

Interface Specification for OASIS

Fall Spring 2017 Release

Version: <u>5.0.0</u>4.3.5

0<u>3</u>2/<u>3</u>1<u>1</u>0/2017



Revision History

Date	Versi on	Description			
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			
Oct 24, 2013	4.0.1	Minor corrections and updates			
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.			
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			
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.			
Mar 4 th , 2014	4.1.2	Renamed query parameter for SLD_FCST to be execution_type instead of exec_type for RTM market_run_id			
Mar 12, 2014	4.1.3	Added additional report query parameters for TRNS_USAGE and TRNS_CURR_USAGE			
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 			
		 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.			
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. 			
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)			
		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 			
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			
Mar 12, 2015	4.2.6	Updated occurrences of "Spring 2015" to "Independent 2015" release in the document			
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			
Apr 7,2016	4.3.0	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			
		 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			
June 2, 2016	4.3.1	Fall 2016 Release additional changes			
		Added new SLD_SF_EVAL_DMD_FCST report under System Demand section			
		Added new ENE_EIM_TRANSFER_TIE report under Energy section			
		Added 'RAMP_TYPE' element for the ENE_AGGR_FLEX_RAMP report			
		Updated the SLD_ADV_FCST report description			



Aug 19, 2016	4.3.2				
		Added new ENE_HRLY_BASE_LOSS report under Energy section			
Dec 2, 2016	4.3.3	Independent 2016 release			
		Introduced API services for below reports:			
		 Price Correction Messages – ATL_PRC_CORR_MSG 			
		 Scheduling Point Definition – ATL_SP 			
		 BAA and Tie Definition – ATL_BAA_TIE 			
		 Scheduling Point and Tie Definition – ATL_SP_TIE 			
		 Intertie Constraint and Scheduling Point Mapping – ATL_ITC_SP 			
		 Intertie Scheduling Limit and Tie Mapping – ATL_ISL_TIE 			
		 Wind And Solar Summary – ENE_WIND_SOLAR_SUMMARY 			
		 EIM Transfer Limits By Tie – ENE_EIM_TRANSFER_LIMITS_TIE 			
		 MPM Default Competitive Path Assesment List – PRC_MPM_DEFAULT_CMP 			
		Updates to LMP Price API's (split into individual price component files)			
		PRC_INTVL_LMP			
		PRC_RTPD_LMP			
		PRC_HASP_LMP			
		PRC_SPTIE_LMP (Group Names: RTD_SPTIE_LMP_GRP,RTPD_SPTIE_LMP_GRP)			
		Updates to TRNS_CURR_USAGE API (limit to current and future trade days only)			
Jan 20,2016	4.3.4	Updated the following MPM Services (Spring 2017)			
		Updated PRC_MPM_RTM_LMP service to remove the support for RTD LMPM			
		 Updated PRC_MPM_ RTM_NOMOGRAM to remove the support for RTD LMPM 			
		 Updated PRC_MPM_RTM_NOMOGRAM_CMP to remove the support for RTD LMPM 			
		 Updated PRC_MPM_RTM_FLOWGATE to remove the support for RTD LMPM 			
		 Updated PRC_MPM_CNSTR_CMP to remove the support for RTD LMPM 			
		 Updated PRC_MPM_RTM_REF_BUS to remove the support for RTD LMPM 			
		MPM Intertie Constraint Competitive Paths for RTD			



Feb 10, 2017	4.3.5	Updated the following MPM Services (Spring 2017)			
		 Updated PRC_MPM_RTM_REF_BUS to add support for RTD LMPM. Updated PRC_MPM_RTM_NOMOGRAM_CMP to add support for RTD LMPM. Updated PRC_MPM_CNSTR_CMP to add support for RTD LMPM. Added example API URLs for the following Services PRC_INTVL_LMP for version 3 PRC_SPTIE_LMP for version 5 PRC_HASP_LMP for version 3 PRC_RTPD_LMP for version 3 PRC_SPTIE_LMP for version 5 DAM_SPTIE_LMP_GRP for version 5 			
Mar 31, 2017	5.0.0	Added new service CSP_OFFER_SET for Competitive Solicitation Process Offer Set. Added new service ENE_FLEX_RAMP_INPUT for Flexible Ramp Requirements Input data. Added new service PRC_RTM_LAP for Hourly RTM LAP prices Pre Fall - 2017 Release document clean up Corrected ENE_MPM API sample URL to fix the incorrect version Corrected typo in PRC_MPM_DEFAULT_CMP service data element COMPETITIVE_FLAG			



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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.

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.zip

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 (eXtensible Markup Language) 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. 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 Fall2016 release, OASISReport.xsd will be moving to version v4.

XSD	Category	Description
OASISReport_v4.xsd	OASIS Data	This is the primary schema by which OASIS returns operational and market data.
schema is a derivative of		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.
schema is a deri		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	ASISMaster_v1.xsd Atlas Data This schema is tailored to the Atlas / Reference 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.
OASISCSPOfferSet_v1.xsd	CSP Offer Set	OASIS returns CSP offer Set data by this schema. This schema is derivative of the CSPOfferSet 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 do7wn 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=6 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
- 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. Oasis will include separate XML file for each price component within the same zip file. This is existing functionality.	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 - Congestion Component; LMP for each node tie combination;
Oasis will include separate XML file for each price component within the same zip file. This is current behavior for DAM. This behavior will be extended for other realtime markets in version 5.		LMP_ENE_PRC LMP_LOSS_PRC LMP_GHG_PRC	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 <i>Binding</i> LMP for PNodes and APNodes relevant to Hourly Pre-Dispatched Resources. Posts the HASP <i>Advisory</i> LMP for PNodes and APnodes relevant to the Non- Hourly Pre-Dispatch Resources.	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



Report/ResultSet	XML Name	XML Data Items	Description
For HASP, SC's should always utilize the CMRI posted price as the valid price for shadow-settlement purposes.			
Oasis will include separate XML file for each price component within the same zip file. This is current behavior for DAM. This behavior will be extended for other realtime markets in version 3.			
RTPD Locational Marginal Prices (LMP)	PRC_RTPD_LMP	LMP_CONG_PRC	LMP - Congestion
15-minute Locational Marginal Prices for all PNodes and APNodes in \$/MWh.		LMP_ENE_PRC LMP_LOSS_PRC LMP_PRC	Component; LMP - Energy Component; LMP - Losses Component; LMP for each Pnode and
Oasis will include separate XML file for each price component within the same zip file. This is current behavior for DAM. This behavior will be extended for other realtime markets in version 3.		LMP_GHG_PRC	APnode GHG price for EIM pnode and apnode
Interval Locational Marginal Prices (LMP)	PRC_INTVL_LMP	LMP_CONG_PRC	LMP - Congestion
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.		LMP_ENE_PRC LMP_LOSS_PRC LMP_PRC LMP_GHG_PRC	Component; LMP - Energy Component; LMP - Losses Component; LMP for each Pnode and APnode; GHG price for EIM pnode
Node on the report will include Pnodes and APnodes in ISO, EIM and non-EIM external networks			and apnode
Oasis will include separate XML file for each price component within the same zip file. This is current behavior for DAM. This behavior will be extended for other realtime markets in version 3.			
AS Clearing Prices	PRC_AS	NS_CLR_PRC RD_CLR_PRC	NonSpin Cleared Price; Regulation Down Cleared
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.		RU_CLR_PRC SP_CLR_PRC	Price; Regulation Up Cleared Price; Spin Cleared Price;
		RMD_CLR_PRC	Regulation Mileage Down Cleared Price.
		RMU_CLR_PRC	Regulation Mileage Up Cleared Price
Interval AS Clearing Prices	PRC_INTVL_AS	NS_CLR_PRC	NonSpin Cleared Price;
Ancillary Services Regional Shadow Prices for		RD_CLR_PRC	RegulationDown Cleared Price;
all Ancillary Service types at each AS Region and Sub-Regional Partition. Posts in \$/MW.		RU_CLR_PRC SP_CLR_PRC	RegulationUp Cleared Price; Spin Cleared Price;
Posts 15-Minute price relevant to the next 15 minute binding interval for RTM on a fifteen minute basis.		RMD_CLR_PRC	Regulation Mileage Down Cleared Price.
		RMU_CLR_PRC	Regulation Mileage Up Cleared Price.



Report/ResultSet	XML Name	XML Data Items	Description
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.	PRC_CNSTR	SHADOW_PRC	Shadow price by Transmission Interface and Intertie Constraint Will indicate either "Base
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		REASON	Case" or specific Contingency ID.
ITC ID			
Fuel Prices For each Gas Flow Day, lists the gas price in \$/mmBtu by fuel region.		FUEL_PRC	Daily Gas Price.
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	PRC_CURR_LMP	LMP_CONG_PRC LMP_ENE_PRC LMP_LOSS_PRC LMP_PRC LMP_PRC	LMP - Congestion Component; LMP - Energy Component; LMP - Losses Component; LMP for each Pnode and APnode; GHG price for EIM pnode and apnode
APnodes in ISO, EIM and non-EIM external networks	PRC_NOMOGRAM	SHADOW PRC	Shadow price by Nomogram
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			or Branch.
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.		<m:reason></m:reason>	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	PRC_RTM_NOMOG RAM	SHADOW_PRC	Shadow price by Nomogram or Branch.
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.		<m:reason></m:reason>	Will indicate either "Base Case" or specific Contingency ID.

Report/ResultSet	XML Name	XML Data Items	Description
Interval Intertie Constraint Shadow Prices	PRC_RTM_FLOWG ATE		Shadow price by Transmission Interface and
Posts the 5 minute constraint pricing at Transmission Interfaces and Intertie	ATE		Intertie Constraint
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.		REASON	Will indicate either "Base Case" or specific Contingency ID.
Scheduling Constraint Shadow Prices	PRC_RTM_SCH_C	SHADOW_PRC	Shadow price by Scheduling
Posts the 15 minute and 5 minute scheduling constraint shadow prices in \$/MWh	NSTR		Constraint
		CNSTR_TYPE	Some of the possible values are
			BAA TRANSFER UPPER LIMIT
			ETSR UPPER LIMIT
			ETSR LOWER LIMIT
			BAA TRANSFER LOWER LIMIT
			BAA TRANSFER UPPER LIMIT
			BAA TRANSFER DISTRIBUTION
			BAA POWER BALANCE
			BAA TRANSFER LOWER LIMIT
			ETSR TRANSMISSION COST
Reference Prices	PRC_DS_REF	SPLY_PRC	Supply Component
Quarterly Reference prices associated with each node based on historical data, posted for Convergence Bidding purposes.		DMD_PRC	Demand Component
Nodal Group Constraints		SHADOW_PRC	Shadow price by Nodal
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		CLEARED_MW MAXIMUM_LIMIT MINIMUM_LIMIT	Constraint Group Cleared Price Maximum Limit of the Price Minimum Limit of the Price
with the publication of the Day-Ahead results.	PRC_FLEX_RAMP	MKT_RUN_START_TIME	Indicates the start for a fit
System Ramping Nomogram Results	I NO_I LE/_I\AIWIF	INNE TON OF ANY THINK	Indicates the start time of the market run in pacific Time format

Report/ResultSet	XML Name	XML Data Items	Description
		MKT_TYPE	An identifier which specifies the market run type (DAM.RTPD& RTD)
		RAMP_UP_CAP_REQ	Upward raming capacity nomogram results
		RAMP_UP_SHADOW_PRC	Shadow price of the upward ramping nomogram results
		RAMP_DOWN_CAP_REQ	Downward ramping capacity nomogram results.
		RAMP_DOWN_SHADOW_P RC	Shadow price of the downward nomogram results.
		BAA_GRP_ID	EIM Area group ids (ISO, PACE, PACW, ISO_PACW, ISO_PACE, PACE_PACW,ISO_PACW_ PACE)
Contingency Dispatch Locational Marginal Prices	PRC_CD_INTVL_L MP	LMP_CONG_PRC	LMP Marginal Cost of Congestion for ten-minute Contingency Dispatch.
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 tenminute interval RTCD.		LMP_ENE_PRC	LMP Marginal Cost of Energy for ten-minute Contingency Dispatch.
		LMP_LOSS_PRC	LMP Marginal Cost of Losses for ten-minute Contingency Dispatch.



Report/ResultSet	XML Name	XML Data Items	Description
Contingency Dispatch Scheduling Point Tie	PRC_CD_SPTIE_L		LMP - Congestion
Combination Locational Marginal Prices	MP	LMP_PRC	Component; LMP for each node tie combination;
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.		LMP_ENE_PRC	LMP - Energy Component;
		LMP_LOSS_PRC	LMP - Losses Component
		LMP_GHG_PRIC	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	PRC_CD_RTM_FLO WGATE	SHADOW_PRC	Shadow price by Transmission Interface and Intertie Constraint for ten- minute Contingency Dispatch.
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.		REASON	Will indicate either "Base Case" or specific Contingency ID.
Contingency Dispatch Nomogram/Branch Shadow Prices	PRC_CD_RTM_NO MOGRAM	SHADOW_PRC	Shadow price by Nomogram or Branch for ten-minute Contingency Dispatch.
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.		REASON	Will indicate either "Base Case" or specific Contingency ID.
MPM DA Locational Marginal Prices (LMP):	PRC_MPM_LMP	LMP_PRC	LMP for each nodes
Hourly Locational Marginal Prices from the Day-Ahead MPM run for all PNodes and		LMP_CONG_CC_PRC	LMP - Competitive Congestion Component
APNodes in \$/MWh. Posts the LMP, plus the Competitive Congestion, Non-Competitive Congestion, Loss and Energy		LMP_CONG_NC_PRC	LMP- Non-Competitive Congestion Component
Components that make up the LMP.		LMP_ENE_PRC	LMP - Energy Component
		LMP_LOSS_PRC	LMP - Losses Component
MPM RT Locational Marginal Prices (LMP):	PRC_MPM_RTM_L	LMP PRC	LMP for each nodes
	MP	LMP_CONG_CC_PRC	LMP - Competitive Congestion Component

XML Name	XML Data Items	Description
	LMP_CONG_NC_PRC	LMP- Non-Competitive Congestion Component
	LMP_ENE_PRC	LMP - Energy Component
	LMP_LOSS_PRC	LMP - Losses Component
	LMP_GHG_PRC	LMP - GHG Component
PRC_MPM_ NOMOGRAM	SHADOW_PRC	Shadow price by Nomogram or Branch.
	<m:reason></m:reason>	Will indicate either "Base Case" or specific Contingency ID.
PRC_MPM_ RTM_NOMOGRAM	SHADOW_PRC	Shadow price by Nomogram or Branch.
	<m:reason></m:reason>	Will indicate either "Base Case" or specific Contingency ID.
PRC_MPM_ NOMOGRAM_CMP	MPM_CMP_STATUS_FLG	Competitive Path indicator (Y/N)
PRC_MPM_RTM_N OMOGRAM_CMP	MPM_CMP_STATUS_FLG	Competitive Path indicator (Y/N)
	PRC_MPM_ RTM_NOMOGRAM PRC_MPM_ RTM_NOMOGRAM PRC_MPM_ NOMOGRAM_CMP	LMP_CONG_NC_PRC LMP_ENE_PRC LMP_LOSS_PRC LMP_GHG_PRC PRC_MPM_ NOMOGRAM SHADOW_PRC <m:reason> PRC_MPM_ RTM_NOMOGRAM Am:REASON> PRC_MPM_ NOMOGRAM_CMP PRC_MPM_ NOMOGRAM_CMP MPM_CMP_STATUS_FLG PRC_MPM_RTM_N MPM_CMP_STATUS_FLG</m:reason>

Report/ResultSet	XML Name	XML Data Items	Description
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		XIIIL Data Iteliis	Description
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			
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):	PRC_MPM_CNSTR	SHADOW_PRC	Shadow price by Transmission Interface and Intertie Constraint
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		I REASON	Will indicate either "Base Case" or specific Contingency ID.
contingencies, and if caused by a Contingency, the identity of the specific Contingency. MPM Intertie Constraint Shadow Prices (RTM):	PRC_MPM_RTM_F	SHADOW_PRC	Shadow price by
Posts the hourly, the 4 15-minute interval	LOWGATE		Transmission Interface and Intertie Constraint
constraint pricing at Transmission Interfaces and Intertie Constraints, for HASP market MPM run in \$/MWh.		REASON	Will indicate either "Base Case" or specific
OR Posts every 15 minutes, the15-minute interval constraint pricing at Transmission Interfaces and Intertie Constraints, for RTPD market MPM run in \$/MWh		REAGON	Contingency ID.
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 Intertie Constraint Competitive Paths (DAM):	PRC_MPM_CNSTR _CMP	MPM_CMP_STATUS_FLG	Competitive Path indicator (Y/N)
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			

Report/ResultSet	XML Name	XML Data Items	Description
	AIVIL IVAIIIE	AWIL Data Items	Description
OR			
For RTD MPM run, posted every 5 minutes, the 5 minute interval results.			
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) :	PRC_MPM_ REF_BUS	REFERENCE_BUS_ID	Reference Bus Name
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.			
MPM Reference Bus (RTM):	PRC_MPM_RTM_R EF_BUS	REFERENCE_BUS_ID	Reference Bus Name
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.			
Greenhouse Gas Allowance Price	PRC_GHG_ALLOW ANCE	OPR_DATE	The operating date.
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	CINCL	GHG ALLOWANCE PRC	Greenhouse gas allowance price index value
EIM GHG Shadow Prices	PRC_EIM_GHG	INTERVAL_START_GMT INTERVAL_END_GMT	Interval Start time (GMT) Interval End time (GMT)
GHG shadow price of the net imbalance energy export	,	MKT_TYPE PRC_SHADOW	RTPD and RTD EIM GHG Shadow price
MPM Default Competitive Path Assessment List	PRC_MPM_DEFAU LT_CMP	DATA_ITEM OPR_DATE CONSTRAINT_GROUP_NAME COMPETIETIVE_FLAG	PRC_MPM_DEFAULT_CMP Opr Date Constraint Group Name Competitive Flag (Y or N)
Hourly RTM LAP prices	PRC RTM LAP	LMP CONG PRC	Hourly Real Time Market LAP Marginal Cost of Congestion (MCC) for Apnode
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Report/ResultSet	XML Name	XML Data Items	Description
The Hourly Real-Time LAP Price for each Custom and Default Load Aggregation Point (DLAP)		LMP ENE PRC	Hourly Real Time Market LAP System Marginal Energy Cost (SMEC) for Apnode
Hourly Real-Time LAP price includes Total (LMP), Energy (SMEC), Congestion (MCC) and Loss (MCL) price components.		LMP LOSS PRC	Hourly Real Time Market LAP Marginal Cost of Losses (MCL) for Apnode
Oasis will include separate XML file for each price component within the same zip file.		LMP_PRC	Hourly Real Time Market LAP total (LMP) Price for Apnode
		LMP GHG PRC	Hourly Real Time Market LAP LMP - GHG Component
TRANSMISSION			
Current Transmission Usage Consolidated report for Current transmission capacity and usage per Transmission Interface.	TRNS_CURR_USA GE	ATC_MW AS_IMPORT_MW	Current Hourly/15-min ATC; Current Hourly/15-min Tagged AS from Imports;
Starts with 7-days ahead and is updated continuously as outages occur. AS, Energy and ETC/TOR utilization values are		ENE_IMPORT_MW	Current Hourly/15-min Tagged Net Energy from Imports / Exports;
updated in conjunction with the publication of the DAM and RTM market results. Note: This API will updated to return only the		CBM_MW OTC_MW	Current Hourly/15-min CBM; Current Hourly/15-min OTC; This refers to the "Hourly TTC" value
current trade date and/or future trade date. It will return an error if used for historical trade date.		TTC_MW	Current Hourly/15-min TTC; This refers to the "Seasonal TTC" value
		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.

Day and/DaggeldCat	VMI Nome	VMI Data Kama	Description
Report/ResultSet	XML Name TRNS_USAGE	XML Data Items ATC_MW	Description DAM Hourly or HASP 15-
Transmission Interface Usage Consolidated report for transmission capacity,	TRIVO_OSAGE	ATO_MW	minute or RTPD 15-minute ATC;
usage, ETC/TOR utilization and schedules resulting from CAISO market operations for DAM,HASP or RTPD by Transmission Interface.		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
		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	SLD_FCST_PEAK	SYS_PEAK_MW	The forecast peak demand in MW for the Forecast Day.

Report/ResultSet	XML Name	XML Data Items	Description
Peak Demand Forecast per CAISO control area total. Posting begins at 7 days before Trading Day. Also posts Peak Demand Forecast by TAC Area.			
CAISO Demand Forecast			The forecast MW demand for
Daily posting for the 2-DA,7-DA hourly forecast, DAM hourly forecast by TAC area.	SLD_FCST	SYS_FCST_DA_MW	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
Advisory CAISO Demand Forecast	SLD_ADV_FCST	SYS_ADV_FCST_MW	The "first" advisory interval forecast MW demand for 15
RTPD 15-minute advisory Load Forecast is posted every 15 minutes.			or 5 minute intervals
RTM 5-Minute advisory Load Forecast is posted every five minutes.			
Wind and Solar Forecast	SLD_REN_FCST	RENEW_FCST_DA_MW RENEW_FCST_HASP_MW RENEW_FCST_ACT_MW RENEW_FCST_5MIN_MW RENEW_FCST_15MIN_MW	The forecast MW value for each hour of the Operating Day, posted in the morning the day before the each markets run
		TRADING_HUB	The trading hub name. Valid values are NP15,SP15,ZP26 and ALL

Report/ResultSet	XML Name	XML Data Items	Description
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		RENEWABLE_TYPE	Renewable Type include one of the following - "Wind" (Include: Wind PIRP & EIR resources). - "Solar" (Include: Solar PIRP & EIR resources).
Sufficiency Evaluation Demand Forecast	SLD_SF_EVAL_DM D_FCST	BAA_ID	Balancing Authority Area Identifier
Unbiased hourly and 15-minute load forecast. Provides a 7-day publication period data availability.		GRANULARITY	Corresponds to the HOURLY or 15MIN level forecast
		FCST_PUBLICATION_GMT	Timestamp on when the forecast is published for the upcoming horizon, GMT
		INTERVAL_START_GMT	Start time of the interval, GMT
		FCST_MW	Forecast in MW unit
ENERGY			
System Load and Resource Schedules Balanced System Load, Generation, Import	ENE_SLRS	ISO_TOT_GEN_MW	ISO Total MW cleared as Generation in DAM, RUC, HASP, RTM.
and Export per TAC Area, and for CAISO total. Posts results for DAM, RUC Capacity, HASP and 5-Minute RTM, as indicated below:		ISO_TOT_LOAD_MW	ISO Total MW cleared as Demand in DAM, HASP, RTM.
DAM Load, Generation, Import and Export Schedules per TAC Area and CAISO total for each Operating Hour, in MW.		ISO_TOT_IMP_MW	ISO Total MW cleared as imports in DAM, RUC, HASP, RTM.
RUC Capacity from Generation and Imports for each TAC Area and CAISO total for each Operating Hour, in MW		ISO_TOT_EXP_MW	ISO Total MW cleared as Exports in DAM, HASP, RTM.
		TOT_GEN_MW	
Hour-Ahead Scheduling Process (HASP) Import and Export per TAC Area and CAISO total, in MW.		TOT_LOAD_MW	Total MW cleared as Generation in DAM, RUC, HASP, RTM, by TAC Area.
5 minute RTM Generation, Import and Export per TAC Area and CAISO total, in MW.		TOT_IMP_MW	ISO Total MW cleared as Demand in DAM, HASP, RTM, by TAC Area.
		TOT_GEN_MW	ISO Total MW cleared as imports in DAM, RUC, HASP, RTM, by TAC Area.

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

D	VMI Name	VIII Data Kama	Barania di sa
Report/ResultSet	XML Name	XML Data Items RA_STRT_PRC	Description
		KA_STRT_FRC	RA Start-Up Cost
		RA_COMM_UNITS_CNT	RA Number of Units
		TOT_COMM_UNITS_CNT	Committed
		TOT_COMM_CAP_MW	Total Number of Units Committed
		100 707 0011/ 101/	Total Capacity Committed
Convergence Bidding Aggregate Awards	ENE_CB_AWARDS	ISO_TOT_SPLY_MW	Supply Component
Posts Day Ahead CAISO aggregate Virtual Bidding Awards for Energy for Supply & Demand Publishes with the Day Ahead Market results		ISO_TOT_DMD_MW	Demand Component
Net Cleared Convergence Bidding Awards	ENE_CB_CLR_AW	ENE_CB_CLR_MW	Cleared MW
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.	ARDS		
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 ner 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.	5 I		
Day Ahead Market Summary	ENE_CB_MKT_SUM	DMD_SLF_ENE_SUB_MW	Sum of demand self
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.			schedule energy bids submitted for all internal resources for a specific trade date in the day ahead market
Posts after the completion of the DAM Market publication.		DMD_SLF_ENE_CLR_MW	Sum of demand self schedule energy bids awarded (cleared) for all internal resources for a specific trade date in the day ahead market
		DMD 015 015 025	
	<u> </u>	DMD_SLF_CLR_CST	

Report/ResultSet	XML Name	XML Data Items	Description
		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
		J. 1. 1. 2. 3. 2. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	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_SUB_CST	
		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 VID ENE SLIB 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_ENE_SUB_MW	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_SUB_CST	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
		DMD_VIR_ENE_CLR_MW	calculation Sum of demand convergence bidding (virtual) energy bids awarded (cleared) for all internal resources for a specific trade
		DMD_VIR_CLR_CST	date in the day ahead market

Report/ResultSet	XML Name	XML Data Items	Description
		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.
		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.

Report/ResultSet	XML Name	XML Data Items	Description
Reportinesuitoet	AME Name	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	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_VIR_CLR_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_SUB_MW	

Report/ResultSet	XML Name	XML Data Items	Description
		SPLY_TOT_SUB_CST	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_ENE_CLR_MW	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.
		SPLY_TOT_CLR_CST	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_SUB_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_ENE_CLR_MW	Sum of Exports self schedule energy bids submitted for a specific trade date in the day ahead market N/A
		EXP_SLF_CLR_CST	Sum of Exports self schedule energy bids awarded (cleared) for a specific trade date in the day ahead market
		EXP_ENE_SUB_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_SUB_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

Report/ResultSet	XML Name	XML Data Items	Description
		EXP_ENE_CLR_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_ENE_CLR_CST	Sum of Exports economic energy bids awarded (cleared) for a specific trade date in the day ahead market
		EXP_VIR_ENE_SUB_MW	Sum of dollars associated with Exports economic energy bids awarded (cleared) for a specific trade date in the day ahead market
		EXP_VIR_SUB_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_VIR_ENE_CLR_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_VIR_CLR_CST	Sum of Exports convergence bidding (virtual) energy bids awarded (cleared) for a specific trade date in the day ahead market
		EXP_TOT_ENE_SUB_MW	Sum of dollars associated with Exports convergence bidding (virtual) energy bids awarded (cleared) for a specific trade date in the day ahead market
		EXP_TOT_SUB_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
		EXP_TOT_ENE_CLR_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
			economic energy bids submitted, Exports virtu bids submitted (and not for a specific trade date the day ahead market Sum of dollars associate with Exports self scheduenergy bids submitted, Exports economic energy bids submitted, Exports virtual bids submitted (a nodes) for a specific trade

Report/ResultSet	XML Name	XML Data Items	Description
		EXP_TOT_CLR_CST IMP_SLF_ENE_SUB_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_ENE_CLR_MW 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
			Sum of Imports self schedule energy bids submitted for a specific trade date in the day ahead market
		IMP_ENE_SUB_MW	Sum of Imports self schedule energy bids awarded (cleared) for a specific trade date in the day ahead market
		IMP_ENE_SUB_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_ENE_CLR_MW	
		IMP_ENE_CLR_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_SUB_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_SUB_CST	Sum of Imports physical energy bids awarded (cleared) for a specific trade date in the day ahead market

Report/ResultSet	XML Name	XML Data Items	Description
			Sum of dollars associated with Imports physical energy bids awarded (cleared) for a specific trade date in the day ahead market
		IMP_VIR_ENE_CLR_MW IMP_VIR_CLR_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_SUB_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_SUB_CST	Sum of Imports convergence bidding (virtual) energy bids awarded (cleared) for a specific trade date in the day ahead market
		IMP_TOT_ENE_CLR_MW	Sum of dollars associated with Imports convergence bidding (virtual) energy bids awarded (cleared) for a specific trade date in the day ahead market
		IMP_TOT_CLR_CST	Sum of Imports economic energy bids submitted, Imports virtual bids submitted (and nodes) for a specific trade date in the day ahead market
			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
Convergence Bidding Nodal MW Limits	CB_NODAL_LIF	MITS CB_NODAL_LIMITS	market Upper or lower limit (MW)

Report/ResultSet	XML Name	XML Data Items	Description
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.		PHYSICAL_TYPE	'Supply' or 'Demand'
Contingency Dispatch Resource Schedules Similar to the System Load and Resource	ENE_CD_SLRS	ISO_TOT_GEN_MW	ISO Total MW cleared as Generation for all 10-Minute Contingency Dispatch run.
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.		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_S CH	REPORT_DATE	The date when the data was published
Generator de-rates and outages which are considered in the Day-Ahead Market. Report is		OUTAGE_DATE	Outage date
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		OUTAGE_HOUR	Outage hour
capacity reduction amount by trading hub (NP15, ZP26, and SP15) and resource type		FUEL_CATEGORY	Fuel Category
(thermal, hydro, renewable).		TRADING_HUB	Trading Hub name
		OUTAGE_MW	Outage MW
EIM Transfer Limits	ENE_EIM_TRANSF	MKT_TYPE	RTPD and RTD
	ER_LIMITS	INTERVAL_START_GMT	Interval Start time (GMT)
		INTERVAL_END_GMT	Interval End time (GMT)



Report/ResultSet	XML Name	XML Data Items	Description
After each RTPD and RTD market run is		BAA_GRP_ID	EIM BAA Group ID
completed, OASIS will post the NSI low/high limits per each EIM BAA group that are used in		LIMIT_TYPE	HIGH or LOW
the market		EIM_XFER_ MW	EIM Transfer MW
			Livi Transfer Wiv
EIM Transfer	ENE_EIM_TRANSF	INTERVAL_START_GMT	Interval Start time (GMT)
EIM BAA Net Imbalance energy export	ER	INTERVAL_END_GMT MKT TYPE	Interval End time (GMT) RTPD and RTD
(transfer) will be posted to OASIS for every		BAA_GRP_ID	EIM BAA Group (PACW,
RTD and RTPD market			PACE, ISO, PACW_PACE, etc.)
		EIM_XFER_MW	EIM Transfer MW
EIM BAA Dynamic NSI		INTERVAL_START_GMT	Interval Start time (GMT)
Dynamic Net Schedule Interchange for each		INTERVAL_END_GMT BAA_ID	Interval End time (GMT) One of more EIM BAA ID
BAA will be posted to OASIS for every RTD and RTPD market		MKT_TYPE EIM DYN NSI MW	RTPD and RTD EIM BAA Dynamic NSI MW
and KIFD market		LIM_DTN_NSI_WW	LIM BAA DYNAMIC NOI WW
EIM BAA Base NSI	ENE_BASE_NSI	INTERVAL_START_GMT	Interval Start time (GMT)
DAM and RTM base NSI for each EIM BAA.		INTERVAL_END_GMT SNAPSHOT_INDICATOR	Interval End time (GMT) Base schedule snapshot
All data shall be from the latest DAM and the			indicator (T75MIN, T55MIN,
first RTPD 15-minute market within the hour.		BAA_ID	T40MIN, DA) One of more EIM BAA ID
		MKT_TYPE BASE_NSI_ MW	DAM and RTPD EIM Base NSI MW
ENA DAA U. L. D. NO.			
EIM BAA Hourly Base NSI	ENE_HRLY_BASE_ NSI	INTERVAL_START_GMT INTERVAL_END_GMT	Interval Start time (GMT) Interval End time (GMT)
DAM and RTM hourly base NSI for each EIM BAA.		SNAPSHOT_INDICATOR	Base schedule snapshot indicator (T75MIN, T55MIN,
7.0.0			T40MIN, DA)
		BAA_ID MKT_TYPE	One of more EIM BAA ID DAM and RTM
		HRLY_BASE_NSI_MW	EIM Hourly Base NSI MW
EIM BAA Hourly Base Loss		INTERVAL_START_GMT	Interval Start time (GMT)
DAM and RTM hourly base loss for each EIM	LOSS	INTERVAL_END_GMT SNAPSHOT_INDICATOR	Interval End time (GMT) Base schedule snapshot
BAA.			indicator (T75MIN, T55MIN, T40MIN, DA)
		BAA_ID	One of more EIM BAA ID
		MKT_TYPE HRLY_BASE_LOSS_MW	DAM and RTM EIM Hourly Base Loss MW
Uncertainty Movement by Category	ENE_UNCERTAINT		BAA Group ID
, , , , , , , , , , , , , , , , , , , ,	Y_MV	MKT_TYPE	Market type. Only applicable
		V	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

Report/ResultSet	XML Name	XML Data Items	Description																
		UNCERTAINTY_MV_MW	MW value																
Flexible Ramp Requirements	ENE_FLEX_RAMP_ REQT	BAA_GRP_ID MKT_TYPE	BAA ID Market type. Before Fall 2016 release, only RTPD market applies. Beginning																
		INTERVAL_START_GMT	Fall 2016 release market type will be RTPD, RTD. 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																
Flex Ramp Aggregated Awards	ENE_AGGR_FLEX_	UNCERTAINTY_MW BAA_GRP_ID	MW value BAA Group ID																
	RAMP	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)																
		RAMP_TYPE	Ramp Type (UP or DOWN)																
		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
		SEGMENT_PRC	Price																
EIM Transfer By Tie	ENE_EIM_TRANSF ER_TIE	EIM_XFER_MW	Energy Imbalance Market (EIM) MW Transfer over the tie from one EIM BAA entity to the other EIM BAA entity.																
		BAA_GRP_ID	Balancing Authority Area Group Identifier																
		INTERVAL_START_GMT	Interval Start time (GMT)																
		INTERVAL_END_GMT	Interval End time (GMT)																
		TIE_NAME	Tie in which the transfer occurs																
		DIRECTION	Import or Export																

Report/ResultSet	XML Name	XML Data Items	Description
		FROM_BAA	EIM Transfer from the originating EIM BAA entity
		TO_BAA	EIM Transfer to the destination EIM BAA entity
EIM Transfer Limits By Tie	ENE_EIM_TRANSF ER_LIMITS_TIE	DATA_ITEM	EIM_XFER_LIMITS_TI E_MW
		VALUE	Energy Imbalance Market (EIM) MW Transfer Limit over the tie from one EIM BAA entity to the other EIM BAA entity.
		OPR_DATE INTERVAL_NUM	Opr Date Interval Number
		BAA_GRP_ID	Balancing Authority Area Group Identifier
		INTERVAL_START_GMT	Interval Start time (GMT)
		INTERVAL_END_GMT	Interval End time (GMT)
		TIE_NAME	Tie in which the transfer occurs
		DIRECTION	Import or Export
		FROM_BAA	EIM Transfer from the originating EIM BAA entity
		TO_BAA	EIM Transfer to the destination EIM BAA entity
Wind And Solar Summary	ENE_WIND_SOLAR _SUMMARY	OPR_DATE DATA_ITEM	Ope Date Summary Data Item((DAM_SCHEDULE,DAM_NET_VI RTUAL,DAM_FORECAST,RTM_S
		INTERVAL_START_GMT	CHEDULE) Interval Start Time in GMT
		INTERVAL_END_GMT VALUE	Interval End Time in GMT MW Value
Flexible Ramp Requirements Input	ENE_EIM_FLEX_R AMP_INPUT	INTERVAL_START_GMT INTERVAL_END_GMT	Interval Start time (GMT) Interval End time (GMT)
		SNAPSHOT_INDICATOR	Base schedule snapshot indicator (T75MIN, T55MIN, T40MIN, DA)
		BAA ID	One or more EIM BAA ID
		MKT_TYPE	DAM and RTM
		CHANGE IN LOAD DEMAN D	Change in load demand
		UC_COMPONENT	Uncertainty component
		DIVERSITY BENEFIT UC	Diversity benefit scaled uncertainty component.



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

Day and Day and Oad	VMI Name	VAIL Data Kana	December (1 cm
Report/ResultSet	XML Name	XML Data Items NS_SPROC_MW	Description
		INO_OPROU_INIVV	The MW of capacity
			procured from the AS market
		NS_TOT_MW	bids for Spin.
			The MW of capacity self-
		00 0000 1111	provided by market
		SP_PROC_MW	participants Total MW of capacity
			obtained
		SP_SPROC_MW	obtainod .
			The MW of capacity
		SP_TOT_MW	procured from the AS market
			bids for RegulationUp. The MW of capacity self-
			provided by market
		RU_PROC_MW	participants.
			Total MW of capacity
			obtained.
		DLL CDDOC MAN	
		RU_SPROC_MW	The MW of capacity
			procured from the AS market
		RU TOT MW	bids for RegulationDown.
			The MW of capacity self-
			provided by market
			participants.
		RD_PROC_MW	Total MW of capacity
			obtained
		RD_SPROC_MW	
		DD TOT MIM	
		RD_TOT_MW	
		RMD_PROC_MW	The MW of capacity
		KWD_I KOC_WW	procured from the AS market
			bids for Regulation Mileage
			Down
		RMD_SPROC_MW	The MW of capacity self-
			provided by market
			participants for Regulation
			Mileage Down
		RMD_TOT_CST_PRC	The Tatal Bases
			The Total line cost across AS Region for Regulation
			Mileage Down
			79
		RMD_TOT_MW	
		ICIVID_101_IVIVV	Total MW of capacity
			obtained for Requiation Mileage Up
		RMU_PROC_MW	ivilleage op
			The MW of capacity
			procured from the AS market
		DMIL CDDOC MAY	bids for Regulation Mileage
		RMU_SPROC_MW	Up
			The MW of capacity self-
			provided by market
			participants for Regulation
		RMU_TOT_CST_PRC	Mileage Up
		<u>l</u>	

Report/ResultSet	XML Name	XML Data Items	Description
Reportinesunder	AME Name	RMU_TOT_MW	The Total line cost across AS Region for Regulation Mileage Up
			Total MW of capacity obtained for Requlation Mileage Up
Actual Operating Reserves	AS_OP_RSRV	OP_RSRV_ACT_PCT	Total Actual Operating
Total Actual Load, AS, and Operating Reserves maintained during delivery.			Reserves maintained during delivery.
Mileage Calculation Components	AS_MILEAGE_CAL C	RMD_AVG_MIL	Average Instructed Mileage for regulation mileage down
Lists system performance accuracy, average Instructed Mileage (MW), and system Mileage multiplier data from the prior seven days for each hour of		RMD_SYS_MIL_MUL	System Mileage Multiplier for regulation mileage down
a trading day.		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	CRR_CLEARING	ON_PRC LT_OFF_PRC	On-peak Price Off-peak Price
Congestion Revenue Rights Auction Clearing Prices by Pnode for CRR segments.		Note: These the XML tags for corresponding data items	
		CRR_MARKET_NAME	CRR MARKET NAME
		RESOURCE_NAME	APNODE ID
		START_DATE_TIME	START DATE
		END_DATE_TIME	End DATE
		REASON	MARKET TERM
CRR Inventory Congestion Revenue Rights Daily Inventory.	CRR_INVENTORY	ON_MW OFF_MW	On-peak capacity Off-peak capacity
		Note: These are the XML tags for corresponding data items CRR_MARKET_NAME SOURCE SINK RESOURCE_NAME OPTION INVENTORY_DATE_TIME START_DATE_TIME	CRR MARKET NAME Source APNODE Sink APNODE OWNER NAME CRR OPTION INVENTORY DATE START DATE



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Report/ResultSet	XML Name	XML Data Items	Description END DATE
		END_DATE_TIME REASON	MARKET TERM
		STATUS TYPE	CRR Type
		CRR_CATEGORY	CRR CATEGORY
		CRR_NSR	NSR INDEX
		CRR_SEGMENT	SEGMENT ID
PUBLIC BIDS			
Public Bids Clean Bid payloads used as the input in the	PUB_BID	Note: Below structure is common for –GENERATION, LOAD, and INTERTIE.	
markets, with certain fields replaced by pseudo data as indicated. Posted for DAM and RTM.		STARTTIME STOPTIME	Start time of bid End time of bid
Posted at T+90. The Public Bid Data is downloadable to XML and CSV only, for a single day at a time.		REGISTEREDGENERATOR	Pseudo ID of Resource
Data is available for downloading at midnight on the 90 th day after the trading day.		SCHEDULINGCOORDINATO	Pseudo ID of SC_ID
The Publications and Revisions log will not		R	Description of product
create records for the Public Bid data when it is becomes available for downloading on T+90.		PRODUCTBID DESCRIPTION	
		MRID	All the possible types like EN, LFD, LFU, NR,
		MARKETPRODUCT DESCRIPTION	RC,RD,RU,SR,RMD, RMU and GHG
		MARKETPRODUCTTYPE	Selfscheduled bid start and end time with the MW.
		BIDSELFSCHED TIMEINTERVALSTART TIMEINTERVALEND SELFSCHEDMW	Bid Schedule with start and end time
		BIDSCHEDULE TIMEINTERVALSTART TIMEINTERVALEND BIDPRICECURVE MRID	Curve details contains X and Y1 & Y2 axis data.
		CURVESCHEDDATA XAXISDATA Y1AXISDATA Y2AXISDATA	Xaxis= optional element Y1axis = optional element Y2 axis = Opportunity Cost; optional element
CB Public Bids	PUB_CB_BID	STARTTIME	Start time of Virtual bid
Convergence Bidding Clean Bid payloads used as the input in the markets, with certain fields		STOPTIME	End time of Virtual bid
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 90 th day after the trading day.		AggregatedPnode IndividualPnode VirtualBidType SCHEDULINGCOORDINATO R	Pseudo ID of Apnode Pseudo ID of Pnode Supply/Demand Bid Pseudo ID of SC_ID Bid Schedule with start and end time
		ENERGYPRODUCTBID BIDSCHEDULE TIMEINTERVALSTART TIMEINTERVALEND BIDPRICECURVE	Curve details contains X and Y axis data.
		CURVESCHEDDATA XAXISDATA	



Report/ResultSet	XML Name	XML Data Items	Description
		Y1AXISDATA	2-00111011
Congestion Revenue Rights (CRR) Public Bids	PUB_CRR_BID	STARTTIME	Effective Start Date of the CRR
Bids submitted and used in the CRR auction markets, with certain fields replaced by pseudo data as indicated. Posted for the monthly		STOPTIME	Effective End Date of the CRR
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
single market at a time.		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.
Competitive Solicitation Process Offer Set	PUB_CSP_OFFER_ SET	OFFERPERIODSTARTTIME	Start time of the CSP offer period (GMT).
Finalized offers into the competitive solicitation process for Annual, monthly and intra-monthly		<u>OFFERPERIODENDTIME</u>	End time of the CSP offer period (GMT).
offer period. This data will be posted on a rolling five-quarter delay.		RESOURCEADEQUACYPER IODTYPE	Resouce Adequacy Period type is one of the following enumerated value
			ANNUAL MONTHLY INTRAMONTHLY
		<u>STARTIME</u>	Start time of the CSP offer (GMT).
		<u>ENDTIME</u>	End time of the CSP offer (GMT).
		<u>SCHEDULETYPE</u>	Schedule type is one of the following enumerated value
			FLEXIBLE GENERIC

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Report/ResultSet	XML Name	XML Data Items	Description
		REGISTEREDRESOURCE	Pseudo ID of Resource
		SCHEDULINGCOORDINATO R	Pseudo ID of SC ID
		<u>GENERATIONTYPE</u>	Generation Technology Type is one of the following value
			WIND SOLAR HYDRO AGGR_OTHER
		FLEXIBLECATEGORY	Flexlible Category of the resource. This can be 1, 2 or 3. This value will be populated only for the scheduletype 'FLEXIBLE'
			1 - Base Ramping Flexibility 2 - Peak Ramping Flexibility 3- Super Ramping Flexibility
			The required hours for the Peak Ramping and Super-Peak Ramping categories change on a seasonal basis.
		<u>AREA</u>	TAC Area
		BIDPRICECURVE	BidPriceCurve data contains contains X and Y axis data.
		<u>XAXISDATA</u>	The value on x-axis is MW
		Y1AXISDATA	The value on y-axis is price (\$).
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.

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des to each APNodes in odes to each APNode. Ides to each Commitment odes to each APNodes Charge
b APNodes in odes to each APNode. odes to each ces Region. odes to each commitment odes to each Access Charge
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Report/ResultSet	XML Name	XML Data Items	Description
		END_DATE	Effective Start Date of the Tie Effective End Date of the Tie
Scheduling Point and Tie Definition	ATL_SP_TIE	TIE_NAME	Name of the Tie
		SCHEDULING_POINT	Scheduling Point Name
		START_DATE END_DATE	Effective Start Date Effective End Date
Intertie Constraint and Scheduling Point Mapping	ATL_ITC_SP	TIEPOINT_NAME	Name of the Constraint Group
IMAPPING		SCHEDULING_POINT	Name of the Schedule Point
		START_DATE	
			Effective Start Date of the Constraint and Schedule
			Point Mapping
		END_DATE	Effective End Date
Intertie Scheduling Limit and Tie Mapping	ATL_ISL_TIE	TIE_NAME ITIE_SCHEDULING_LIMIT	Name of the Tie Name of the Itie Schedule Limit
		START_DATE	Effective Start Date of the Schedule Limit and Tie Mapping
		END_DATE	Effective End Date of the Schedule Limit and Tie Mapping

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:
	 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. 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 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

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

OF

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

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

NOTE:

- 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
- 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

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_APNODESOR

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

http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_HASP_LMP&startdatetime=20130919T07:00-0000&enddatetime=20130919T08:00-0000&version=3&market_run_id=HASP&grp_type=ALL_APNODESOR

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

NOTE:

- 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_APNODESOR 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_APNODESOR 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 http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_RTPD_LMP&startdatetime=20130919T07:00-0000&enddatetime=20130919T08:00-0000&version=3&market_run_id=RTPD&grp_type=ALL_APNODESOR http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_RTPD_LMP&startdatetime=20130919T07:00-0000&enddatetime=20130919T08:00-0000&version=3&market_run_id=RTPD&grp_type=ALL_APNODESOR http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_RTPD_LMP&startdatetime=20130919T07:00-0000&enddatetime=20130919T08:00-0000&version=3&market_run_id=RTPD&node=LAPLMG1_7_B2 NOTE:
	 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. The "enddatetime" is ignored if the query is to pull "ALL" or "ALL_APNODES" nodes; ie query will return only 1-hour's worth of data for all nodes at a time based on the "startdatetime" supplied The "enddatetime" is referenced only when a node is supplied in the query 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=201309 19T07:00-0000&enddatetime=20130920T07:00-0000&version=1&anc_type=ALL&anc_region=ALL
PRC_INTVL_AS	Note: For HASP replace, 'DAM' with 'HASP'. 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&startda tetime=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=20130 919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
PRC_CURR_LMP	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_CURR_LMP&node=ALL&startdatetime=2013091 9T07:00-0000&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=20130920T07:00-0000&version=1
PRC_RTM_NOMO GRAM	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



	T
PRC_RTM_FLOWG ATE	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 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=20130 919T07:00-0000&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 http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_FLEX_RAMP&market_run_id=RTPD&startdateti
PRC_FLEX_RAMP_	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_FLEX_RAMP&market_run_id=RTPD&startdateti_me=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&startdatetim_e=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&startdatetim_processed_name_proce
	etime=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_L	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_CD_INTVL_LMP&startdatetime=20130919T07:00
MP	-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_L MP	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
IVIF	OR
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_CD_SPTIE_LMP&startdatetime=20130919T07:0
	0-0000&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=20160919T07:0
	0-0000&enddatetime=20160920T07:00-0000&version=4&market_run_id=RTM&node=LAPLMG1_7_B2
PRC_CD_RTM_FL	http://oasis.caiso.com/oasisapi/SingleZip?gueryname=PRC_CD_RTM_FLOWGATE&market_run_id=RTM&ti_
OWGATE	id=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
PRC CD RTM NO	http://oasis.caiso.com/oasisapi/SingleZip?gueryname=PRC CD RTM NOMOGRAM&market run id=RTM&n
MOGRAM	omogram_id=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
TRANSMISSION	V
TRNS CLIRR LISA	http://oasis.caiso.com/oasisapi/SingleZip?queryname=TRNS_CURR_USAGE&ti_id=ALL&ti_direction=ALL&st
GE	artdatetime=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_OTC, TRNS_RATING_TRM, TRNS_RATING_TRM_FTO, TRNS_RATING_TRM_SFI, TRNS_RATING_TRM_UF, TRNS_RATING_TTC, TRNS_TR_USEAGE, RATING_ATC
	Note: API will accept maximum of 10 ti id's otherwise system will throw error 1017 (Please select a maximum
	of 10 nodes or use the ALL option.)
TRNS_ATC	http://oasis.caiso.com/oasisapi/SingleZip?queryname=TRNS_ATC&market_run_id=DAM&ti_id=ALL&ti_directi
	on=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_direct
TDNIG GUITAGE	ion=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&startdat etime=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_dir_
TRNO_OSAGE	ection=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_di
	rection=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_dir
	ection=ALL&tr_type=TRNS_AS_IMPORT_IFM&startdatetime=20130919T07:00-
	0000&enddatetime=20130920T07:00-0000&version=1
	List of available "to tame". TDNC AC IMPORT IEM TDNC ENE IMPORT IEM TDNC DATING COM
	List of available "tr_type": TRNS_AS_IMPORT_IFM, TRNS_ENE_IMPORT_IFM, TRNS_RATING_CBM, TRNS_RATING_CONSTRAINT, TRNS_RATING_MTC,
<u> </u>	mais_amac_concretain; mac_mino_mio;



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=DA M&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=DA_M&node=3EMIDIO_6_N001&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
	NOTE:
	 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.
	 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
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_ LMP&market_run_id=HASP&node=3EMIDIO_6_N001&startdatetime=20 130919T07:00-0000&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=20

	 NOTE: 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. 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 The "enddatetime" is referenced only when a node is supplied in the query Only new version (version=2) introduced as part of Fall 2014 release will include new element LMP_GHG_PRC.
PRC_MPM_ NOMOGRAM	
FRC_IVIFIVI_ NOIVIOGRAIVI	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_NOMOGRAM&market_r un_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
PRC_MPM_NOMOGRAM_CMP	
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_NOMOGRAM_CMP&ma_rket_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_CM_P&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_CM_P&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_CM_P&market_run_id=RTD&startdatetime=20170213T08:00-0000&enddatetime=20170214T08:00-0000&version=1
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
PRC_MPM_CNSTR_CMP	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_CNSTR_CMP&market_r_un_id=DAM&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-
	0000&version=1 http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_CNSTR_CMP&market_r_un_id=HASP&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1 http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_CNSTR_CMP&market_r_r_r_r_r_r_r_r_r_r_r_r_r_r_r_r_r_r_r
	un_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=20170213T08:00-0000&enddatetime=20170214T08:00-0000&version=1
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
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_REF_BUS&market_run_id=RTD&startdatetime=20170213T08:00-0000&enddatetime=20170214T08:00-0000&version=1
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
	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

0000&version=3&market_run_id=RTD&node=LAPLMG1_7_B2

OR

http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_SPTIE_LMP&startdatetime=20_160919T07:00-0000&enddatetime=20160919T08:00-0000&version=4&market_run_id=RTD&node=LAPLMG1_7_B2

OR

0000&version=5&market_run_id=DAM&grp_type=ALL_APNODES

OR

http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_SPTIE_LMP&startdatetime=20 160919T07:00-0000&enddatetime=20160920T07:00-0000&version=5&market_run_id=DAM&node=LAPLMG1_7_B2

OR

http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_SPTIE_LMP&startdatetime=20 160919T07:00-0000&enddatetime=20160919T08:00-0000&version=5&market_run_id=RTPD&grp_type=ALL_APNODES

OR

http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_SPTIE_LMP&startdatetime=20 130919T07:00-0000&enddatetime=20130919T08:00-0000&version=5&market_run_id=RTPD&node=LAPLMG1_7_B2

OR

http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_SPTIE_LMP&startdatetime=20 160919T07:00-0000&enddatetime=20160919T08:00-0000&version=5&market_run_id=RTD&grp_type=ALL_APNODES

OR

http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_SPTIE_LMP&startdatetime=20 160919T07:00-0000&enddatetime=20160919T08:00-0000&version=5&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
PRC_MPM_DEFAULT_CMP	http://oasis.caiso.com/oasisapi/SingleZip?queryname= PRC_MPM_DEFAULT_CMP&market_run_id=DAM &startdatetime=20160919T07:00-0000&enddatetime=20160920T07:00-0000&version=5
	http://oasis.caiso.com/oasisapi/SingleZip?queryname= PRC_MPM_DEFAULT_CMP&market_run_id=RTM &startdatetime=20160919T07:00-0000&enddatetime=20160920T07:00-0000&version=5
PRC_RTM_LAP	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_RTM_LAP&startdatetime=2017
	<u>OR</u>
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_RTM_LAP&startdatetime=2017
SYSTEM DEMAND	
SLD_FCST_PEAK	http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_FCST_PEAK&startdatetime=20 130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
SLD_FCST	http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_FCST&market_run_id=DAM&st artdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_FCST&market_run_id=2DA&sta_rtdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_FCST&market_run_id=7DA&sta_rtdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_FCST&market_run_id=RTM&ex ecution_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&ex ecution_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=D_AM&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_REN_FCST&market_run_id=RT_PD&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_REN_FCST&market_run_id=RT_D&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=RT PD&startdatetime=20160419T07:00-0000&enddatetime=20160420T07:00-0000&version=4
	OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_ADV_FCST&market_run_id=RT_D&startdatetime=20160419T07:00-0000&enddatetime=20160420T07:00-0000&version=4
SLD_SF_EVAL_DMD_FCST	http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_SF_EVAL_DMD_FCST&granularity=HOURLY&startdatetime=20160419T07:00-0000&enddatetime=20160420T07:00-0000&version=4
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_SF_EVAL_DMD_FCST&granularity=15MIN&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_t ype=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&st_artdatetime=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&ex_ecution_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&ba a_id=ALL&startdatetime=20141001T07:00-0000&enddatetime=20141002T07:00- 0000&version=2 OR
L	

	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_MPM&market_run_id=RTM&ex
	ecution_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&ex
	ecution_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=24
CAMAT, DAAD	http://opeic.going.gon/opeicgni/Cit.pl=7i-2-mannages_CAAAT_DAAD@dat_man_id_DAAA@
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=20130919
	T07:00-0000&enddatetime=20130920T07:00-0000&version=1
ENE_LOSS	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_LOSS&market_run_id=DAM&st
	<u>artdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1</u>
CMMT_RA_MLC	http://oasis.caiso.com/oasisapi/SingleZip?queryname=CMMT_RA_MLC&market_run_id=DA
	M&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
ENE_CB_AWARDS	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_CB_AWARDS&startdatetime=2 0130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
ENE_CB_CLR_AWARDS	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_CB_CLR_AWARDS&startdateti
	me=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=RNC_HSECO_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=RT_M&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_categor
	y=Renewable&trading hub=NP15&startdatetime=20130919T07:00-
	0000&enddatetime=20130920T07:00-0000&version=1
ENE_EIM_TRANSFER_LIMITS	http://oasis.caiso.com/oasisapi/SingleZip?quervname=ENE_EIM_TRANSFER_LIMITS&mar
	ket 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&mar
	ket 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&mar
	ket run id=ALL&baa grp_id=ALL&startdatetime=20141001T07:00-
	0000&enddatetime=20141002T07:00-0000&version=2
	0000001100011000107.00 0000000131011=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
1	1



	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://eggis.coice.com/eggiscoi/Single-7in2guen/nemo_ENE_EIM_DVNI_NISI8_market_run_id
ENE_EIW_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=RT
	PD&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=RT
	D&baa_id=ALL&snapshot_indicator=T75MIN&startdatetime=20141001T07:00-
	0000&enddatetime=20141002T07:00-0000&version=2
	propert indicator. TZEMINI TERMINI TAOMINI DA
ENE_HRLY_BASE_NSI	snapshot_indicator = T75MIN, T55MIN, T40MIN, DA
LIVE_INCT_BAGE_NOT	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_HRLY_BASE_NSI &market_run_id=DAM&baa_id=ALL&snapshot_indicator=ALL&startdatetime=201
	61001T07:00-0000&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_HRLY_BASE_LOSS	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_HRLY_BASE_LO
	SS&market_run_id=DAM&baa_id=ALL&snapshot_indicator=ALL&startdatetime=2
	0161001T07:00-0000&enddatetime=20161002T07:00-0000&version=4
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_HRLY_BASE_LOSS&market_r
	un 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_r un_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_r un_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_r un_id=RTPD&baa_grp_id=ALL&startdatetime=20160401T07:00- 0000&enddatetime=20160402T07:00-0000&version=4		
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_FLEX_RAMP_REQT&market_r un_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=RTPD&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		
ENE_EIM_TRANSFER_TIE	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_EIM_TRANSFER_TIE&market run_id=RTD&baa_grp_id=ALL&startdatetime=20161001T07:00- 0000&enddatetime=20161002T07:00-0000&version=4		
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_EIM_TRANSFER_TIE&market_run_id=RTPD&baa_grp_id=ALL&startdatetime=20161001T07:00-0000&enddatetime=20161002T07:00-0000&version=4		
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_EIM_TRANSFER_TIE&market_run_id=ALL&baa_grp_id=ALL&startdatetime=20141001T07:00-0000&enddatetime=20161002T07:00-0000&version=4		
ENE_EIM_TRANSFER_LIMITS_TIE	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_EIM_TRANSFER_LIMITS_TIE &market_run_id=RTD&baa_grp_id=ALL&startdatetime=20161001T07:00- 0000&enddatetime=20161002T07:00-0000&version=5		
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_EIM_TRANSFER_LIMITS_TIE &market_run_id=RTPD&baa_grp_id=ALL&startdatetime=20161001T07:00- 0000&enddatetime=20161002T07:00-0000&version=5		

ENE_WIND_SOLAR_SUMMARY	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_WIND_SOLAR_ SUMMARY &startdatetime=20161001T07:00- 0000&enddatetime=20161002T07:00-0000&version=5		
ENE_FLEX_RAMP_INPUT	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_FLEX_RAMP_INPUT&market_run_id=RTM&baa_grp_id=ALL&snapshot_indicator=ALL&startdatetime=20161001T07:00-0000&enddatetime=20171002T07:00-0000&version=6 Snapshot_indicator = T75MIN, T55MIN, T40MIN, DA		
	Stage of the stage		
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_http://oasis.caiso.com/oasisapi/SingleZip?queryname=AS_REQ&market_run_id=RTM&anc_http://oasis.caiso.com/oasisapi/SingleZip?queryname=AS_REQ&market_run_id=RTM&anc_http://oasis.caiso.com/oasisapi/SingleZip?queryname=AS_REQ&market_run_id=RTM&anc_http://oasis.caiso.com/oasisapi/SingleZip?queryname=AS_REQ&market_run_id=RTM&anc_http://oasis.caiso.com/oasisapi/SingleZip?queryname=AS_REQ&market_run_id=RTM&anc_http://oasis.caiso.com/oasisapi/SingleZip?queryname=AS_REQ&market_run_id=RTM&anc_http://oasis.caiso.com/oasisapi/SingleZip?queryname=AS_REQ&market_run_id=RTM&anc_http://oasis.caiso.com/oasisapi/SingleZip?queryname=AS_REQ&market_run_id=RTM&anc_http://oasis.caiso.com/oasisapi/SingleZip?queryname=AS_REQ&market_run_id=RTM&anc_http://oasis.caiso.com/oasisapi/SingleZip?queryname=AS_REQ&market_run_id=RTM&anc_http://oasis.caiso.com/oasisapi/SingleZip?queryname=AS_REQ&market_run_id=RTM&anc_http://oasis.caiso.com/oasisapi/SingleZip?queryname=AS_REQ&market_run_id=RTM&anc_http://oasis.caiso.com/oasisapi/SingleZip?queryname=AS_REQ&market_run_id=RTM&anc_http://oasis.caiso.com/oasisapi/SingleZip?queryname=AS_REQ&market_run_id=RTM&anc_http://oasis.caiso.com/oasisapi/SingleZip?queryname=AS_REQ&market_run_id=RTM&anc_http://oasis.caiso.com/oasisapi/SingleZip?queryname=AS_REQ&market_run_id=RTM&anc_http://oasis.caiso.com/oasisapi/SingleZip?queryname=AS_REQ&market_run_id=RTM&anc_http://oasis.caiso.com/oasisapi/SingleZip?queryname=AS_REQ&market_run_id=RTM&anc_http://oasis.caiso.com/oasisapi/SingleZip?queryname=AS_REQ&market_run_id=RTM&anc_http://oasis.caiso.com/oasisapi/SingleZip?queryname=A		
	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=HAS_P&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=20130 919T07:00-0000&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=AL L&market_term=ALL&time_of_use=ALL&startdatetime=20130919T07:00- 0000&enddatetime=20130920T07:00-0000&version=1		
CRR_INVENTORY	http://oasis.caiso.com/oasisapi/SingleZip?queryname=CRR_INVENTORY&market_name=A LLOC_AN_2013_S03_TR&market_term=ALL&time_of_use=ALL&startdatetime=20130924T 07:00-0000&enddatetime=20130925T07:00-0000&version=1		
PUBLICBIDS			
PUB_BID	http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_RTM_GRP&startdatetime=2013091 9T07:00-0000&version=1 (for RTM)		
	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=201309 19T07:00-0000&version=1 (for DAM)
PUB_CB_BID	http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_CB_DAM_GRP&startdatetime=201 30919T07:00-0000&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&start_datetime=20130919T07:00-0000&version=1
	http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_CRR_BID_MONTHLY_GRP&startd atetime=20130919T07:00-0000&version=1
CSP_OFFER_SET	http://oasis.caiso.com/oasisapi/GroupZip?groupid=CSP_OFFER_SET_ANNUAL_GRP&startdatetime=20170101T08:00-0000&version=1
	http://oasis.caiso.com/oasisapi/GroupZip?groupid=CSP_OFFER_SET_MONTHLY_GRP&st artdatetime=20170102T08:00-0000&version=1
	http://oasis.caiso.com/oasisapi/GroupZip?groupid=CSP_OFFER_SET_INTRAMONTHLY_G RP&startdatetime=20170110T08:00-0000&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_P L3N5_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&startd atetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
ATL_RESOURCE	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_RESOURCE&resource_id=8MIL <u>E_2_V200LD&agge_type=ALL&resource_type=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1</u>
ATL_HUB	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_HUB&startdatetime=20130919T 07:00-0000&enddatetime=20130920T07:00-0000&version=1
ATL_PNODE_MAP	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_PNODE_MAP&pnode_id=KEAR NY_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&startdatetim e=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1			
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_Tl&Ti_type=ALL&wecc_path=A LL&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&st artdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=2			
ATL_PRC_CORR_MSG	00000 VOISION-2			
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_PRC_CORR_MSG&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=3			
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_PRC_CORR_MSG&market_run_id=DAM&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=3			
	Note: market_run_id are DAM, RTD, RTPD, RUC			
ATL_SP	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_SP&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=3			
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_SP&BAA_ID=CISO&startdatetime=20130919T07:00-0000&version=3			
ATL_BAA_TIE	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_BAA_TIE&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=3			
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_BAA_TIE&FR OM_BAA_ID=AZPS&TO_BAA_ID=ARIZ&startdatetime=20130919T07:00 -0000&enddatetime=20130920T07:00-0000&version=3			



ATL_SP_TIE	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_SP_TIE&start datetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=3
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_SP_TIE&TIE _NAME=AMARGOSA230&startdatetime=20130919T07:00- 0000&enddatetime=20130920T07:00-0000&version=3
ATL_ITC_SP	http://oasis.caiso.com/oasisapi/SingleZip?queryname= ATL_ITC_SP&startdatetime=20130919T07:00- 0000&enddatetime=20130920T07:00-0000&version=3
	http://oasis.caiso.com/oasisapi/SingleZip?queryname= ATL_ITC_SP_&TIEPOINT_NAME= ADLANTO-SP_ITC &startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=3
ATL_ISL_TIE	http://oasis.caiso.com/oasisapi/SingleZip?queryname= ATL_ISL_TIE &startdatetime=20130919T07:00- 0000&enddatetime=20130920T07:00-0000&version=3
	http://oasis.caiso.com/oasisapi/SingleZip?queryname= ATL_ISL_TIE_&TIE_NAME=MALIN500&startdatetime=20130919T07:00- 0000&enddatetime=20130920T07:00-0000&version=3



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 =4,5, 4,5 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 TAC Area Load Forecast RMR Marginal Losses	HASP HASP HASP HASP	ENE_SLRS SLD_FCST CMMT_RMR ENE_LOSS
POST1_GRP	Expected Energy Exceptional Dispatch	N/A	ENE_EA ENE_DISP
DAM_AS_GRP	AS Requirements AS Results	DAM DAM	AS_REQ AS_RESULTS
HASP_AS_GRP	AS Requirements AS Results	HASP	AS_REQ AS_RESULTS
RTM_AS_GRP	AS Requirements AS Results	RTM (RTPD)	AS_REQ 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 Nomogram/Branch Shadow Prices	DAM	PRC_CNSTR PRC_NOMOGRAM
HASP_SD_PRC_GRP	Constraint Shadow Prices Nomogram/Branch Shadow Prices	HASP	PRC_CNSTR PRC_NOMOGRAM
RTM_SD_PRC_GRP	Constraint Shadow Prices Nomogram/Branch Shadow Prices	RTM	PRC_CNSTR 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_MC CC PRC_MPM_LMP_DAM_MC CNC PRC_MPM_LMP_DAM_MC E PRC_MPM_LMP_DAM_MC L
HASP_MPM_LMP_GRP	MPM HASP Locational Marginal Prices (LMP)	HASP	PRC_MPM_RTM_LMP_HA SP
RTPD_MPM_LMP_GRP	MPM RTPD Locational Marginal Prices (LMP)	RTPD	PRC_MPM_RTM_LMP_RT PD

	1		T
DAM_MPM_SD_PRC_G RP	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_CM P 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_FLOWG ATE_CMP_HASP PRC_MPM_RTM_FLOWG ATE_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_FLOWGA TE_CMP_RTPD PRC_MPM_RTM_FLOWGA TE_RTPD PRC_MPM_RTM_NOMOGR AM_CMP_RTPD PRC_MPM_RTM_NOMOGR AM_RTPD
PUB_CRR_BID_SEASO NAL_GRP	Congestion Revenue Rights (CRR) Public Bids From the Annual Auction	SEASONA L	PUB_CRR_BID
PUB_CRR_BID_MONTH LY_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



CSP OFFER SET ANN UAL GRP	Competitive Solicitation Process Offer Set for annual offer period.	ANNUAL	CSP_OFFER_BID
CSP_OFFER_SET_MON THLY_GRP	Competitive Solicitation Process Offer Set for monthly offer period.	MONTHLY	CSP_OFFER_BID
CSP_OFFER_SET_INTR AMONTHLY_GRP	Competitive Solicitation Process Offer Set for intramonthly offer period.	INTRAMO NTHLY	CSP_OFFER_BID
RTM_LAP_GRP	Hourly Real Time Market LAP Marginal Cost of Congestion (MCC) for Apnode.	RTM	PRC_RTM_LAP (Note: 4 files will be created LMP, MCC, SMEC, MCL for the trade date & will be cached for all nodes)

8. Group URL Query Strings

This section contains examples of all Group report URL Examples for XML Downloads. For CSV format 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=20130919T0 7:00-0000&version=1
DAM_SPTIE_LMP_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_SPTIE_LMP_GRP&startdatetime=2013 0919T07:00-0000&version=3 OR
	http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_SPTIE_LMP_GRP&startdatetime=20160919T07:00-0000&version=4
	http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_SPTIE_LMP_GRP&s tartdatetime=20160919T07:00-0000&version=5
RUC_LMP_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=RUC_LMP_GRP&startdatetime=20130919T0 7:00-0000&version=1
HASP_LMP_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=HASP_LMP_GRP&startdatetime=20130919T 07:00-0000&enddatetime=20130919T08:00-0000&version=1



Group ID	Example URL for XML Download
Oloup ID	<u>OR</u>
	http://oasis.caiso.com/oasisapi/GroupZip?groupid=HASP_LMP_GRP&startdatetime=20130919T 07:00-0000&enddatetime=20130919T08:00-0000&version=3
	Note: Version 3 response zip file will include separate file for each price component
RTPD_LMP_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTPD_LMP_GRP&startdatetime=20130919T 07:00-0000&enddatetime=20130919T08:00-0000&version=1
	OR
	http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTPD_LMP_GRP&startdatetime=20130919T 07:00-0000&enddatetime=20130919T08:00-0000&version=3
	Note: Version 3 response zip file will include separate file for each price component
RTPD_SPTIE_LMP_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTPD_SPTIE_LMP_GRP&startdatetime=201 30919T07:00-0000&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
	OR
	http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTPD_SPTIE_LMP_GRP&startdatetime=201 60919T07:00-0000&enddatetime=20160919T08:00-0000&version=5
	Note: Version 5 response zip file will include separate file for each price component
RTM_LMP_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTM_LMP_GRP&startdatetime=20130919T0 7:00-0000&enddatetime=20130919T08:00-0000&version=1
	OR
	http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTM_LMP_GRP&startdatetime=20130919T07:00-0000&enddatetime=20130919T08:00-0000&version=3
	Note: Version 3 response zip file will include separate file for each price component
RTD_SPTIE_LMP_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTD_SPTIE_LMP_GRP&startdatetime=2013 0919T07:00-0000&enddatetime=20130919T08:00-0000&version=3
	OR
	http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTD_SPTIE_LMP_GRP&startdatetime=2016 0919T07:00-0000&enddatetime=20160919T08:00-0000&version=4
	OR
	http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTD_SPTIE_LMP_GRP&startdatetime=2016 0919T07:00-0000&enddatetime=20160919T08:00-0000&version=5

Group ID	Example URL for XML Download		
-	Note: Version 5 response zip file will include separate file for each price		
	component		
DAM_PRC_AS_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_PRC_AS_GRP&startdatetime=201309 19T07:00-0000&version=1		
HASP_PRC_AS_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=HASP_PRC_AS_GRP&startdatetime=20130 919T07:00-0000&version=1		
RTM_PRC_AS_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTM_PRC_AS_GRP&startdatetime=201309 19T07:00-0000&version=1		
DAM_TRNS_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_TRNS_GRP&startdatetime=20130919 T07:00-0000&version=1		
HASP_TRNS_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=HASP_TRNS_GRP&startdatetime=20130919 T07:00-0000&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=20130919 T07:00-0000&version=1		
HASP1_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=HASP1_GRP&startdatetime=20130919T07:0 0-0000&version=1		
POST1_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=POST1_GRP&startdatetime=20130919T07:0 0-0000&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=20130919T0 7:00-0000&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=20130919 T07:00-0000&version=1		
DAM_SD_PRC_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_SD_PRC_GRP&startdatetime=201309		
HASP_SD_PRC_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=HASP_SD_PRC_GRP&startdatetime=20130 919T07:00-0000&version=1		
RTM_SD_PRC_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTM_SD_PRC_GRP&startdatetime=201309 19T07:00-0000&version=1		
PUB_CB_DAM_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_CB_DAM_GRP&startdatetime=201309 19T07:00-0000&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=201309 19T07:00-0000&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		



Group ID	Example URL for XML Download
DAM_FLEX_RAMP_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_FLEX_RAMP_GRP&startdatetime=201 30919T07:00-0000&version=1
RTPD_FLEX_RAMP_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTPD_FLEX_RAMP_GRP&startdatetime=20 130919T07:00-0000&version=1
RTD_FLEX_RAMP_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTD_FLEX_RAMP_GRP&startdatetime=201 30919T07:00-0000&version=1
DAM_MPM_LMP_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_MPM_LMP_GRP&startdatetime=20130 919T07:00-0000&version=1
HASP_MPM_LMP_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=HASP_MPM_LMP_GRP&startdatetime=2013 0919T07:00-0000&enddatetime=20130919T08:00-0000&version=1
RTPD_MPM_LMP_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTPD_MPM_LMP_GRP&startdatetime=2013 0919T07:00-0000&enddatetime=20130919T08:00-0000&version=1
DAM_MPM_SD_PRC_GR	http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_MPM_SD_PRC_GRP&startdatetime=2 0130919T07:00-0000&version=1
HASP_MPM_SD_PRC_GR P	http://oasis.caiso.com/oasisapi/GroupZip?groupid=HASP_MPM_SD_PRC_GRP&startdatetime= 20130919T07:00-0000&version=1
RTPD_MPM_SD_PRC_GR P	http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTPD_MPM_SD_PRC_GRP&startdatetime= 20130919T07:00-0000&version=1
PUB_CRR_BID_SEASONA L_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_CRR_BID_SEASONAL_GRP&startdate time=20130919T07:00-0000&version=1
PUB_CRR_BID_MTHLY_G RP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_CRR_BID_MTHLY_GRP&startdatetime =20130919T07:00-0000&version=1
AGGR_OUTAGE_SCH_G RP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=AGGR_OUTAGE_SCH_GRP&startdatetime= 20130919T07:00-0000&version=1
CSP_OFFER_SET_ANNU AL_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=CSP_OFFER_SET_ANNUAL_GRP&startdat etime=20170101T08:00-0000&version=1
CSP_OFFER_SET_MONT HLY_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=CSP_OFFER_SET_MONTHLY_GRP&startd atetime=20170102T08:00-0000&version=1
CSP OFFER SET INTRA MONTHLY_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=CSP_OFFER_SET_INTRAMONTHLY_GRP &startdatetime=20170110T08:00-0000&version=1
RTM_LAP_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTM_LAP_GRP&startdatetime=20171019T0 7:00-0000&version=6



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
http://www.caiso.com/soa/OASISReport_v4.xsd	4	20161001
http://www.caiso.com/soa/OASISMaster_v2.xsd	2	20161001
http://www.caiso.com/soa/OASISReport_v5.xsd	5	20161201
http://www.caiso.com/soa/OASISReport_v6.xsd	<u>6</u>	20171001
http://www.caiso.com/soa/OASISMaster_v3.xsd	3	20161201
http://www.caiso.com/soa/OASISCSPOfferSet_v1.xsd	1	20171001



10. Schema Files Changes

This section contains the summary of the schema changes involved in the Fall 2016 with release reference.

Schema File Name	Change Description	
OASISReport_v4.xsd	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	
OASISReport_v5.xsd OASISMaster_v3.xsd	Added new reports for Data Release Reports Projects 1. EIM Transfer Limits By Tie 2. Wind and Solar Summary 3. MPM Default Competitive Path Assessment List Added New API's for Atlas Reports 1. Price Correction Messages 2. Scheduling Point Definition	
OASISCSPOfferSet_v1.xsd	3. BAA and Tie Definition 4. Scheduling Point and Tie Definition 5. Intertie Constraint and Scheduling Point Mapping 6. Intertie Scheduling Limit and Tie Mapping New XSD file added to support CSP Offer Set data as part of Fall	
OAGIGOGFOIIEIGEL_V1.XSU	2017 Release.	
OASISReport_v6.xsd	Fall-2017 Release - Added two new API services.	
<u>Upcoming Changes</u>	New API for Control Area Generating Capability List related as part of the Generation database master file consolidation and gas burn report project.	

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 API services:

Short day



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

HE03 is skipped

Long day

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

HE 25 is the repeating hour