_id=RTD&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
SLD_ADV_FCST	http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_ADV_FCST&market_run_id=RTPD&startdatetime=20160419T07:00-0000&enddatetime=20160420T07:00-0000&version=4 OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_ADV_FCST&market_run_id=RTD&startdatetime=20160419T07:00-0000&enddatetime=20160420T07:00-0000&version=4
ENERGY	
ENE_SLRS	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_SLRS&market_run_id=DAM&tac_zone_name=ALL&schedule=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
ENE_EA	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_EA&energy_type=ALL&opr_interval=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1 http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_EA&energy_type=ALL&opr_interval=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=2
ENE_MPM	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_MPM&market_run_id=DAM&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1 OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_MPM&market_run_id=RTM&execution_type=HASP&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1 OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_MPM&market_run_id=RTM&execution_type=RTPD&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1 http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_MPM&market_run_id=DAM&baa_id=ALL&startdatetime=20141001T07:00-0000&enddatetime=20141002T07:00-0000&version=2 OR

	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_MPM&market_run_id=RTM&execution_type=HASP&baa_id=ALL&startdatetime=20141001T07:00-0000&enddatetime=20141002T07:00-0000&version=2 OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_MPM&market_run_id=RTM&execution_type=RTPD&baa_id=ALL&startdatetime=20141001T07:00-0000&enddatetime=20141002T07:00-0000&version=2 OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_MPM&market_run_id=RTM&execution_type=RTD&baa_id=ALL&startdatetime=20161001T07:00-0000&enddatetime=20161002T07:00-0000&version=4
CMMT_RMR	http://oasis.caiso.com/oasisapi/SingleZip?queryname=CMMT_RMR&market_run_id=DAM&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
ENE_DISP	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_DISP&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
ENE_LOSS	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_LOSS&market_run_id=DAM&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
CMMT_RA_MLC	http://oasis.caiso.com/oasisapi/SingleZip?queryname=CMMT_RA_MLC&market_run_id=DAM&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
ENE_CB_AWARDS	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_CB_AWARDS&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
ENE_CB_CLR_AWARDS	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_CB_CLR_AWARDS&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
ENE_CB_MKT_SUM	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_CB_MKT_SUM&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
CB_NODAL_LIMITS	http://oasis.caiso.com/oasisapi/SingleZip?queryname=CB_NODAL_LIMITS&node_id=RNCHSECO_2_N108&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
ENE_CD_SLRS	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_CD_SLRS&market_run_id=RTM&tac_zone_name=ALL&schedule=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
AGGR_OUTAGE_SCH	http://oasis.caiso.com/oasisapi/SingleZip?queryname=AGGR_OUTAGE_SCH&fuel_category=Renewable&trading_hub=NP15&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
ENE_EIM_TRANSFER_LIMITS	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_EIM_TRANSFER_LIMITS&market_run_id=RTD&baa_grp_id=ALL&startdatetime=20141001T07:00-0000&enddatetime=20141002T07:00-0000&version=2 http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_EIM_TRANSFER_LIMITS&market_run_id=RTPD&baa_grp_id=ALL&startdatetime=20141001T07:00-0000&enddatetime=20141002T07:00-0000&version=2 http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_EIM_TRANSFER_LIMITS&market_run_id=ALL&baa_grp_id=ALL&startdatetime=20141001T07:00-0000&enddatetime=20141002T07:00-0000&version=2
ENE_EIM_TRANSFER	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_EIM_TRANSFER&market_run_id=RTD&baa_grp_id=ALL&startdatetime=20141001T07:00-0000&enddatetime=20141002T07:00-0000&version=2 http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_EIM_TRANSFER&market_run_id=RTPD&baa_grp_id=ALL&startdatetime=20141001T07:00-0000&enddatetime=20141002T07:00-0000&version=2

	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_EIM_TRANSFER&market_run_id=ALL&baa_grp_id=ALL&startdatetime=20141001T07:00-0000&enddatetime=20141002T07:00-0000&version=2
ENE_EIM_DYN_NSI	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_EIM_DYN_NSI&market_run_id=RTD&baa_id=ALL&startdatetime=20141001T07:00-0000&enddatetime=20141002T07:00-0000&version=2 http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_EIM_DYN_NSI&market_run_id=RTPD&baa_id=ALL&startdatetime=20141001T07:00-0000&enddatetime=20141002T07:00-0000&version=2 http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_EIM_DYN_NSI&market_run_id=ALL&baa_id=ALL&startdatetime=20141001T07:00-0000&enddatetime=20141002T07:00-0000&version=2
ENE_BASE_NSI	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_BASE_NSI&market_run_id=DAM&baa_id=ALL&snapshot_indicator=DA&startdatetime=20141001T07:00-0000&enddatetime=20141002T07:00-0000&version=2 http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_BASE_NSI&market_run_id=RTPD&baa_id=ALL&startdatetime=20141001T07:00-0000&enddatetime=20141002T07:00-0000&version=2 http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_BASE_NSI&market_run_id=RTD&baa_id=ALL&snapshot_indicator=T75MIN&startdatetime=20141001T07:00-0000&enddatetime=20141002T07:00-0000&version=2 snapshot_indicator = T75MIN, T55MIN, T40MIN, DA
ENE_HRLY_BASE_NSI	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_HRLY_BASE_NSI&market_run_id=DAM&baa_id=ALL&snapshot_indicator=ALL&startdatetime=20161001T07:00-0000&enddatetime=20161002T07:00-0000&version=4 http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_HRLY_BASE_NSI&market_run_id=RTM&baa_id=ALL&snapshot_indicator=ALL&startdatetime=20161001T07:00-0000&enddatetime=20161002T07:00-0000&version=2 Snapshot_indicator = T75MIN, T55MIN, T40MIN, DA
ENE_UNCERTAINTY_MV	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_UNCERTAINTY_MV&market_run_id=RTD&baa_grp_id=ALL&startdatetime=20160401T07:00-0000&enddatetime=20160402T07:00-0000&version=4
ENE_FLEX_RAMP_REQT	Before Fall 2016 release http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_FLEX_RAMP_REQT&market_run_id=RTPD&baa_grp_id=ALL&startdatetime=20160401T07:00-0000&enddatetime=20160402T07:00-0000&version=4 OR After Fall 2016 release http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_FLEX_RAMP_REQT&market_run_id=RTMFD&baa_grp_id=ALL&startdatetime=20160401T07:00-0000&enddatetime=20160402T07:00-0000&version=4

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	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_FLEX_RAMP_REQT&market_run_id=RTD&baa_grp_id=ALL&startdatetime=20160401T07:00-0000&enddatetime=20160402T07:00-0000&version=4
ENE_AGGR_FLEX_RAMP	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_AGGR_FLEX_RAMP&market_run_id=RTPD&baa_grp_id=ALL&startdatetime=20160401T07:00-0000&enddatetime=20160402T07:00-0000&version=4 OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_AGGR_FLEX_RAMP&market_run_id=RTD&baa_grp_id=ALL&startdatetime=20160401T07:00-0000&enddatetime=20160402T07:00-0000&version=4
ENE_FLEX_RAMP_DC	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_FLEX_RAMP_DC&market_run_id=RTMPD&baa_grp_id=ALL&startdatetime=20160401T07:00-0000&enddatetime=20160402T07:00-0000&version=4 http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_FLEX_RAMP_DC&market_run_id=RTD&baa_grp_id=ALL&startdatetime=20160401T07:00-0000&enddatetime=20160402T07:00-0000&version=4
ANCILLARY	
AS_REQ	http://oasis.caiso.com/oasisapi/SingleZip?queryname=AS_REQ&market_run_id=DAM&anc_type=ALL&anc_region=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1 OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=AS_REQ&market_run_id=HASP&anc_type=ALL&anc_region=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1 OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=AS_REQ&market_run_id=RTM&anc_type=ALL&anc_region=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
AS_RESULTS	http://oasis.caiso.com/oasisapi/SingleZip?queryname=AS_RESULTS&market_run_id=DAM&anc_type=ALL&anc_region=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1 OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=AS_RESULTS&market_run_id=HASP&anc_type=ALL&anc_region=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1 OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=AS_RESULTS&market_run_id=RTM&anc_type=ALL&anc_region=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
AS_OP_RSRV	http://oasis.caiso.com/oasisapi/SingleZip?queryname=AS_OP_RSRV&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
AS_MILEAGE_CALC	http://oasis.caiso.com/oasisapi/SingleZip?queryname=AS_MILEAGE_CALC&anc_type=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
CRR	
CRR_CLEARING	http://oasis.caiso.com/oasisapi/SingleZip?queryname=CRR_CLEARING&market_name=ALL&market_term=ALL&time_of_use=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1

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CRR_INVENTORY	http://oasis.caiso.com/oasisapi/SingleZip?queryname=CRR_INVENTORY&market_name=ALLOC_AN_2013_S03_TR&market_term=ALL&time_of_use=ALL&startdatetime=20130924T07:00-0000&enddatetime=20130925T07:00-0000&version=1
PUBLICBIDS	
PUB_BID	http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_RTM_GRP&startdatetime=20130919T07:00-0000&version=1 (for RTM) or OR http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_RTM_GRP&startdatetime=20160919T07:00-0000&version=2 (for RTM) Note : version 2 will provide GHG product. OR http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_DAM_GRP&startdatetime=20130919T07:00-0000&version=1 (for DAM)
PUB_CB_BID	http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_CB_DAM_GRP&startdatetime=20130919T07:00-0000&version=1 (for DAM) http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_CB_DAM_GRP&startdatetime=20130919T07:00-0000&version=2 (for DAM)
PUB_CRR_BID	http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_CRR_BID_SEASONAL_GRP&startdatetime=20130919T07:00-0000&version=1 http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_CRR_BID_MONTHLY_GRP&startdatetime=20130919T07:00-0000&version=1
ATLAS	
ATL_PNODE	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_PNODE&Pnode_id=12THST_6_N101&Pnode_type=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
ATL_APNODE	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_APNODE&APnode_type=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
ATL_LDF	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_LDF&apnode_id=AGRICO_6_PL3N5_APND&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
ATL_LAP	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_LAP&APnode_type=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
ATL_RESOURCE	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_RESOURCE&resource_id=8MILE_2_V200LD&agge_type=ALL&resource_type=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
ATL_HUB	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_HUB&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
ATL_PNODE_MAP	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_PNODE_MAP&pnode_id=KEARNY_7_KY2D&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
ATL_AS_REGION_MAP	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_AS_REGION_MAP&as_region_id=A54_CNTR&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
ATL_RUC_ZONE_MAP	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_RUC_ZONE_MAP&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1

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ATL_TAC_AREA	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_TAC_AREA_MAP&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
ATL_TIEPOINT	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_TIEPOINT&resource_type=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
ATL_TI	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_TI&Ti_type=ALL&wecc_path=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
ATL_PUB	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_PUB&market_run_id=DAM&oasis_section=ALL&status=ALL&atlpubversion=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
ATL_PUB_SCHED	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_PUB_SCHED&market_run_id=DAM&oasis_section=ALL&publication_type=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
ATL_OSM	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_OSM&msg_severity=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
ATL_PEAK_ON_OFF	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_PEAK_ON_OFF&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
ATL_CBNODE	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_CBNODE&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=2

7. Group Report Definitions

This section contains all GroupIDs and corresponding reports.

GroupID	Reports In Group	Market Type	Report XML Names
DAM_LMP_GRP	Locational Marginal Prices (LMP)	DAM	PRC_LMP (Note: 4 files will be created LMP, MCC, MCE, MCL for the trade date & will be cached for all nodes)
DAM_SPTIE_LMP_GRP	DAM Scheduling Point Tie Locational Marginal Prices (LMP)	DAM	PRC_SPTIE LMP (Note: For version=3, 2 files will be created LMP, MCC for the trade date & will be cached for all nodes and for version =4, 4 files will be created LMP, MCC, MCE and MCL for the trade date)
RTPD_SPTIE LMP_GRP	RTPD Scheduling Point Tie Locational Marginal Prices (LMP)	RTPD	PRC_SPTIE_LMP (Note: Hourly 4 intervals cached files for trade date & will be cached for all nodes)
RTD_SPTIE_LMP_GRP	RTD Scheduling Point Tie Locational Marginal Prices (LMP)	RTD	PRC_SPTIE_LMP (Note: Hourly 12 intervals cached files for trade date & will be cached for all
RUC_LMP_GRP	Locational Marginal Prices (LMP)	RUC	PRC_LMP (Note: 1 file will be created LMP for the trade date & will be cached for all nodes)
HASP_LMP_GRP	HASP Locational Marginal Prices (LMP)	HASP	PRC_HASP_LMP (Note: Hourly 4 intervals cached files for trade date & will be cached for all nodes)
RTPD_LMP_GRP	RTPD Locational Marginal Prices (LMP)	RTPD	PRC_RTPD_LMP (Note: Hourly 4 intervals cached files for trade date & will be cached for all nodes)
RTM_LMP_GRP	Interval Locational Marginal Prices (LMP)	RTM	PRC_INTVL_LMP (Note: Hourly 12 intervals cached files for trade date

			& will be cached for all nodes)
DAM_PRC_AS_GRP	AS Clearing Prices	DAM	PRC_AS (Note: Daily cached files for trade date & will be cached for all AS Regions)
HASP_PRC_AS_GRP	AS Clearing Prices	HASP	PRC_AS (Note: Daily cached files for trade date & will be cached for all AS Regions)
RTM_PRC_AS_GRP	Interval AS Clearing Prices	RTM	PRC_INTVL_AS (Note: Hourly 4 intervals cached files for trade date & will be cached for all AS Regions)
DAM_TRNS_GRP	Transmission Interface Usage Market Available Transmission Capacity	DAM DAM	TRNS_USAGE TRNS_ATC
HASP_TRNS_GRP	Transmission Interface Usage Market Available Transmission Capacity	HASP HASP	TRNS_USAGE TRNS_ATC
RTPD_TRNS_GRP	Transmission Interface Usage Market Available Transmission Capacity	RTPD RTPD	TRNS_USAGE TRNS_ATC
DAM1_GRP	TAC Area Demand Forecast System Load and Resource Schedules Market Power Mitigation Status RMR Marginal Losses	DAM DAM DAM DAM DAM	SLD_FCST ENE_SLRS ENE_MPM CMMT_RMR ENE_LOSS
RTM1_GRP (RTD)	TAC Area Load Forecast System Load and Resource Schedules	RTM/RTD RTM	SLD_FCST ENE_SLRS
RTPD_FCST_GRP	TAC Area Load Forecast	RTM/RTPD	SLD_FCST

HASP1_GRP	System Load and Resource Schedules	HASP	ENE_SLRS
	TAC Area Load Forecast	HASP	SLD_FCST
	RMR	HASP	CMMT_RMR
	Marginal Losses	HASP	ENE_LOSS
POST1_GRP	Expected Energy	N/A	ENE_EA
	Exceptional Dispatch		ENE_DISP
DAM_AS_GRP	AS Requirements	DAM	AS_REQ
	AS Results	DAM	AS_RESULTS
HASP_AS_GRP	AS Requirements	HASP	AS_REQ
	AS Results		AS_RESULTS
RTM_AS_GRP	AS Requirements	RTM	AS_REQ
	AS Results	(RTPD)	AS_RESULTS
PUB_DAM_GRP	Public Bids	DAM	PUB_BID
PUB_RTM_GRP	Public Bids	RTM	PUB_BID
CURR_LMP_GRP	Current interval Price	RTM	PRC_CURR_LMP
DAM_SD_PRC_GRP	Constraint Shadow Prices	DAM	PRC_CNSTR
	Nomogram/Branch Shadow Prices		PRC_NOMOGRAM
HASP_SD_PRC_GRP	Constraint Shadow Prices	HASP	PRC_CNSTR
	Nomogram/Branch Shadow Prices		PRC_NOMOGRAM
RTM_SD_PRC_GRP	Constraint Shadow Prices	RTM	PRC_CNSTR
	Nomogram/Branch Shadow Prices		PRC_NOMOGRAM

PUB_CB_DAM_GRP	Public CB Bids	DAM	PUB_CB_BID
CB_REF_PRC_GRP	Reference Prices	DAM	PRC_DS_REF (Note: File will be created for Supply & Demand Prices for the effective date ranges (quarterly) for all nodes.)
CB_CLR_DAM_GRP	Net Cleared Awards	DAM	ENE_CB_CLR_AWARDS
CB_NODAL_LMT_GRP	Nodal Limit MW values	DAM	CB_NODAL_LIMITS
DAM_FLEX_RAMP_GRP	System ramping nomogram results from DAM market run	DAM	PRC_FLEX_RAMP
RTPD_FLEX_RAMP_GRP	System ramping nomogram results from RTPD market run	RTPD	PRC_FLEX_RAMP
RTD_FLEX_RAMP_GRP	System ramping nomogram results from RTD market run	RTD	PRC_FLEX_RAMP
DAM_MPM_LMP_GRP	MPM Locational Marginal Prices (LMP)	DAM	PRC_MPM_LMP PRC_MPM_LMP_DAM_MCCC PRC_MPM_LMP_DAM_MCCNC PRC_MPM_LMP_DAM_MCE PRC_MPM_LMP_DAM_MCL
HASP_MPM_LMP_GRP	MPM HASP Locational Marginal Prices (LMP)	HASP	PRC_MPM_RTM_LMP_HASP
RTPD_MPM_LMP_GRP	MPM RTPD Locational Marginal Prices (LMP)	RTPD	PRC_MPM_RTM_LMP_RTPD

RTD_MPM_LMP_GRP	MPM RTD Locational Marginal Prices (LMP)	RTD	PRC_MPM_RTM_LMP_RTD
DAM_MPM_SD_PRC_GRP	MPM Constraint Shadow Prices MPM Constraint Competitive Paths MPM Nomogram/Branch Shadow Prices MPM Nomogram/Branch Competitive Paths	DAM	PRC_MPM_CONSTR PRC_MPM_CONSTR_CMP PRC_MPM_NOMOGRAM PRC_MPM_NOMOGRAM_CMP
HASP_MPM_SD_PRC_GRP	MPM Flowgate Competitive Paths MPM Flowgate Shadow Prices MPM Nomogram/Branch Competitive Paths MPM Nomogram/Branch Shadow Prices	HASP	PRC_MPM_RTM_FLOWGATE_CMP_HASP PRC_MPM_RTM_FLOWGATE_HASP PRC_MPM_NOMOGRAM_CMP_HASP PRC_MPM_NOMOGRAM_HASP
RTPD_MPM_SD_PRC_GRP	MPM Flowgate Competitive Paths MPM Flowgate Shadow Prices MPM Nomogram/Branch Competitive Paths MPM Nomogram/Branch Shadow Prices	RTPD	PRC_MPM_RTM_FLOWGATE_CMP_RTPD PRC_MPM_RTM_FLOWGATE_RTPD PRC_MPM_RTM_NOMOGRAM_CMP_RTPD PRC_MPM_RTM_NOMOGRAM_RTPD
RTD_MPM_SD_PRC_GRP	MPM Flowgate Competitive Paths MPM Flowgate Shadow Prices MPM Nomogram/Branch Competitive Paths MPM Nomogram/Branch Shadow Prices	RTD	PRC_MPM_RTM_FLOWGATE_CMP_RTD PRC_MPM_RTM_FLOWGATE_RTD PRC_MPM_RTM_NOMOGRAM_CMP_RTD PRC_MPM_RTM_NOMOGRAM_RTD
PUB_CRR_BID_SEASONAL_GRP	Congestion Revenue Rights (CRR) Public Bids From the Annual Auction	SEASONAL	PUB_CRR_BID
PUB_CRR_BID_MONTHLY_GRP	Congestion Revenue Rights (CRR) Public Bids From the Monthly Auction	MONTHLY	PUB_CRR_BID

AGGR_OUTAGE_SCH_GRP	Aggregated Generation Outages data	N/A	AGGR_OUTAGE_SCH

8. Group URL Query Strings

This section contains examples of all Group report URL Examples for XML Downloads. For CSV for~~need~~mat ~~as~~use resultformat=6 as specified above.

Group ID	Example URL for XML Download
PRICES	
DAM_LMP_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_LMP_GRP&startdatetime=20130919T07:00-0000&version=1
DAM_SPTIE_LMP_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_SPTIE_LMP_GRP&startdatetime=20130919T07:00-0000&version=3 OR http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_SPTIE_LMP_GRP&startdatetime=20160919T07:00-0000&version=4
RUC_LMP_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=RUC_LMP_GRP&startdatetime=20130919T07:00-0000&version=1
HASP_LMP_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=HASP_LMP_GRP&startdatetime=20130919T07:00-0000&enddatetime=20130919T08:00-0000&version=1
RTPD_LMP_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTPD_LMP_GRP&startdatetime=20130919T07:00-0000&enddatetime=20130919T08:00-0000&version=1
RTPD_SPTIE_LMP_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTPD_SPTIE_LMP_GRP&startdatetime=20130919T07:00-0000&enddatetime=20130919T08:00-0000&version=3 OR http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTPD_SPTIE_LMP_GRP&startdatetime=20160919T07:00-0000&enddatetime=20160919T08:00-0000&version=4
RTM_LMP_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTM_LMP_GRP&startdatetime=20130919T07:00-0000&enddatetime=20130919T08:00-0000&version=1
RTD_SPTIE_LMP_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTD_SPTIE_LMP_GRP&startdatetime=20130919T07:00-0000&enddatetime=20130919T08:00-0000&version=3 OR http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTD_SPTIE_LMP_GRP&startdatetime=20160919T07:00-0000&enddatetime=20160919T08:00-0000&version=4
DAM_PRC_AS_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_PRC_AS_GRP&startdatetime=20130919T07:00-0000&version=1
HASP_PRC_AS_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=HASP_PRC_AS_GRP&startdatetime=20130919T07:00-0000&version=1
RTM_PRC_AS_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTM_PRC_AS_GRP&startdatetime=20130919T07:00-0000&version=1
DAM_TRNS_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_TRNS_GRP&startdatetime=20130919T07:00-0000&version=1

Group ID	Example URL for XML Download
HASP_TRNS_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=HASP_TRNS_GRP&startdatetime=20130919T07:00-0000&version=1
RTPD_TRNS_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTPD_TRNS_GRP&startdatetime=20130919T07:00-0000&version=1
DAM1_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM1_GRP&startdatetime=20130919T07:00-0000&version=1
RTM1_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTM1_GRP&startdatetime=20130919T07:00-0000&version=1
RTPD_FCST_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTPD_FCST_GRP&startdatetime=20130919T07:00-0000&version=1
HASP1_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=HASP1_GRP&startdatetime=20130919T07:00-0000&version=1
POST1_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=POST1_GRP&startdatetime=20130919T07:00-0000&version=1
DAM_AS_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_AS_GRP&startdatetime=20130919T07:00-0000&version=1
HASP_AS_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=HASP_AS_GRP&startdatetime=20130919T07:00-0000&version=1
RTM_AS_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTM_AS_GRP&startdatetime=20130919T07:00-0000&version=1
PUB_DAM_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_DAM_GRP&startdatetime=20130919T07:00-0000&version=1
PUB_RTM_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_RTM_GRP&startdatetime=20130919T07:00-0000&version=1
CURR_LMP_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=CURR_LMP_GRP&startdatetime=20130919T07:00-0000&version=1
DAM_SD_PRC_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_SD_PRC_GRP&startdatetime=20130919T07:00-0000&version=1
HASP_SD_PRC_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=HASP_SD_PRC_GRP&startdatetime=20130919T07:00-0000&version=1
RTM_SD_PRC_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTM_SD_PRC_GRP&startdatetime=20130919T07:00-0000&version=1
PUB_CB_DAM_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_CB_DAM_GRP&startdatetime=20130919T07:00-0000&version=1
CB_REF_PRC_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=CB_REF_PRC_GRP&startdatetime=20130919T07:00-0000&version=1 http://oasis.caiso.com/oasisapi/GroupZip?groupid=CB_REF_PRC_GRP&startdatetime=20130919T07:00-0000&version=3
CB_CLR_DAM_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=CB_CLR_DAM_GRP&startdatetime=20130919T07:00-0000&version=1
CB_NODAL_LMT_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=CB_NODAL_LMT_GRP&resultformat=5&startdatetime=20130919T07:00-0000&version=1
DAM_FLEX_RAMP_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_FLEX_RAMP_GRP&startdatetime=20130919T07:00-0000&version=1
RTPD_FLEX_RAMP_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTPD_FLEX_RAMP_GRP&startdatetime=20130919T07:00-0000&version=1
RTD_FLEX_RAMP_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTD_FLEX_RAMP_GRP&startdatetime=20130919T07:00-0000&version=1
DAM_MPM_LMP_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_MPM_LMP_GRP&startdatetime=20130919T07:00-0000&version=1

Group ID	Example URL for XML Download
HASP_MPM_LMP_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=HASP_MPM_LMP_GRP&startdatetime=20130919T07:00-0000&enddatetime=20130919T08:00-0000&version=1
RTPD_MPM_LMP_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTPD_MPM_LMP_GRP&startdatetime=20130919T07:00-0000&enddatetime=20130919T08:00-0000&version=1
RTD_MPM_LMP_GRP	http://oasis.caiso.Com/oasisapi/GroupZip?groupid=RTD_MPM_LMP_GRP&startdatetime=20160919T07:00-0000&enddatetime=20160919T08:00-0000&version=4
DAM_MPM_SD_PRC_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_MPM_SD_PRC_GRP&startdatetime=20130919T07:00-0000&version=1
HASP_MPM_SD_PRC_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=HASP_MPM_SD_PRC_GRP&startdatetime=20130919T07:00-0000&version=1
RTPD_MPM_SD_PRC_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTPD_MPM_SD_PRC_GRP&startdatetime=20130919T07:00-0000&version=1
RTD_MPM_SD_PRC_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTD_MPM_SD_PRC_GRP&startdatetime=20160919T07:00-0000&version=4
PUB_CRR_BID_SEASONAL_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_CRR_BID_SEASONAL_GRP&startdatetime=20130919T07:00-0000&version=1
PUB_CRR_BID_MTHLY_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_CRR_BID_MTHLY_GRP&startdatetime=20130919T07:00-0000&version=1
AGGR_OUTAGE_SCH_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=AGGR_OUTAGE_SCH_GRP&startdatetime=20130919T07:00-0000&version=1

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9. Versioning and Namespace domain reference

With the GMT release, the namespace domain is changing from the environment specific URL to use www.caiso.com/soa/*.xsd. So for the January 2015 release, the namespaces for the various reports are:

Namespace	Major Version	Minor Version
http://www.caiso.com/soa/OASISBid_v1.xsd	1	20131201
http://www.caiso.com/soa/OASISCBBid_v1.xsd	1	20131201
http://www.caiso.com/soa/OASISCRRPublicBid_v1.xsd	1	20131201
http://www.caiso.com/soa/OASISMaster_v1.xsd	1	20131201
http://www.caiso.com/soa/OASISReport_v1.xsd	1	20140401
http://www.caiso.com/soa/OASISReport_v2.xsd	2	20141001
http://www.caiso.com/soa/OASISReport_v3.xsd	3	20150101

10. Schema Files Changes

This section contains the summary of the schema changes involved in the Fall January 20165 release.

Schema File Name	Change Description
OASISReport_v43.xsd	1. Updated major version to v3 and minor version to 20150101 2. Added PRC_SPTIE_LMP, PRC_CD_SPTIE_LMP to OASISReportType element 1. Added TIE_NAME element to REPORT_DATAOASIS element.

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Schema File Name	Change Description
	3.1.Fall 2016 release changes.
OASISReport_v1.xsd	No changes
OASISReport_v2.xsd	No changes
OASISReport_v3.xsd	No changes
OASISBid_v1.xsd	No changes
OASISBid_v2.xsd	Fall 2016 Change
OASISCBBid_v1.xsd	No changes
OASISCBBid_v2.xsd	No changes
OASISMaster_v1.xsd	No changes
OASISCRRPublicBid_v1.xsd	No changes

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11. Long day and short day request examples

Here are the example URL's for long day and short day with the GMT version of the OASIS APIs services:

Short day

http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_CB_CLR_AWARDS&startdatetime=20130310T08:00-0000&enddatetime=20130311T07:00-0000&version=1

HE03 is skipped

Long day

http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_CB_CLR_AWARDS&startdatetime=20131103T07:00-0000&enddatetime=20131104T08:00-0000&version=1

HE 25 is the repeating hour