



California ISO  
Shaping a Renewed Future

Interface Specification for OASIS

Version: 4.1.1

Date: 1/22/2014

# Interface Specification for OASIS (Spring 2014/FERC764 Release)

Version: 4.1.1

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## Revision History

Date	Version	Description	Author
Sep 23, 2013	4.0.0	Initial release of GMT 2013 services to Market Participants. Pre-GMT tech specs and it's version history is at <a href="http://www.caiso.com/Documents/InterfaceSpecifications-OASISv3_12_0.pdf">http://www.caiso.com/Documents/InterfaceSpecifications-OASISv3_12_0.pdf</a>	AM, EC
Oct 24, 2013	4.0.1	Minor corrections and updates	AM
Nov 26, 2013	4.0.2	Removed deprecated group CRR1_GRP and corrected report names available under RTM1_GRP and HASP1_GRP  Removed alternate URL for CURR_LMP_GRP. StartDateTime and version parameters are now mandatory for all reports.	AM
Dec 15, 2013	4.0.3	PRC_LMP URL typo correction. Update for PRC_FLEX_RAMP and PRC_FLEX_RAMP_CURR.  Updated files in groups HASP_MPM_SD_PRC_GRP, RTPD_MPM_SD_PRC_GRP, DAM_MPM_LMP_GRP	AM
Jan 22, 2014	4.1.1	Merge FERC764 tech spec changes on top of latest GMT release tech spec  Updated current Transmission usage, Demand forecast, Renew able forecast sections for 15-min interval data.	AM, EC

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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
<b>OASIS Data</b>	This is the CAISO operational and market data.
<b>Public Bids</b>	This is the Public Bid data published after 90 days.
<b>Atlas Data</b>	This is the reference data supporting OASIS Data.

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

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

### Time Horizons for CAISO Public Data postings:

- **GMT version services for ISO Market**

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

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



## 2. Data Request to API

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

### 2.1 API URL for single reports

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

**URL?**queryname=<A>&startdatetime=<D>&enddatetime=<D>&market\_run\_id=<A>&version=<A>&varParameters

Where:

**URL** = <http://oasiswebsite/context-path/SingleZip>

For production : oasiswebsite = oasis.caiso.com

context-path = oasisapi

For mapstage : oasiswebsite = oasis.caiso.com

context-path = oasisapi

Mandatory Parameters:

**startdatetime** = valid operating start datetime in GMT

(yyyymmddThh24:miZ)

**enddatetime** = valid operating end datetime in GMT (yyyymmddThh24:miZ)  
which is equal or greater than <startdate>

**queryname** = valid reportname,  
refer to the XML Query Name in the document

**market\_run\_id** = valid market type

**version** = API version (1 for the GMT 2013 release)

Variable Parameters:

**varParameters**

*variable Parameters are defined for each Report  
and its specific Filter options*

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

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

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

### 2.1.2. Example URL for the ISO Market Production Environment

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

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

## 2.2. API URL for Group Reports

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

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

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

Where:

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

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

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

Mandatory Parameters:

**Groupid** = valid groupid

**startdatetime** = valid operating start datetime with timezone offset (yyyyMMddThh24:miZ)

**enddatetime** = valid operating end datetime with timezone offset (yyyyMMddThh24:miZ)

(Only applicable for HASP,RTM groups)

**version** = API version (1 for the GMT 2013 release)

### 2.2.1 Example URL

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

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

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

### 3. Returned XML File

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

#### 3.1 File Names for single and group

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

**startdate\_enddate\_Report Name\_MktRunID\_Stamp#\_Version.Zip**

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

**startdate\_enddate\_Report Name\_MktRunID\_Stamp#\_Version.XML**

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

**startdate\_startDate\_GroupID\_N\_xml\_Version.Zip**

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

**startdate\_startdate\_Report Name\_MktRunID\_Version.XML**

XML Examples:

20131115\_20131115\_ENE\_CB\_AWARDS\_GRP\_N\_N\_v1\_xml.zip  
     20131115\_20131115\_ENE\_CB\_AWARDS\_N\_v1.xml  
 20131115\_20131115\_CURR\_LMP\_GRP\_10\_N\_v1\_xml.zip  
     20131115\_20131115\_PRC\_CURR\_LMP\_RTM\_10\_v1.xml  
 20131104\_20131105\_AS\_REQ\_RTM\_20131115\_09\_44\_44\_v1\_xml.zip  
     20131104\_20131105\_AS\_REQ\_RTM\_20131115\_09\_44\_44\_v1.xml

CSV Examples:

20131115\_20131115\_CURR\_LMP\_GRP\_10\_N\_v1\_xml.zip  
     20131115\_20131115\_PRC\_CURR\_LMP\_RTM\_10\_v1.xml  
 20131013\_20131013\_CB\_NODAL\_LMT\_GRP\_N\_N\_v1\_csv.zip  
     20131013\_20131013\_CB\_NODAL\_LIMITS\_N\_v1.csv  
 20131104\_20131105\_AS\_REQ\_RTM\_20131115\_09\_44\_44\_v1\_csv.zip

20131104\_20131105\_AS\_REQ\_RTM\_20131115\_09\_44\_44\_v1.csv

### 3.1.1 XML Format

The structure of the XML (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. The schemas are **OASISReport\_v1.xsd**, **OASISBid\_v1.xsd**, **OASISCBBid\_v1.xsd**, **OASISCRRPublicBid\_v1.xsd** and **OASISMaster\_v1.xsd**. Each XML file, when downloaded, will point to the most current version of the Schema.

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

XSD	Category	Description
<b>OASISReport_v1.xsd</b>	<b>OASIS Data</b>	This is the primary schema by which OASIS returns operational and market data.
<b>OASISBid_v1.xsd</b>	<b>Public Bids</b>	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.
<b>OASISCBBid_v1.xsd</b>	<b>Public CB Bids</b>	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.
<b>OASISMaster_v1.xsd</b>	<b>Atlas Data</b>	This schema is tailored to the Atlas / Reference data portion of OASIS.
<b>OASISCRRPublicBid_v1.xsd</b>	<b>CRR Bid Data</b>	OASIS returns CRR Bid data by this schema. This schema is a derivative of the CRR bid schema.



### 3.1.3 CSV Format

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

The element in the URL resultformat=5 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\_FLEX\_RAMP\_CURR
- 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 StartDate 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
<b>PRICES</b>			
<b>Locational Marginal Prices (LMP)</b> Hourly Locational Marginal Prices for all PNodes and APNodes in \$/MWh. For the DAM, posts the LMP, plus the Congestion, Loss and Energy Components that make up the LMP. For the RUC, only the LMP will be posted.	PRC_LMP	LMP_CONG_PRC LMP_ENE_PRC LMP_LOSS_PRC LMP_PRC	LMP - Congestion Component; LMP - Energy Component; LMP - Losses Component; LMP for each Pnode and APnode;
<b>HASP Locational Marginal Prices (LMP)</b> 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.  For HASP, SC's should always utilize the CMRI posted price as the valid price for shadow-settlement purposes.	PRC_HASP_LMP	LMP_CONG_PRC LMP_ENE_PRC LMP_LOSS_PRC LMP_PRC	LMP - Congestion Component; LMP - Energy Component; LMP - Losses Component; LMP for each Pnode and APnode;
<b>RTPD Locational Marginal Prices (LMP)</b> 15-minute Locational Marginal Prices for all PNodes and APNodes in \$/MWh.	PRC_RTPD_LMP	LMP_CONG_PRC LMP_ENE_PRC LMP_LOSS_PRC LMP_PRC	LMP - Congestion Component; LMP - Energy Component; LMP - Losses Component; LMP for each Pnode and APnode;
<b>Interval Locational Marginal Prices (LMP)</b> Five-minute Locational Marginal Prices for all PNodes and all APNodes in \$/MWh, for each five-minute interval RTM. Posts the LMP, plus	PRC_INTVL_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

Report/ResultSet	XML Name	XML Data Items	Description
the Congestion, Loss and Energy Components that makes up the LMP.			APNode;
<b>AS Clearing Prices</b> Ancillary Services Regional Shadow Prices for all Ancillary Service types at each AS Region and Sub-Regional Partition. Posted hourly in \$/MW for the DAM and HASP.	PRC_AS	NS_CLR_PRC RD_CLR_PRC  RU_CLR_PRC SP_CLR_PRC  RMD_CLR_PRC  RMU_CLR_PRC	NonSpin Cleared Price; Regulation Down Cleared Price; Regulation Up Cleared Price; Spin Cleared Price;  Regulation Mileage Down Cleared Price.  Regulation Mileage Up Cleared Price
<b>Interval AS Clearing Prices</b> Ancillary Services Regional Shadow Prices for all Ancillary Service types at each AS Region and Sub-Regional Partition. Posts in \$/MW. Posts 15-Minute price relevant to the next 15 minute binding interval for RTM on a fifteen minute basis.	PRC_INTVL_AS	NS_CLR_PRC RD_CLR_PRC  RU_CLR_PRC SP_CLR_PRC  RMD_CLR_PRC  RMU_CLR_PRC	NonSpin Cleared Price; RegulationDown Cleared Price; RegulationUp Cleared Price; Spin Cleared Price;  Regulation Mileage Down Cleared Price.  Regulation Mileage Up Cleared Price.
<b>Intertie Constraint Shadow Prices</b> Posts the hourly constraint pricing at Transmission Interfaces and Intertie Constraints, for each Market Process (DAM,HASP) in \$/MWh, and the 15-Minute Shadow Price in \$/MWh for the RTM. Report will also include an indication of whether the Constraints were binding because of the base operating conditions or contingencies, and if caused by a Contingency, the identity of the specific Contingency.	PRC_CNSTR	SHADOW_PRC   <mREASON>	Shadow price by Transmission Interface and Intertie Constraint   Will indicate either "Base Case" or specific Contingency ID.
<b>Fuel Prices</b> For each Gas Flow Day, lists the gas price in \$/mmBtu by fuel region.	PRC_FUEL	FUEL_PRC	Daily Gas Price.
<b>Current Locational Marginal Price</b> 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.	PRC_CURR_LMP	LMP_CONG_PRC LMP_ENE_PRC LMP_LOSS_PRC LMP_PRC	LMP - Congestion Component; LMP - Energy Component; LMP - Losses Component; LMP for each Phode and APNode;
<b>Nomogram/Branch Shadow Prices</b> Posts the hourly constraint pricing at each Nomogram and Branch, for each Market Process (DAM,HASP) in \$/MWh, and the 15-Minute Shadow Price in \$/MWh for the RTPD in RTM. Report will also include an indication of whether the Constraints were binding because of the base operating conditions or contingencies, and if caused by a Contingency, the identity of the specific Contingency.	PRC_NOMOGRAM	SHADOW_PRC   <mREASON>	Shadow price by Nomogram or Branch.   Will indicate either "Base Case" or specific Contingency ID.



Report/ResultSet	XML Name	XML Data Items	Description
<p><a href="#">Interval Nomogram/Branch Shadow Prices</a></p> <p>Posts the 5 minute constraint pricing at each Nomogram and Branch, for each Market Process (RTM) in \$/MWh.</p> <p>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.</p>	PRC_RTM_NOMOGRAM	SHADOW_PRC  <rtREASON>	Shadow price by Nomogram or Branch.  Will indicate either "Base Case" or specific Contingency ID.
<p><a href="#">Interval Intertie Constraint Shadow Prices</a></p> <p>Posts the 5 minute constraint pricing at Transmission Interfaces and Intertie Constraints in \$/MWh</p> <p>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.</p>	PRC_RTM_FLOWGATE	SHADOW_PRC  <rtREASON>	Shadow price by Transmission Interface and Intertie Constraint  Will indicate either "Base Case" or specific Contingency ID.
<p><a href="#">Reference Prices</a></p> <p>Quarterly Reference prices associated with each node based on historical data, posted for Convergence Bidding purposes.</p>	PRC_DS_REF	SPPLY_PRC  DMD_PRC	Supply Component  Demand Component
<p><a href="#">Nodal Group Constraints</a></p> <p>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 Phodes included in the Nodal Group Constraint is displayed. This report is triggered with the publication of the Day-Ahead results.</p>	CB_NODAL_GRP_CNSTR_PRC	SHADOW_PRC  CLEARED_MW MAXIMUM_LIMIT MINIMUM_LIMIT	Shadow price by Nodal Constraint Group Cleared Price Maximum Limit of the Price Minimum Limit of the Price
<p><a href="#">System Ramping Nomogram Results</a></p>	PRC_FLEX_RAMP PRC_FLEX_RAMP_CURR	MKT_RUN_START_TIME  MKT_TYPE  RAMP_UP_CAP_REQ  RAMP_UP_SHADOW_PRC  RAMP_DOWN_CAP_REQ  RAMP_DOWN_SHADOW_PRC	Indicates the start time of the market run in pacific Time format  An identifier which specifies the market run type (DAM.RTPD& RTD)  Upward raming capacity nomogram results  Shadow price of the upward ramping nomogram results  Downward ramping capacity nomogram results.  Shadow price of the downward nomogram results.

Report/ResultSet	XML Name	XML Data Items	Description
<b>Contingency Dispatch Locational Marginal Prices</b>  Similar to the Interval Locational Marginal Prices (LMP) report, but for Real Time Contingency Dispatch (RTCD) runs. Posts the ten-minute Locational Marginal Prices for PNodes and APNodes in \$/MWh, for each ten-minute interval RTCD.	PRC_CD_INTVL_LMP	LMP_CONG_PRC  LMP_ENE_PRC  LMP_LOSS_PRC	LMP Marginal Cost of Congestion for ten-minute Contingency Dispatch.  LMP Marginal Cost of Energy for ten-minute Contingency Dispatch.  LMP Marginal Cost of Losses for ten-minute Contingency Dispatch.
<b>Contingency Dispatch Intertie Constraint Shadow Prices</b>  Similar to the Interval Intertie Constraint Shadow Prices report, but for Real Time Contingency Dispatch (RTCD) runs. Posts the 10-Minute constraint pricing at Transmission Interfaces and Intertie Constraints in \$/MWh, for the RTCD run in the RTM. Report will also include an indication of whether the Constraints were binding because of the base operating conditions or contingencies, and if caused by a Contingency, the identity of the specific Contingency.	PRC_CD_RTM_FLOWGATE	SHADOW_PRC  REASON	Shadow price by Transmission Interface and Intertie Constraint for ten-minute Contingency Dispatch.  Will indicate either "Base Case" or specific Contingency ID.
<b>Contingency Dispatch Nomogram/Branch Shadow Prices</b>  Similar to the Interval Nomogram/Branch Shadow Prices report, but for Real Time Contingency Dispatch (RTCD) runs. Posts the 10-Minute constraint pricing at each Nomogram and Branch in \$/MWh, for the RTCD run in the RTM. Report will also include an indication of whether the Constraints were binding because of the base operating conditions or contingencies, and if caused by a Contingency, the identity of the specific Contingency.	PRC_CD_RTM_NOMOGRAM	SHADOW_PRC  REASON	Shadow price by Nomogram or Branch for ten-minute Contingency Dispatch.  Will indicate either "Base Case" or specific Contingency ID.
<b>MPM DA Locational Marginal Prices (LMP):</b>	PRC_MPM_LMP	LMP_PRC	LMP for each nodes  LMP - Competitive

Report/ResultSet	XML Name	XML Data Items	Description
Hourly Locational Marginal Prices from the Day-Ahead MPM run for all PNodes and APNodes in \$/MWh. Posts the LMP, plus the Competitive Congestion, Non-Competitive Congestion, Loss and Energy Components that make up the LMP.		LMP_CONG_CC_PRC LMP_CONG_NC_PRC LMP_ENE_PRC LMP_LOSS_PRC	Congestion Component LMP- Non-Competitive Congestion Component LMP - Energy Component LMP - Losses Component
MPM RT Locational Marginal Prices (LMP): Posts hourly, the 4 15-minute Locational Marginal Prices from the HASP MPM run for all PNodes and APNodes in \$/MWh. OR Posts every 15 minutes, the 15-minute Locational Marginal Prices from the RTPD MPM run for all PNodes and APNodes in \$/MWh. Posts the LMP, plus the Competitive Congestion, Non-Competitive Congestion, Loss and Energy Components that make up the LMP.	PRC_MPM_RTM_LMP	LMP_PRC LMP_CONG_CC_PRC LMP_CONG_NC_PRC LMP_ENE_PRC LMP_LOSS_PRC	LMP for each nodes LMP - Competitive Congestion Component LMP- Non-Competitive Congestion Component LMP - Energy Component LMP - Losses Component
MPM Nomogram/Branch Shadow Prices (DAM): Posts the hourly constraint pricing at each binding Nomogram and Branch, for Day Ahead MPM run in \$/MWh. Report will also include an indication of whether the Constraints were binding because of the base operating conditions or contingencies, and if caused by a Contingency, the identity of the specific Contingency.	PRC_MPM_NOMOGRAM	SHADOW_PRC <mtREASON>	Shadow price by Nomogram or Branch. Will indicate either "Base Case" or specific Contingency ID.
MPM Nomogram/Branch Shadow Prices (RTM) Posts hourly, 4 15-minute interval constraint pricing at each binding Nomogram and Branch, for HASP MPM run in \$/MWh OR Posts every 15 minutes, 15-minute interval constraint pricing at each binding Nomogram and Branch, for RTPD MPM run in \$/MWh. Report will also include an indication of whether the Constraints were binding because of the base operating conditions or contingencies, and if caused by a Contingency, the identity of the specific Contingency.	PRC_MPM_RTM_NOMOGRAM	SHADOW_PRC <mtREASON>	Shadow price by Nomogram or Branch. Will indicate either "Base Case" or specific Contingency ID.
MPM Nomogram/Branch Competitive Paths (DAM): Posts the hourly results of the dynamic competitiveness constraint for the Day-Ahead MPM run, for nomograms and flowgates. Posts	PRC_MPM_NOMOGRAM_CMP	MPM_CMP_STATUS_FLG	Competitive Path indicator (Y/N)



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

Report/ResultSet	XML Name	XML Data Items	Description
and branch groups. Posts a flag indicating whether each binding constraint was competitive or not.			
MPM Reference Bus (DAM) :  Posts the reference bus used in the MPM run. Posted hourly for the Day-Ahead market. Note, the IFM, RUC, and regular HASP runs use a distributed reference bus.	PRC_MPM_REF_BUS	REFERENCE_BUS_ID	Reference Bus Name
MPM Reference Bus (RTM) :  Posts the reference bus used in the MPM run. Posted hourly, the 4 15-minute interval for the HASP market. OR Posted every 15 minutes, the 15-minute interval data for the RTPD market.  Note, the IFM, RUC, and regular HASP runs use a distributed reference bus.	PRC_MPM_RTM_REF_BUS	REFERENCE_BUS_ID	Reference Bus Name
Greenhouse Gas Allowance Price  For each real-time trade date, posts the index price for the California Carbon Allowance and for day-ahead bids, use the index price from the previous day's index price	PRC_GHG_ALLOWANCE	OPR_DATE   GHG_ALLOWANCE_PRC	The operating date.   Greenhouse gas allowance price index value
<b>TRANSMISSION</b>			
<b>Current Transmission Usage</b> Consolidated report for Current transmission capacity and usage per Transmission Interface. Starts with 7-days ahead and is updated continuously as outages occur. AS, Energy and ETC/TOR utilization values are updated in conjunction with the publication of the DAM and RTM market results.	TRNS_CURR_USAGE	ATC_MW AS_IMPORT_MW  ENE_IMPORT_MW  CBM_MW OTC_MW  TTC_MW  CONSTRAINT_MW USEAGE_MW  TRM_MW TRM_UF_MW TRM_FTO_MW TRM_SPL_MW	Current Hourly/15-min ATC; Current Hourly/15-min Tagged AS from Imports;  Current Hourly/15-min Tagged Net Energy from Imports / Exports;  Current Hourly/15-min CBM; Current Hourly/15-min OTC; This refers to the "Hourly TTC" value  Current Hourly/15-min TTC; This refers to the "Seasonal TTC" value  Current Hourly Constraint; Current Hourly Unused TR Capacity  Total TRM  Unscheduled Flow  Forced Topology outages  Simultaneous Path Interaction



Report/ResultSet	XML Name	XML Data Items	Description
		MKT_XFER_CAP_MW	Market Transfer Capability
<p><b>Market Available Transmission Capacity</b> 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.</p>	TRNS_ATC	ATC_MW	DAM Hourly or HASP 15-minute or RTPD 15-minute ATC
<p><b>Transmission Outages</b> List planned and actual Transmission Outage events per Transmission Interface and direction. Updated with every outage event.</p>	TRNS_OUTAGE	OUTAGE_LIMIT_MW	Curtailed Line Rating for each Transmission Interface MW.
<p><b>Transmission Interface Usage</b> Consolidated report for transmission capacity, usage, ETC/TOR utilization and schedules resulting from CAISO market operations for DAM,HASP or RTPD by Transmission Interface.</p>	TRNS_USAGE	ATC_MW  AS_IMPORT_MW  ENE_IMPORT_MW  CBM_MW  OTC_MW  TTC_MW  CONSTRAINT_MW  USEAGE_MW	DAM Hourly or HASP 15-minute or RTPD 15-minute ATC;  DAM Hourly or HASP 15-minute or RTPD 15-minute DAM Hourly or HASP Hourly or RTPD 15-minute Tagged AS from Imports;  DAM Hourly or HASP 15-minute or RTPD 15-minute Tagged Net Energy from Imports / Exports;  DAM Hourly or HASP 15-minute or RTPD 15-minute CBM;  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  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  DAM Hourly or HASP 15-minute or RTPD 15-minute Constraint;  DAM Hourly or HASP 15-

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



Report/ResultSet	XML Name	XML Data Items	Description
<p><a href="#">Wind and Solar Forecast</a></p> <p>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</p>	SLD_REN_FCST	RENEW_FCST_DA_MW RENEW_FCST_HASP_MW RENEW_FCST_ACT_MW RENEW_FCST_5MIN_MW RENEW_FCST_15MIN_MW   TRADING_HUB   RENEWABLE_TYPE	<p>The forecast MW value for each hour of the Operating Day, posted in the morning the day before the each markets run</p> <p>The trading hub name. Valid values are NP15, SP15, ZP26 and ALL</p> <p>Renewable Type include one of the following</p> <ul style="list-style-type: none"> <li>- "Wind" (Include: Wind PIRP &amp; EIR resources).</li> <li>- "Solar" (Include: Solar PIRP &amp; EIR resources).</li> </ul>
<b>ENERGY</b>			
<p><a href="#">System Load and Resource Schedules</a></p> <p>Balanced System Load, Generation, Import and Export per TAC Area, and for CAISO total. Posts results for DAM, RUC Capacity, HASP and 5-Minute RTM, as indicated below:</p> <p><b>DAM</b> Load, Generation, Import and Export Schedules per TAC Area and CAISO total for each Operating Hour, in MW.</p> <p><b>RUC</b> Capacity from Generation and Imports for each TAC Area and CAISO total for each Operating Hour, in MW</p> <p>Hour-Ahead Scheduling Process (<b>HASP</b>) Import and Export per TAC Area and CAISO total, in MW.</p> <p>5 minute <b>RTM</b> Generation, Import and Export per TAC Area and CAISO total, in MW.</p>	ENE_SLRS	ISO_TOT_GEN_MW  ISO_TOT_LOAD_MW  ISO_TOT_IMP_MW ISO_TOT_EXP_MW  TOT_GEN_MW  TOT_LOAD_MW  TOT_IMP_MW  TOT_GEN_MW	<p>ISO Total MW cleared as Generation in DAM, RUC, HASP, RTM.</p> <p>ISO Total MW cleared as Demand in DAM, HASP, RTM.</p> <p>ISO Total MW cleared as imports in DAM, RUC, HASP, RTM.</p> <p>ISO Total MW cleared as Exports in DAM, HASP, RTM.</p> <p>Total MW cleared as Generation in DAM, RUC, HASP, RTM, by TAC Area.</p> <p>ISO Total MW cleared as Demand in DAM, HASP, RTM, by TAC Area.</p> <p>ISO Total MW cleared as imports in DAM, RUC, HASP, RTM, by TAC Area.</p> <p>ISO Total MW cleared as Exports in DAM, HASP, RTM, by TAC Area.</p>
<p><a href="#">Expected Energy</a></p> <p>After-the-Fact Energy Accounting, per Energy Type. Posted daily at T+1, in MWh for ISO total.</p>	ENE_EA	DASE_MWH DSSE_MWH DABE_MWH OE_MWH HASE_MWH SRE_MWH RED_MWH EDE_MWH	DA Scheduled Energy DA Self-Scheduled Energy DA Bid Award Energy Optimal Energy HourAhead Scheduled Energy Standard Ramping Energy Ramping Energy Deviation

Report/ResultSet	XML Name	XML Data Items	Description
Please refer to the table in the BPM for Market Operations, Appendix C.4 for the complete list of valid Expected Energy Types.		RMRE_MWH MSSLFE_MWH RE_MWH MLE_MWH SE_MWH RTSSE_MWH DMLE_MWH PE_MWH TEE_MWH	Exceptional Dispatch Energy RMR Energy MSS Load Following Energy Residual Energy Minimum Load Energy Slic Energy RT Self Scheduled Energy DA Minimum Load Energy Pumping Energy Total Expected Energy
<b>Market Power Mitigation Status</b> Mitigation Indicator showing whether any bids were replaced by Reference Curves. Value will be "Y" or "N".	ENE_MPM	MPM_STATUS_FLG	Indicator whether mitigation occurred in that Operating Interval
<b>RMR</b> Pre-Dispatched and MPM Determined RMR capacity (MW) summed for all resources, for the DAM and RTM market processes.	CMMT_RMR	DISPATCH_MW  TOT_AVAIL_MW  DETER_MW	The RMR capacity dispatched ahead of the Market.  Total RMR capacity available to the market in that hour. RMR capacity determined by MPM before market run.
<b>Exceptional Dispatch</b> Summary of Exceptional Dispatch Data. Posted daily at T+1, in MWh by TAC area and Instruction Type.  Please refer to the table in the BPM for Market Operations, Appendix C.4 for the complete list of valid Exceptional Dispatch Instruction Types.	ENE_DISP	EXPT_DIS_PRC EXPT_DIS_MWH	Exceptional Dispatch Price. Exceptional Dispatch MW
<b>Marginal Losses</b> CAISO Total Marginal Loss costs (\$) and Total System losses (MWh). Posted hourly for the DAM and HASP.	ENE_LOSS	TOT_LOSS_PRC  TOT_LOSS_MW	Total costs incurred due to Losses in this hour/interval. Total MWh lost
<b>Resource Adequacy and Minimum Load</b> Commitment data for each market. All data for all markets posted daily at T+1. All commitment data is related to ISO committed resources.	CMMT_RA_MLC	RA_CAP_COMM_MW  MIN_LD_MW  RA_MLC_PRC  MIN_LD_MLC_PRC  TOT_STRT_CST_PRC  RA_STRT_PRC  RA_COMM_UNITS_CNT  TOT_COMM_UNITS_CNT  TOT_COMM_CAP_MW	RA Capacity Committed  Minimum Load  RA Minimum Load Cost (MLC)  Minimum Load cost  Total Start Up Cost  RA Start-Up Cost  RA Number of Units Committed  Total Number of Units Committed  Total Capacity Committed
<b>Convergence Bidding Aggregate Awards</b> Posts Day Ahead CAISO aggregate Virtual Bidding Awards for Energy for Supply &	ENE_CB_AWARDS	ISO_TOT_SPLY_MW  ISO_TOT_DMD_MW	Supply Component  Demand Component



Report/ResultSet	XML Name	XML Data Items	Description
Demand Publishes with the Day Ahead Market results			
<p><b>Net Cleared Convergence Bidding Awards</b></p> <p>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.</p> <p>This report will post after all Real Time markets have closed for the associated Trading Day.</p> <p>Posts Convergence Bidding Supply Awards Less Convergence Bidding Demand Awards per node. Under this convention, positive net cleared virtual quantities will indicate net Virtual Supply, whereas negative net cleared virtual quantities will indicate net Virtual Demand at a given node.</p> <p>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.</p>	ENE_CB_CLR_AWARDS	ENE_CB_CLR_MW	Cleared MW
<p><b>Day Ahead Market Summary</b></p> <p>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.</p> <p>Posts after the completion of the DAM Market publication.</p>	ENE_CB_MKT_SUM	DMD_SLF_ENE_SUB_MW  DMD_SLF_ENE_CLR_MW  DMD_SLF_CLR_CST  DMD_ENE_SUB_MW	Sum of demand self schedule energy bids submitted for all internal resources for a specific trade date in the day ahead market  Sum of demand self schedule energy bids awarded (cleared) for all internal resources for a specific trade date in the day ahead market  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  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  Sum of dollars associated

Report/ResultSet	XML Name	XML Data Items	Description
		DMD_ENE_SUB_CST	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_MW	Sum of demand economic energy bids awarded (cleared) for all internal resources for a specific trade date in the day ahead market
		DMD_ENE_CLR_CST	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 calculation
		DMD_VIR_ENE_CLR_MW	Sum of demand convergence bidding (virtual) energy bids awarded (cleared) for all internal resources for a specific trade date in the day ahead market
		DMD_VIR_CLR_CST	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_ENE_SUB_MW	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_SUB_CST	Sum of dollars associated with demand self schedule energy bids submitted,





Report/ResultSet	XML Name	XML Data Items	Description
			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 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
		DMD_TOT_CLR_CST	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_MW	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_SUB_CST	Sum of dollars associated with supply physical energy submitted for all internal resources for a specific trade date in the day ahead market. All the MW/price pair values in each price curve will be included in this calculation.
		SPLY_ENE_CLR_MW	Sum of supply physical energy bids awarded (cleared) for all internal resources for a specific trade date in the day ahead market
		SPLY_ENE_CLR_CST	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_SUB_MW	Sum of supply self schedule energy bids submitted for all internal resources for a specific trade date in the day



Report/ResultSet	XML Name	XML Data Items	Description
			ahead market
		SPLY_SLF_ENE_CLR_MW	Sum of supply self schedule energy bids awarded (cleared) for all internal resources for a specific trade date in the day ahead market
		SPLY_SLF_CLR_CST	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_ENE_SUB_MW	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_SUB_CST	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_ENE_CLR_MW	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_VIR_CLR_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_SUB_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_SUB_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
		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

Report/ResultSet	XML Name	XML Data Items	Description
		SPLY_TOT_CLR_CST	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 Sum of Exports self schedule energy bids submitted for a specific trade date in the day ahead market N/A
		EXP_SLF_ENE_CLR_MW	Sum of Exports self schedule energy bids awarded (cleared) for a specific trade date in the day ahead market
		EXP_SLF_CLR_CST	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_MW	Sum of Exports economic energy bids submitted for a specific trade date in the day ahead market. All the MW values in each price curve will be included in this calculation
		EXP_ENE_SUB_CST	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_MW	Sum of Exports economic energy bids awarded (cleared) for a specific trade date in the day ahead market
		EXP_ENE_CLR_CST	Sum of dollars associated with Exports economic energy bids awarded (cleared) for a specific trade date in the day ahead market
		EXP_VIR_ENE_SUB_MW	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



Report/ResultSet	XML Name	XML Data Items	Description
			included in this calculation
		EXP_VIR_SUB_CST	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_ENE_CLR_MW	Sum of Exports convergence bidding (virtual) energy bids awarded (cleared) for a specific trade date in the day ahead market
		EXP_VIR_CLR_CST	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_ENE_SUB_MW	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_SUB_CST	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
		EXP_TOT_ENE_CLR_MW	Sum of Exports self schedule energy bids awarded (cleared), Exports economic energy bids awarded (cleared), Exports virtual bids awarded (cleared) (and nodes) for a specific trade date in the day ahead market
		EXP_TOT_CLR_CST	Sum of dollars associated with Exports self schedule energy bids awarded (cleared), Exports economic energy bids awarded (cleared), Exports virtual bids awarded (cleared) (and nodes) for a specific trade date in the day ahead market
		IMP_SLF_ENE_SUB_MW	
		IMP_SLF_ENE_CLR_MW	Sum of Imports self schedule energy bids submitted for a specific trade date in the day ahead market

Report/ResultSet	XML Name	XML Data Items	Description
		IMP_SLF_CLR_CST	Sum of Imports self schedule energy bids awarded (cleared) for a specific trade date in the day ahead market
			Sum of dollars associated with Imports self schedule 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_ENE_SUB_MW	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_ENE_SUB_CST	Sum of dollars associated with Imports physical energy bids 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_ENE_CLR_MW	Sum of Imports physical energy bids awarded (cleared) 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_ENE_CLR_CST	Sum of dollars associated with Imports physical energy bids awarded (cleared) 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 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_VIR_SUB_CST	Sum of dollars associated with Imports convergence bidding (virtual) energy bids 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_ENE_CLR_MW	Sum of Imports convergence bidding (virtual) energy bids awarded (cleared) 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_CLR_CST	Sum of dollars associated with Imports convergence bidding (virtual) energy bids awarded (cleared) 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
		IMP_TOT_ENE_SUB_MW	ahead market Sum of dollars associated with Imports convergence bidding (virtual) energy bids awarded (cleared) for a specific trade date in the day ahead market
		IMP_TOT_SUB_CST	Sum of Imports economic energy bids submitted, Imports virtual bids submitted (and nodes) for a specific trade date in the day ahead market
		IMP_TOT_ENE_CLR_MW	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
		IMP_TOT_CLR_CST	Sum of Imports economic energy bids awarded (cleared), Imports virtual bids awarded (cleared) (and nodes) for a specific trade date in the day ahead market
			Sum of dollars associated with Imports economic energy bids awarded (cleared), Imports virtual bids awarded (cleared) (and nodes) for a specific trade date in the day ahead market
<a href="#">Convergence Bidding Nodal MW Limits</a> 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 Phnode other than an Eligible Phnode established for an Intertie. This report is triggered with the publication of the Day-Ahead results.	CB_NODAL_LIMITS	CB_NODAL_LIMITS  PHYSICAL_TYPE	Upper or lower limit (MW)  'Supply' or 'Demand'
<a href="#">Contingency Dispatch Resource Schedules</a>  Similar to the System Load and Resource Schedules report, but for Real Time Contingency Dispatch (RTCD) runs. RTM Generation, Import and Export per TAC Area and CAISO total, in MW for all 10-minute RTCD runs.	ENE_CD_SLRS	ISO_TOT_GEN_MW  ISO_TOT_IMP_MW  ISO_TOT_EXP_MW  TOT_GEN_MW  TOT_IMP_MW	ISO Total MW cleared as Generation for all 10-Minute Contingency Dispatch run.  ISO Total MW cleared as imports for all 10-Minute Contingency Dispatch run.  ISO Total MW cleared Exports for all 10-Minute Contingency Dispatch run.  Total MW cleared as Generation per TAC area for all 10-Minute Contingency Dispatch run.  Total MW cleared as imports



Report/ResultSet	XML Name	XML Data Items	Description
		TOT_EXP_MW	per TAC area for all 10-Minute Contingency Dispatch run.  Total MW cleared as Exports per TAC area for all 10-Minute Contingency Dispatch run.
<p>Aggregated Generation Outages</p> <p>Generator de-rates and outages which are considered in the Day-Ahead Market. Report is generated from the list of de-rates and outages that are known at the time of publication, typically 5:00 AM PPT the day prior to the operating day. Aggregated into a total MW capacity reduction amount by trading hub (NP15, ZP26, and SP15) and resource type (thermal, hydro, renewable).</p>	AGGR_OUTAGE_SCH	<p>REPORT_DATE</p> <p>OUTAGE_DATE</p> <p>OUTAGE_HOUR</p> <p>FUEL_CATEGORY</p> <p>TRADING_HUB</p> <p>OUTAGE_MW</p>	<p>The date when the data was published</p> <p>Outage date</p> <p>Outage hour</p> <p>Fuel Category</p> <p>Trading Hub name</p> <p>Outage MW</p>
<b>ANCILLARY</b>			
<p>AS Requirements</p> <p>Ancillary Service Capacity Minimum and Maximums per AS Region. Report will post for the 2-Day-Ahead forecast, DAM, HASP and RTM (RTPD)</p> <p>Note: When encountering a max A/S limit of zero, please interpret this as "no limit".</p>	AS_REQ	<p>NS_REQ_MAX_MW</p> <p>RD_REQ_MAX_MW</p> <p>RU_REQ_MAX_MW</p> <p>SP_REQ_MAX_MW</p> <p>NS_REQ_MIN_MW</p> <p>RD_REQ_MIN_MW</p> <p>RU_REQ_MIN_MW</p> <p>SP_REQ_MIN_MW</p> <p>AS_REQ_MAX_MW</p> <p>RMD_REQ_MAX_MW</p> <p>RMD_REQ_MIN_MW</p> <p>RMU_REQ_MAX_MW</p>	<p>Max capacity to be acquired for NonSpin</p> <p>Max capacity to be acquired for RegulationDown</p> <p>Max capacity to be acquired for RegulationUp</p> <p>Max capacity to be acquired for Spin</p> <p>Min capacity to be acquired for NonSpin</p> <p>Min capacity to be acquired for RegulationDown</p> <p>Min capacity to be acquired for RegulationUp</p> <p>Min capacity to be acquired for Spin</p> <p>Max capacity UP to be acquired for RegulationUp, Spin, Non Spin For 2DA Market.</p> <p>Max capacity to be acquired for Regulation Mileage Down</p> <p>Min capacity to be acquired for Regulation Mileage Down</p> <p>Max capacity to be acquired for Regulation Mileage Up</p> <p>Min capacity to be acquired for Regulation Mileage Down</p>

Report/ResultSet	XML Name	XML Data Items	Description
		RMU_REQ_MIN_MW	
<b>AS Results</b>  Ancillary Service Capacity procured and self-scheduled, by AS type, posted for each AS Region. Also posts the sum of the procured and self-scheduled.  Posts Hourly for the Day-Ahead (DAM), HASP, and in 15 Minute (RTPD) intervals, by AS type. Also posts Total AS Cost for each AS Region, by AS Type.  Results will only post for AS Regions that are binding for that market run.	AS_RESULTS	RU_TOT_CST_PRC	The Total line cost across AS Region for Regulation Up.
		RD_TOT_CST_PRC	The Total line cost across AS Region for Regulation Down.
		SP_TOT_CST_PRC	The Total line cost across AS Region for Spin.
		NS_TOT_CST_PRC	The Total line cost across AS Region for NonSpin.
		NS_PROC_MW	The MW of capacity procured from the AS market bids for NonSpin.
		NS_SPROC_MW	The MW of capacity self-provided by market participants.
		NS_TOT_MW	Total MW of capacity obtained.
		SP_PROC_MW	The MW of capacity procured from the AS market bids for Spin.
		SP_SPROC_MW	The MW of capacity self-provided by market participants.
		SP_TOT_MW	Total MW of capacity obtained
		RU_PROC_MW	The MW of capacity procured from the AS market bids for RegulationUp.
		RU_SPROC_MW	The MW of capacity self-provided by market participants.
		RU_TOT_MW	Total MW of capacity obtained.
		RD_PROC_MW	The MW of capacity procured from the AS market bids for RegulationDown.
		RD_SPROC_MW	The MW of capacity self-provided by market participants.
		RD_TOT_MW	Total MW of capacity obtained
		RMD_PROC_MW	The MW of capacity procured from the AS market bids for Regulation Mileage Down
		RMD_SPROC_MW	The MW of capacity self-provided by market participants for Regulation





Report/ResultSet	XML Name	XML Data Items	Description
		RMD_TOT_CST_PRC	Mileage Down The Total line cost across AS Region for Regulation Mileage Down
		RMD_TOT_MW	Total MW of capacity obtained for Regulation Mileage Up
		RMU_PROC_MW	The MW of capacity procured from the AS market bids for Regulation Mileage Up
		RMU_SPROC_MW	The MW of capacity self-provided by market participants for Regulation Mileage Up
		RMU_TOT_CST_PRC	The Total line cost across AS Region for Regulation Mileage Up
		RMU_TOT_MW	Total MW of capacity obtained for Regulation Mileage Up
<b>Actual Operating Reserves</b> Total Actual Load, AS, and Operating Reserves maintained during delivery.	AS_OP_RSRV	OP_RSRV_ACT_PCT	Total Actual Operating Reserves maintained during delivery.
<b>Mileage Calculation Components</b> Lists system performance accuracy, average Instructed Mileage (MW), and system Mileage multiplier data from the prior seven days for each hour of a trading day.	AS_MILEAGE_CALC	RMD_AVG_MIL	Average Instructed Mileage for regulation mileage down
		RMD_SYS_MIL_MUL	System Mileage Multiplier for regulation mileage down
		RMD_SYS_PERF_ACC	System Performance Accuracy for regulation mileage up
		RMU_AVG_MIL	Average Instructed Mileage for regulation mileage up
		RMU_SYS_MIL_MUL	System Mileage Multiplier for regulation mileage up
		RMU_SYS_PERF_ACC	System Performance Accuracy for regulation mileage up.
<b>CRR</b>			
<b>CRR Clearing Prices</b> Congestion Revenue Rights Auction Clearing Prices by PNode for CRR segments.	CRR_CLEARING	ON_PRC LT_OFF_PRC  Note : These the XML tags for corresponding data items	On-peak Price Off-peak Price



Report/ResultSet	XML Name	XML Data Items	Description
		CRR_MARKET_NAME RESOURCE_NAME START_DATE_TIME END_DATE_TIME REASON	CRR MARKET NAME APNODE ID START DATE End DATE MARKET TERM
<a href="#">CRR Inventory</a> Congestion Revenue Rights Daily Inventory.	CRR_INVENTORY	ON_MW OFF_MW  Note : These are the XML tags for corresponding data items CRR_MARKET_NAME SOURCE SINK RESOURCE_NAME OPTION INVENTORY_DATE_TIME START_DATE_TIME END_DATE_TIME REASON STATUS_TYPE CRR_CATEGORY CRR_NSR CRR_SEGMENT	On-peak capacity Off-peak capacity  CRR MARKET NAME Source APNODE Sink APNODE OWNER NAME CRR OPTION INVENTORY DATE START DATE END DATE MARKET TERM CRR Type CRR CATEGORY NSR INDEX SEGMENT ID
<b>PUBLIC BIDS</b>			
<a href="#">Public Bids</a>  Clean Bid payloads used as the input in the markets, with certain fields replaced by pseudo data as indicated. Posted for DAM and RTM. Posted at T+90. The Public Bid Data is downloadable to XML and CSV only, for a single day at a time.  Data is available for downloading at midnight on the 90 <sup>th</sup> day after the trading day.  The Publications and Revisions log will not create records for the Public Bid data when it becomes available for downloading on T+90.	PUB_BID	Note: Below structure is common for --GENERATION, LOAD, and INTERTIE.  STARTTIME STOPTIME  REGISTEREDGENERATOR  SCHEDULINGCOORDINATOR  PRODUCTBID DESCRIPTION MRID  MARKETPRODUCT DESCRIPTION  MARKETPRODUCTTYPE  BIDSELFSCHE TIMEINTERVALSTART TIMEINTERVALEND SELFSCHEMW  BIDSCHEDULE TIMEINTERVALSTART TIMEINTERVALEND BIDPRICECURVE MRID CURVESCHEDDATA XAXISDATA Y1AXISDATA Y2AXISDATA	  Start time of bid End time of bid  Pseudo ID of Resource  Pseudo ID of SC_ID Description of product  All the possible types like EN, LFD, LFU, NR, RC,RD,RU,SR,RMD and RMU  Selfscheduled bid start and end time with the MW.  Bid Schedule with start and end time  Curve details contains X and Y1 & Y2 axis data.  Xaxis= optional element Y1axis = optional element Y2 axis = Opportunity Cost;

Report/ResultSet	XML Name	XML Data Items	Description
<b>CB Public Bids</b>	<b>PUB_CB_BID</b>	STARTTIME STOPTIME  AggregatedPnode IndividualPnode VirtualBidType SCHEDULINGCOORDINATOR  ENERGYPRODUCTBID BIDSCHEDULE TIMEINTERVALSTART TIMEINTERVALEND BIDPRICECURVE CURVESCHEDDATA XAXISDATA Y1AXISDATA	optional element  Start time of Virtual bid End time of Virtual bid  Pseudo ID of APnode Pseudo ID of Pnode Supply/Demand Bid Pseudo ID of SC_ID  Bid Schedule with start and end time  Curve details contains X and Y axis data.
<b>Congestion Revenue Rights (CRR) Public Bids</b>	<b>PUB_CRR_BID</b>	STARTTIME  STOPTIME  MARKETTERM  MARKETNAME  SOURCEID  SINKID  TIMEOFUSE  MWQUANTITY  CRR_PRICE  CRRBID_ID  CRRBIDSEG_ID  AUCTIONCLOSEDATE	Effective Start Date of the CRR  Effective End Date of the CRR  CRR auction type . Valid values are Seasonal or Monthly  CRR auction name  Source id  Sink id  Time of use of the CRR bid  The MW Quantity of the bid point  The Price of the bid point  CRR Bid identifier  The point number in the CRR Bid  CRR auction Close date.
<b>ATLAS</b>			
<b>PNode Listing</b>	<b>ATL_PNODE</b>	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

Report/ResultSet	XML Name	XML Data Items	Description
			end dates will be added.
APNode Listing	ATL_APNODE	N/A	All Aggregated Pricing Node locations used in CAISO Markets. For CB, Y/N flag will be added. For CB, Maximum CB MW Limit, with effective start and end dates will be added.
Load Distribution Factors (LDFs)	ATL_LDF	N/A	Typical Load Distribution Factors that map PNodes to APNodes.
Load Aggregation Point Listing	ATL_LAP	N/A	All Load Aggregation Points in CAISO, by type.
Market Resource Listing	ATL_RESOURCE	N/A	List of CAISO Resources and their associated PNode/APNode
Trading Hub Listing	ATL_HUB	N/A	All Trading Hub APNodes in CAISO.
Trading Hub - PNode Mapping	ATL_PNODE_MAP	N/A	Map of all PNodes to each Trading Hub APNode.
AS Region - PNode Mapping	ATL_AS_REGION_MAP	N/A	Map of all PNodes to each Ancillary Services Region.
RUC Zone - PNode Mapping	ATL_RUC_ZONE_MAP	N/A	Map of all PNodes to each Reliability Unit Commitment Zone.
TAC Area - PNode Mapping	ATL_TAC_AREA	N/A	Map of all PNodes to each Transmission Access Charge Area.
Intertie Constraint Mapping	ATL_TIEPOINT	N/A	Map of all Intertie Constraints with respective Transmission Interface and TSIN.
Transmission Interface Listing	ATL_TI	N/A	All Transmission Interfaces in CAISO.
Publications and Revisions	ATL_PUB	N/A	List of all OASIS data publication and revisions. Users can track all data additions and updates to OASIS through these entries.
OASIS Publication Schedule	ATL_PUB_SCHED	N/A	Expected publication schedule by which all OASIS reports are published.
System Operating Messages	ATL_OSM	N/A	System Operating Messages posted by Severity. Severity : Green = Normal, Red = Emergency, Blue = Urgent
Peak-Off-Peak Definition	ATL_PEAK_ON_OFF	N/A	Posts Hourly Peak/Off-Peak indicator based on the WECC definition.

## 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	<a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_LMP&amp;startdatetime=20130919T07:00:0000&amp;enddatetime=20130920T07:00:0000&amp;version=1&amp;market_run_id=DAM&amp;grp_type=ALL_APNODES">http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_LMP&amp;startdatetime=20130919T07:00:0000&amp;enddatetime=20130920T07:00:0000&amp;version=1&amp;market_run_id=DAM&amp;grp_type=ALL_APNODES</a> OR



XML Name	Example URL for XML Download
	<p><a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_LMP&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1&amp;market_run_id=DAM&amp;node=LAPLMG1_7_B2">http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_LMP&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1&amp;market_run_id=DAM&amp;node=LAPLMG1_7_B2</a></p> <p>NOTE:</p> <ol style="list-style-type: none"> <li>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.</li> <li>2. The "enddate" 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</li> <li>3. The "enddate" is referenced only when a node is supplied in the query</li> </ol>
PRC_INTVL_LMP	<p><a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_INTVL_LMP&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130919T08:00-0000&amp;version=1&amp;market_run_id=RTM&amp;grp_type=ALL_APNODES">http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_INTVL_LMP&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130919T08:00-0000&amp;version=1&amp;market_run_id=RTM&amp;grp_type=ALL_APNODES</a></p> <p>OR</p> <p><a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_INTVL_LMP&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130919T08:00-0000&amp;version=1&amp;market_run_id=RTM&amp;node=LAPLMG1_7_B2">http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_INTVL_LMP&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130919T08:00-0000&amp;version=1&amp;market_run_id=RTM&amp;node=LAPLMG1_7_B2</a></p> <p>NOTE:</p> <ol style="list-style-type: none"> <li>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.</li> <li>2. The "enddate" 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</li> <li>3. The "enddate" is referenced only when a node is supplied in the query</li> <li>4. Market_run_id 'RTM' will continue to provide 5-min RTD interval LMP data</li> </ol>
PRC_HASP_LMP	<p><a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_HASP_LMP&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130919T08:00-0000&amp;version=1&amp;market_run_id=HASP&amp;grp_type=ALL_APNODES">http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_HASP_LMP&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130919T08:00-0000&amp;version=1&amp;market_run_id=HASP&amp;grp_type=ALL_APNODES</a></p> <p>OR</p> <p><a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_HASP_LMP&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130919T08:00-0000&amp;version=1&amp;market_run_id=HASP&amp;node=LAPLMG1_7_B2">http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_HASP_LMP&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130919T08:00-0000&amp;version=1&amp;market_run_id=HASP&amp;node=LAPLMG1_7_B2</a></p> <p>NOTE:</p> <ol style="list-style-type: none"> <li>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.</li> <li>2. The "enddate" 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</li> <li>3. The "enddate" is referenced only when a node is supplied in the query</li> </ol>
PRC_RTPD_LMP	<p><a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_RTPD_LMP&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130919T08:00-0000&amp;version=1&amp;market_run_id=RTPD&amp;grp_type=ALL_APNODES">http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_RTPD_LMP&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130919T08:00-0000&amp;version=1&amp;market_run_id=RTPD&amp;grp_type=ALL_APNODES</a></p> <p>OR</p> <p><a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_RTPD_LMP&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130919T08:00-0000&amp;version=1&amp;market_run_id=RTPD&amp;node=LAPLMG1_7_B2">http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_RTPD_LMP&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130919T08:00-0000&amp;version=1&amp;market_run_id=RTPD&amp;node=LAPLMG1_7_B2</a></p> <p>NOTE:</p>

XML Name	Example URL for XML Download
	<ol style="list-style-type: none"> <li>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.</li> <li>2. The "enddate" 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 "startdate" supplied</li> <li>3. The "enddate" is referenced only when a node is supplied in the query</li> </ol>
PRC_AS	<a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_AS&amp;market_run_id=DAM&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1&amp;anc_type=ALL&amp;anc_region=ALL">http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_AS&amp;market_run_id=DAM&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1&amp;anc_type=ALL&amp;anc_region=ALL</a> Note: For HASP replace, 'DAM' with 'HASP'.
PRC_INTVL_AS	<a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_INTVL_AS&amp;market_run_id=RTM&amp;startdate=20130919T07:00-0000&amp;enddate=20130919T08:00-0000&amp;version=1&amp;anc_type=ALL&amp;anc_region=ALL">http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_INTVL_AS&amp;market_run_id=RTM&amp;startdate=20130919T07:00-0000&amp;enddate=20130919T08:00-0000&amp;version=1&amp;anc_type=ALL&amp;anc_region=ALL</a>
PRC_CNSTR	<a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_CNSTR&amp;market_run_id=DAM&amp;ti_id=ALL&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_CNSTR&amp;market_run_id=DAM&amp;ti_id=ALL&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a>
PRC_FUEL	<a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_FUEL&amp;fuel_region_id=ALL&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_FUEL&amp;fuel_region_id=ALL&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a>
PRC_CURR_LMP	<a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_CURR_LMP&amp;node=ALL&amp;startdate=20130919T07:00-0000&amp;enddate=20130919T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_CURR_LMP&amp;node=ALL&amp;startdate=20130919T07:00-0000&amp;enddate=20130919T07:00-0000&amp;version=1</a>
PRC_CURR_HUB_LMP	<a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_CURR_HUB_LMP&amp;startdate=20130919T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_CURR_HUB_LMP&amp;startdate=20130919T07:00-0000&amp;version=1</a>
PRC_NOMOGRAM	<a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_NOMOGRAM&amp;market_run_id=DAM&amp;nomogram_id=ALL&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_NOMOGRAM&amp;market_run_id=DAM&amp;nomogram_id=ALL&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a>
PRC_RTM_NOMOGRAM	<a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_RTM_NOMOGRAM&amp;market_run_id=RTM&amp;nomogram_id=ALL&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_RTM_NOMOGRAM&amp;market_run_id=RTM&amp;nomogram_id=ALL&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a>
PRC_RTM_FLOWGATE	<a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_RTM_FLOWGATE&amp;market_run_id=RTM&amp;node=ALL&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_RTM_FLOWGATE&amp;market_run_id=RTM&amp;node=ALL&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a>
PRC_DS_REF	<a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_DS_REF&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1&amp;market_run_id=DAM&amp;grp_type=ALL">http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_DS_REF&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1&amp;market_run_id=DAM&amp;grp_type=ALL</a> OR <a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_DS_REF&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1&amp;market_run_id=DAM&amp;node=LAPLMG1_7_B2">http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_DS_REF&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1&amp;market_run_id=DAM&amp;node=LAPLMG1_7_B2</a> NOTE: Prices are the same for the entire quarter. Recommend to use grp_type or single node only. Grp_type will give all the APNODES or ALL NODES groups and node can enable users to select individual APNODES or PNODES.
CB_NODAL_GRP_CNSTR_PRC	<a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=CB_NODAL_GRP_CNSTR_PRC&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=CB_NODAL_GRP_CNSTR_PRC&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a>
PRC_FLEX_RAMP	<a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_FLEX_RAMP&amp;market_run_id=DAM&amp;startdate=20130919T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_FLEX_RAMP&amp;market_run_id=DAM&amp;startdate=20130919T07:00-0000&amp;version=1</a> OR <a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_FLEX_RAMP&amp;market_run_id=RTPD&amp;startdate=20130919T07:00-0000&amp;version=1&amp;grp_type=ALL">http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_FLEX_RAMP&amp;market_run_id=RTPD&amp;startdate=20130919T07:00-0000&amp;version=1&amp;grp_type=ALL</a> OR <a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_FLEX_RAMP&amp;market_run_id=RTD&amp;startdate=20130919T07:00-0000&amp;version=1&amp;grp_type=ALL">http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_FLEX_RAMP&amp;market_run_id=RTD&amp;startdate=20130919T07:00-0000&amp;version=1&amp;grp_type=ALL</a> Note: This will be based on the historical view. Returns data based on the input time range.
PRC_FLEX_RAMP_CURR	<a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_FLEX_RAMP&amp;market_run_id=RTPD&amp;startdate=20130919T07:00-0000&amp;version=1&amp;grp_type=CURR">http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_FLEX_RAMP&amp;market_run_id=RTPD&amp;startdate=20130919T07:00-0000&amp;version=1&amp;grp_type=CURR</a> OR

XML Name	Example URL for XML Download
	<a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_FLEX_RAMP&amp;market_run_id=RTD&amp;startdatetime=20130919T07:00-0000&amp;version=1&amp;grp_type=CURR">http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_FLEX_RAMP&amp;market_run_id=RTD&amp;startdatetime=20130919T07:00-0000&amp;version=1&amp;grp_type=CURR</a>  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.
PRC_CD_INTVL_LMP	<a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_CD_INTVL_LMP&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130920T07:00-0000&amp;version=1&amp;market_run_id=RTM&amp;grp_type=ALL_APNODES">http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_CD_INTVL_LMP&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130920T07:00-0000&amp;version=1&amp;market_run_id=RTM&amp;grp_type=ALL_APNODES</a> OR <a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_CD_INTVL_LMP&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130920T07:00-0000&amp;version=1&amp;market_run_id=RTM&amp;node=LAPLMG1_7_B2">http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_CD_INTVL_LMP&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130920T07:00-0000&amp;version=1&amp;market_run_id=RTM&amp;node=LAPLMG1_7_B2</a>
PRC_CD_RTM_FLOWGATE	<a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_CD_RTM_FLOWGATE&amp;market_run_id=RTM&amp;ti_id=ALL&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_CD_RTM_FLOWGATE&amp;market_run_id=RTM&amp;ti_id=ALL&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130920T07:00-0000&amp;version=1</a>
PRC_CD_RTM_NOMOGRAM	<a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_CD_RTM_NOMOGRAM&amp;market_run_id=RTM&amp;nomogram_id=ALL&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_CD_RTM_NOMOGRAM&amp;market_run_id=RTM&amp;nomogram_id=ALL&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130920T07:00-0000&amp;version=1</a>
TRANSMISSION	
TRNS_CURR_USAGE	<a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=TRNS_CURR_USAGE&amp;ti_id=ALL&amp;ti_direction=ALL&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=TRNS_CURR_USAGE&amp;ti_id=ALL&amp;ti_direction=ALL&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130920T07:00-0000&amp;version=1</a>
TRNS_ATC	<a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=TRNS_ATC&amp;market_run_id=DAM&amp;ti_id=ALL&amp;ti_direction=ALL&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=TRNS_ATC&amp;market_run_id=DAM&amp;ti_id=ALL&amp;ti_direction=ALL&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130920T07:00-0000&amp;version=1</a>  <a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=TRNS_ATC&amp;market_run_id=RTPD&amp;ti_id=ALL&amp;ti_direction=ALL&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=TRNS_ATC&amp;market_run_id=RTPD&amp;ti_id=ALL&amp;ti_direction=ALL&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130920T07:00-0000&amp;version=1</a>
TRNS_OUTAGE	<a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=TRNS_OUTAGE&amp;ti_id=ALL&amp;ti_direction=ALL&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=TRNS_OUTAGE&amp;ti_id=ALL&amp;ti_direction=ALL&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130920T07:00-0000&amp;version=1</a>
TRNS_USAGE	<a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=TRNS_USAGE&amp;market_run_id=DAM&amp;ti_id=ALL&amp;ti_direction=ALL&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=TRNS_USAGE&amp;market_run_id=DAM&amp;ti_id=ALL&amp;ti_direction=ALL&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130920T07:00-0000&amp;version=1</a>  <a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=TRNS_USAGE&amp;market_run_id=RTPD&amp;ti_id=ALL&amp;ti_direction=ALL&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=TRNS_USAGE&amp;market_run_id=RTPD&amp;ti_id=ALL&amp;ti_direction=ALL&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130920T07:00-0000&amp;version=1</a>



PRC_MPM_LMP	<p><a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_LMP&amp;market_run_id=DAM&amp;grp_type=ALL_APNODES&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_LMP&amp;market_run_id=DAM&amp;grp_type=ALL_APNODES&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130920T07:00-0000&amp;version=1</a></p> <p>OR</p> <p><a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_LMP&amp;market_run_id=DAM&amp;node=3EMIDIO_6_N001&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_LMP&amp;market_run_id=DAM&amp;node=3EMIDIO_6_N001&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130920T07:00-0000&amp;version=1</a></p> <p>NOTE:</p> <ol style="list-style-type: none"> <li>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.</li> <li>2. The "enddateime" 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 "startdateime" supplied</li> <li>3. The "enddateime" is referenced only when a node is supplied in the query</li> </ol>
PRC_MPM_RTM_LMP	<p>HASP</p> <p><a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_LMP&amp;market_run_id=HASP&amp;grp_type=ALL_APNODES&amp;startdateime=20130920T06:00-0000&amp;enddateime=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_LMP&amp;market_run_id=HASP&amp;grp_type=ALL_APNODES&amp;startdateime=20130920T06:00-0000&amp;enddateime=20130920T07:00-0000&amp;version=1</a></p> <p>OR</p> <p><a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_LMP&amp;market_run_id=HASP&amp;node=3EMIDIO_6_N001&amp;startdateime=20130919T07:00-0000&amp;enddateime=20130919T08:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_LMP&amp;market_run_id=HASP&amp;node=3EMIDIO_6_N001&amp;startdateime=20130919T07:00-0000&amp;enddateime=20130919T08:00-0000&amp;version=1</a></p> <p>RTPD</p> <p><a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_LMP&amp;market_run_id=RTPD&amp;grp_type=ALL_APNODES&amp;startdateime=20130920T06:00-0000&amp;enddateime=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_LMP&amp;market_run_id=RTPD&amp;grp_type=ALL_APNODES&amp;startdateime=20130920T06:00-0000&amp;enddateime=20130920T07:00-0000&amp;version=1</a></p> <p>OR</p> <p><a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_LMP&amp;market_run_id=RTPD&amp;node=3EMIDIO_6_N001&amp;startdateime=20130919T07:00-0000&amp;enddateime=20130919T08:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_LMP&amp;market_run_id=RTPD&amp;node=3EMIDIO_6_N001&amp;startdateime=20130919T07:00-0000&amp;enddateime=20130919T08:00-0000&amp;version=1</a></p> <p>NOTE:</p> <ol style="list-style-type: none"> <li>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.</li> <li>2. The "enddateime" 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 "startdateime" supplied</li> <li>3. The "enddateime" is referenced only when a node is supplied in the query</li> </ol>
PRC_MPM_NOMOGRAM	<p><a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_NOMOGRAM&amp;market_run_id=DAM&amp;nomogram_id=ALL&amp;startdateime=20130919T07:00-0000&amp;enddateime=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_NOMOGRAM&amp;market_run_id=DAM&amp;nomogram_id=ALL&amp;startdateime=20130919T07:00-0000&amp;enddateime=20130920T07:00-0000&amp;version=1</a></p>
PRC_MPM_RTM_NOMOGRAM	<p>HASP</p> <p><a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_NOMOGRAM&amp;market_run_id=HASP&amp;nomogram_id=ALL&amp;startdateime=20130919T07:00-0000&amp;enddateime=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_NOMOGRAM&amp;market_run_id=HASP&amp;nomogram_id=ALL&amp;startdateime=20130919T07:00-0000&amp;enddateime=20130920T07:00-0000&amp;version=1</a></p>



	<p>RTPD</p> <p><a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_NOMOGRAM&amp;market_run_id=RTPD&amp;nomogram_id=ALL&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_NOMOGRAM&amp;market_run_id=RTPD&amp;nomogram_id=ALL&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a></p>
PRC_MPM_NOMOGRAM_CMP	<p><a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_NOMOGRAM_CMP&amp;market_run_id=DAM&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_NOMOGRAM_CMP&amp;market_run_id=DAM&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a></p>
PRC_MPM_RTM_NOMOGRAM_CMP	<p><a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_NOMOGRAM_CMP&amp;market_run_id=HASP&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_NOMOGRAM_CMP&amp;market_run_id=HASP&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a></p> <p>OR</p> <p><a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_NOMOGRAM_CMP&amp;market_run_id=RTPD&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_NOMOGRAM_CMP&amp;market_run_id=RTPD&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a></p>
PRC_MPM_CNSTR	<p><a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_CNSTR&amp;market_run_id=DAM&amp;tid=ALL&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_CNSTR&amp;market_run_id=DAM&amp;tid=ALL&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a></p>
PRC_MPM_RTM_FLOWGATE	<p><a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_FLOWGATE&amp;market_run_id=HASP&amp;tid=ALL&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_FLOWGATE&amp;market_run_id=HASP&amp;tid=ALL&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a></p> <p><a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_FLOWGATE&amp;market_run_id=RTPD&amp;tid=ALL&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_FLOWGATE&amp;market_run_id=RTPD&amp;tid=ALL&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a></p>
PRC_MPM_CNSTR_CMP	<p><a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_CNSTR_CMP&amp;market_run_id=DAM&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_CNSTR_CMP&amp;market_run_id=DAM&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a></p> <p><a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_CNSTR_CMP&amp;market_run_id=HASP&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_CNSTR_CMP&amp;market_run_id=HASP&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a></p> <p><a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_CNSTR_CMP&amp;market_run_id=RTPD&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_CNSTR_CMP&amp;market_run_id=RTPD&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a></p>
PRC_MPM_REF_BUS	<p><a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_REF_BUS&amp;market_run_id=DAM&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_REF_BUS&amp;market_run_id=DAM&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a></p>
PRC_MPM_RTM_REF_BUS	<p><a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_REF_BUS&amp;market_run_id=HASP&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_REF_BUS&amp;market_run_id=HASP&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a></p> <p><a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_REF_BUS&amp;market_run_id=RTPD&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_REF_BUS&amp;market_run_id=RTPD&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a></p>
PRC_GHG_ALLOWANCE	<p><a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_GHG_ALLOWANCE&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_GHG_ALLOWANCE&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a></p>
<b>SYSTEM DEMAND</b>	
SLD_FCST_PEAK	<p><a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_FCST_PEAK&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_FCST_PEAK&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a></p>
SLD_FCST	<p><a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_FCST&amp;market_run_id=DAM&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_FCST&amp;market_run_id=DAM&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a></p> <p><a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_FCST&amp;market_run_id=2DA&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_FCST&amp;market_run_id=2DA&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a></p>

	<a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_FCST&amp;market_run_id=7DA&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_FCST&amp;market_run_id=7DA&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a>  <a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_FCST&amp;market_run_id=RTM&amp;exec_type=RTD&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_FCST&amp;market_run_id=RTM&amp;exec_type=RTD&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a>  <a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_FCST&amp;market_run_id=RTM&amp;exec_type=RTPD&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_FCST&amp;market_run_id=RTM&amp;exec_type=RTPD&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a>
SLD_REN_FCST	<a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_REN_FCST&amp;market_run_id=DAM&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_REN_FCST&amp;market_run_id=DAM&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a>  <a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_REN_FCST&amp;market_run_id=RTPD&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_REN_FCST&amp;market_run_id=RTPD&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a>  <a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_REN_FCST&amp;market_run_id=RTD&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_REN_FCST&amp;market_run_id=RTD&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a>
<b>ENERGY</b>	
ENE_SLRS	<a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_SLRS&amp;market_run_id=DAM&amp;tac_zone_name=ALL&amp;schedule=ALL&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_SLRS&amp;market_run_id=DAM&amp;tac_zone_name=ALL&amp;schedule=ALL&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a>
ENE_EA	<a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_EA&amp;energy_type=ALL&amp;opr_interval=ALL&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_EA&amp;energy_type=ALL&amp;opr_interval=ALL&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a>
ENE_MPM	<a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_MPM&amp;market_run_id=DAM&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_MPM&amp;market_run_id=DAM&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a> OR <a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_MPM&amp;market_run_id=RTM&amp;execution_type=HASP&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_MPM&amp;market_run_id=RTM&amp;execution_type=HASP&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a> OR <a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_MPM&amp;market_run_id=RTM&amp;execution_type=RTPD&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_MPM&amp;market_run_id=RTM&amp;execution_type=RTPD&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a>
CMMT_RMR	<a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=CMMT_RMR&amp;market_run_id=DAM&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=CMMT_RMR&amp;market_run_id=DAM&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a>
ENE_DISP	<a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_DISP&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_DISP&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a>
ENE_LOSS	<a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_LOSS&amp;market_run_id=DAM&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_LOSS&amp;market_run_id=DAM&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a>
CMMT_RA_MLC	<a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=CMMT_RA_MLC&amp;market_run_id=DAM&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=CMMT_RA_MLC&amp;market_run_id=DAM&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a>
ENE_CB_AWARDS	<a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_CB_AWARDS&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_CB_AWARDS&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a>
ENE_CB_CLR_AWARDS	<a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_CB_CLR_AWARDS&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_CB_CLR_AWARDS&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a>
ENE_CB_MKT_SUM	<a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_CB_MKT_SUM&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_CB_MKT_SUM&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a>
CB_NODAL_LIMITS	<a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=CB_NODAL_LIMITS&amp;node_id=RNCHSECO_2_N108&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=CB_NODAL_LIMITS&amp;node_id=RNCHSECO_2_N108&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a>
ENE_CD_SLRS	<a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_CD_SLRS&amp;market_run_id=RTM&amp;tac_zone_name=ALL&amp;schedule=ALL&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_CD_SLRS&amp;market_run_id=RTM&amp;tac_zone_name=ALL&amp;schedule=ALL&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a>
AGGR_OUTAGE_SCH	<a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=AGGR_OUTAGE_SCH&amp;fuel_category=Renewable&amp;trading_hub=NP15&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=AGGR_OUTAGE_SCH&amp;fuel_category=Renewable&amp;trading_hub=NP15&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a>

<b>ANCILLARY</b>	
AS_REQ	<a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=AS_REQ&amp;market_run_id=DAM&amp;anc_type=ALL&amp;anc_region=ALL&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=AS_REQ&amp;market_run_id=DAM&amp;anc_type=ALL&amp;anc_region=ALL&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130920T07:00-0000&amp;version=1</a> OR <a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=AS_REQ&amp;market_run_id=HASP&amp;anc_type=ALL&amp;anc_region=ALL&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=AS_REQ&amp;market_run_id=HASP&amp;anc_type=ALL&amp;anc_region=ALL&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130920T07:00-0000&amp;version=1</a> OR <a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=AS_REQ&amp;market_run_id=RTM&amp;anc_type=ALL&amp;anc_region=ALL&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=AS_REQ&amp;market_run_id=RTM&amp;anc_type=ALL&amp;anc_region=ALL&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130920T07:00-0000&amp;version=1</a>
AS_RESULTS	<a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=AS_RESULTS&amp;market_run_id=DAM&amp;anc_type=ALL&amp;anc_region=ALL&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=AS_RESULTS&amp;market_run_id=DAM&amp;anc_type=ALL&amp;anc_region=ALL&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130920T07:00-0000&amp;version=1</a> OR <a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=AS_RESULTS&amp;market_run_id=HASP&amp;anc_type=ALL&amp;anc_region=ALL&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=AS_RESULTS&amp;market_run_id=HASP&amp;anc_type=ALL&amp;anc_region=ALL&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130920T07:00-0000&amp;version=1</a> OR <a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=AS_RESULTS&amp;market_run_id=RTM&amp;anc_type=ALL&amp;anc_region=ALL&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=AS_RESULTS&amp;market_run_id=RTM&amp;anc_type=ALL&amp;anc_region=ALL&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130920T07:00-0000&amp;version=1</a>
AS_OP_RSRV	<a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=AS_OP_RSRV&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=AS_OP_RSRV&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130920T07:00-0000&amp;version=1</a>
AS_MILEAGE_CALC	<a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=AS_MILEAGE_CALC&amp;anc_type=ALL&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=AS_MILEAGE_CALC&amp;anc_type=ALL&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130920T07:00-0000&amp;version=1</a>
<b>CRR</b>	
CRR_CLEARING	<a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=CRR_CLEARING&amp;market_name=ALL&amp;market_term=ALL&amp;time_of_use=ALL&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=CRR_CLEARING&amp;market_name=ALL&amp;market_term=ALL&amp;time_of_use=ALL&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130920T07:00-0000&amp;version=1</a>
CRR_INVENTORY	<a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=CRR_INVENTORY&amp;market_name=ALLOC_AN_2013_S03_TR&amp;market_term=ALL&amp;time_of_use=ALL&amp;startdatetime=20130924T07:00-0000&amp;enddatetime=20130925T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=CRR_INVENTORY&amp;market_name=ALLOC_AN_2013_S03_TR&amp;market_term=ALL&amp;time_of_use=ALL&amp;startdatetime=20130924T07:00-0000&amp;enddatetime=20130925T07:00-0000&amp;version=1</a>
<b>PUBLICBIDS</b>	
PUB_BID	<a href="http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_RTM_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_RTM_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1</a> (for RTM) or <a href="http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_DAM_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_DAM_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1</a> (for DAM)
PUB_CB_BID	<a href="http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_CB_DAM_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_CB_DAM_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1</a> (for DAM)
PUB_CRR_BID	<a href="http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_CRR_BID_SEASONAL_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_CRR_BID_SEASONAL_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1</a>  <a href="http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_CRR_BID_MONTHLY_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_CRR_BID_MONTHLY_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1</a>
<b>ATLAS</b>	
ATL_PNODE	<a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_PNODE&amp;Pnode_id=12THST_6_N101&amp;Pnode_type=ALL&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_PNODE&amp;Pnode_id=12THST_6_N101&amp;Pnode_type=ALL&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130920T07:00-0000&amp;version=1</a>
ATL_APNODE	<a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_APNODE&amp;APnode_type=ALL&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130920T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_APNODE&amp;APnode_type=ALL&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130920T07:00-0000&amp;version=1</a>
ATL_LDF	<a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_LDF&amp;apnode_id=AGRIC_6_PL3N5_APND">http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_LDF&amp;apnode_id=AGRIC_6_PL3N5_APND</a>

	<a href="#">&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a>
ATL_LAP	<a href="#">http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_LAP&amp;APnode_type=ALL&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a>
ATL_RESOURCE	<a href="#">http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_RESOURCE&amp;resource_id=8MILE_2_V200LD&amp;agg_type=ALL&amp;resource_type=ALL&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a>
ATL_HUB	<a href="#">http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_HUB&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a>
ATL_PNODE_MAP	<a href="#">http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_PNODE_MAP&amp;pnode_id=KEARNY_7_KY2D&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a>
ATL_AS_REGION_MAP	<a href="#">http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_AS_REGION_MAP&amp;as_region_id=A54_CNT&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a>
ATL_RUC_ZONE_MAP	<a href="#">http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_RUC_ZONE_MAP&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a>
ATL_TAC_AREA	<a href="#">http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_TAC_AREA_MAP&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a>
ATL_TIEPOINT	<a href="#">http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_TIEPOINT&amp;resource_type=ALL&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a>
ATL_TI	<a href="#">http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_TI&amp;Ti_type=ALL&amp;wecc_path=ALL&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a>
ATL_PUB	<a href="#">http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_PUB&amp;market_run_id=DAM&amp;oasis_section=ALL&amp;status=ALL&amp;atlpubversion=ALL&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a>
ATL_PUB_SCHED	<a href="#">http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_PUB_SCHED&amp;market_run_id=DAM&amp;oasis_section=ALL&amp;publication_type=ALL&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a>
ATL_OSM	<a href="#">http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_OSM&amp;msg_severity=ALL&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a>
ATL_PEAK_ON_OFF	<a href="#">http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_PEAK_ON_OFF&amp;startdate=20130919T07:00-0000&amp;enddate=20130920T07:00-0000&amp;version=1</a>

## 7. Group Report Definitions

This section contains all GroupIDs and corresponding reports.

GroupID	Reports In Group	Market Type	ReportXML 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)
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
RTPD_MPM_LMP_GRP	MPM RTPD Locational Marginal Prices (LMP)	RTPD	PRC_MPM_RTM_LMP
DAM_MPM_SD_PRC_GRP	MPM Constraint Shadow Prices MPM Constraint Competitive Paths MPM Nomogram/Branch Shadow Prices MPM Nomogram/Branch Competitive Paths	DAM	PRC_MPM_CONSTR PRC_MPM_CONSTR_CM P  PRC_MPM_NOMOGRAM PRC_MPM_NOMOGRAM_ CMP
HASP_MPM_SD_PRC_GRP	MPM Flow gate Competitive Paths MPM Flow gate 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 Flow gate Competitive Paths MPM Flow gate Shadow Prices MPM Nomogram/Branch Competitive Paths MPM Nomogram/Branch	RTPD	PRC_MPM_RTM_FLOWG ATE_CMP_RTPD PRC_MPM_RTM_FLOWG ATE_RTPD PRC_MPM_RTM_NOMOGR AM_CMP_RTPD



	Shadow Prices		PRC_MPM_RTM_NOMOGR AM_RTPD
PUB_CRR_BID_SEASONAL_GRP	Congestion Revenue Rights (CRR) Public Bids From the Annual Auction	SEASONAL	PUB_CRR_BID
PUB_CRR_BID_MONTHLY_GRP	Congestion Revenue Rights (CRR) Public Bids From the Monthly Auction	MONTHLY	PUB_CRR_BID
AGGR_OUTAGE_SCH_GRP	Aggregated Generation Outages data	N/A	AGGR_OUTAGE_SCH

## 8. Group URL Query Strings

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

Group ID	Example URL for XML Download
<b>PRICES</b>	
DAM_LMP_GRP	<a href="http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_LMP_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_LMP_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1</a>
RUC_LMP_GRP	<a href="http://oasis.caiso.com/oasisapi/GroupZip?groupid=RUC_LMP_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/GroupZip?groupid=RUC_LMP_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1</a>
HASP_LMP_GRP	<a href="http://oasis.caiso.com/oasisapi/GroupZip?groupid=HASP_LMP_GRP&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130919T08:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/GroupZip?groupid=HASP_LMP_GRP&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130919T08:00-0000&amp;version=1</a>
RTPD_LMP_GRP	<a href="http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTPD_LMP_GRP&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130919T08:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTPD_LMP_GRP&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130919T08:00-0000&amp;version=1</a>
RTM_LMP_GRP	<a href="http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTM_LMP_GRP&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130919T08:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTM_LMP_GRP&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130919T08:00-0000&amp;version=1</a>
DAM_PRC_AS_GRP	<a href="http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_PRC_AS_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_PRC_AS_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1</a>
HASP_PRC_AS_GRP	<a href="http://oasis.caiso.com/oasisapi/GroupZip?groupid=HASP_PRC_AS_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/GroupZip?groupid=HASP_PRC_AS_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1</a>
DAM_TRNS_GRP	<a href="http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_TRNS_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_TRNS_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1</a>
HASP_TRNS_GRP	<a href="http://oasis.caiso.com/oasisapi/GroupZip?groupid=HASP_TRNS_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/GroupZip?groupid=HASP_TRNS_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1</a>
RTPD_TRNS_GRP	<a href="http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTPD_TRNS_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTPD_TRNS_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1</a>
DAM1_GRP	<a href="http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM1_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM1_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1</a>
RTM1_GRP	<a href="http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTM1_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTM1_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1</a>
RTPD_FCST_GRP	<a href="http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTPD_FCST_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTPD_FCST_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1</a>
HASP1_GRP	<a href="http://oasis.caiso.com/oasisapi/GroupZip?groupid=HASP1_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/GroupZip?groupid=HASP1_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1</a>

Group ID	Example URL for XML Download
POST1_GRP	<a href="http://oasis.caiso.com/oasisapi/GroupZip?groupid=POST1_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/GroupZip?groupid=POST1_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1</a>
DAM_AS_GRP	<a href="http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_AS_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_AS_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1</a>
HASP_AS_GRP	<a href="http://oasis.caiso.com/oasisapi/GroupZip?groupid=HASP_AS_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/GroupZip?groupid=HASP_AS_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1</a>
RTM_AS_GRP	<a href="http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTM_AS_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTM_AS_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1</a>
PUB_DAM_GRP	<a href="http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_DAM_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_DAM_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1</a>
PUB_RTM_GRP	<a href="http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_RTM_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_RTM_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1</a>
CURR_LMP_GRP	<a href="http://oasis.caiso.com/oasisapi/GroupZip?groupid=CURR_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/GroupZip?groupid=CURR_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1</a>
DAM_SD_PRC_GRP	<a href="http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_SD_PRC_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_SD_PRC_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1</a>
HASP_SD_PRC_GRP	<a href="http://oasis.caiso.com/oasisapi/GroupZip?groupid=HASP_SD_PRC_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/GroupZip?groupid=HASP_SD_PRC_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1</a>
RTM_SD_PRC_GRP	<a href="http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTM_SD_PRC_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTM_SD_PRC_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1</a>
PUB_CB_DAM_GRP	<a href="http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_CB_DAM_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_CB_DAM_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1</a>
CB_REF_PRC_GRP	<a href="http://oasis.caiso.com/oasisapi/GroupZip?groupid=CB_REF_PRC_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/GroupZip?groupid=CB_REF_PRC_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1</a>
CB_CLR_DAM_GRP	<a href="http://oasis.caiso.com/oasisapi/GroupZip?groupid=CB_CLR_DAM_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/GroupZip?groupid=CB_CLR_DAM_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1</a>
CB_NODAL_LMT_GRP	<a href="http://oasis.caiso.com/oasisapi/GroupZip?groupid=CB_NODAL_LMT_GRP&amp;resultformat=5&amp;startdatetime=20130919T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/GroupZip?groupid=CB_NODAL_LMT_GRP&amp;resultformat=5&amp;startdatetime=20130919T07:00-0000&amp;version=1</a>
DAM_FLEX_RAMP_GRP	<a href="http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_FLEX_RAMP_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_FLEX_RAMP_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1</a>
RTPD_FLEX_RAMP_GRP	<a href="http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTPD_FLEX_RAMP_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTPD_FLEX_RAMP_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1</a>
RTD_FLEX_RAMP_GRP	<a href="http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTD_FLEX_RAMP_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTD_FLEX_RAMP_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1</a>
DAM_MPM_LMP_GRP	<a href="http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_MPM_LMP_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_MPM_LMP_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1</a>
HASP_MPM_LMP_GRP	<a href="http://oasis.caiso.com/oasisapi/GroupZip?groupid=HASP_MPM_LMP_GRP&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130919T08:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/GroupZip?groupid=HASP_MPM_LMP_GRP&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130919T08:00-0000&amp;version=1</a>
RTPD_MPM_LMP_GRP	<a href="http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTPD_MPM_LMP_GRP&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130919T08:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTPD_MPM_LMP_GRP&amp;startdatetime=20130919T07:00-0000&amp;enddate=20130919T08:00-0000&amp;version=1</a>
DAM_MPM_SD_PRC_GRP	<a href="http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_MPM_SD_PRC_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_MPM_SD_PRC_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1</a>
HASP_MPM_SD_PRC_GRP	<a href="http://oasis.caiso.com/oasisapi/GroupZip?groupid=HASP_MPM_SD_PRC_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/GroupZip?groupid=HASP_MPM_SD_PRC_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1</a>
RTPD_MPM_SD_PRC_GRP	<a href="http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTPD_MPM_SD_PRC_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTPD_MPM_SD_PRC_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1</a>
PUB_CRR_BID_SEASONAL_GRP	<a href="http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_CRR_BID_SEASONAL_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_CRR_BID_SEASONAL_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1</a>
PUB_CRR_BID_MTHLY_GRP	<a href="http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_CRR_BID_MTHLY_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_CRR_BID_MTHLY_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1</a>
AGGR_OUTAGE_SCH	<a href="http://oasis.caiso.com/oasisapi/GroupZip?groupid=AGGR_OUTAGE_SCH_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/GroupZip?groupid=AGGR_OUTAGE_SCH_GRP&amp;startdatetime=20130919T07:00-0000&amp;version=1</a>

Group ID	Example URL for XML Download
GRP	

## 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](http://www.caiso.com/soa/*.xsd). So for the GMT release, the namespaces for the various reports are:

Namespace	Major Version	Minor Version
<a href="http://www.caiso.com/soa/OASISBid_v1.xsd">http://www.caiso.com/soa/OASISBid_v1.xsd</a>	1	20131201
<a href="http://www.caiso.com/soa/OASISCBBid_v1.xsd">http://www.caiso.com/soa/OASISCBBid_v1.xsd</a>	1	20131201
<a href="http://www.caiso.com/soa/OASISCRPublicBid_v1.xsd">http://www.caiso.com/soa/OASISCRPublicBid_v1.xsd</a>	1	20131201
<a href="http://www.caiso.com/soa/OASISMaster_v1.xsd">http://www.caiso.com/soa/OASISMaster_v1.xsd</a>	1	20131201
<a href="http://www.caiso.com/soa/OASISReport_v1.xsd">http://www.caiso.com/soa/OASISReport_v1.xsd</a>	1	20140401

## 10. Schema Files Changes

This section contains the summary of the schema changes involved in the Spring 2014/FERC764 release.

Schema File Name	Change Description
OASISReport_v1.xsd	1. Added PRC_RTPD_LMP in OASISReportType enumeration 2. Added MKT_XFER_CAP_MW in OASISDataItems enumeration 3. Updated minor version of XSD to 20140401 4. Added SYS_FCST_15MIN_MW in OASISDataItems enumeration 5. Added RENEW_FCST_5MIN_MW and RENEW_FCST_15MIN_MW in OASISDataItems enumeration
OASISBid_v1.xsd	No changes
OASISCBBid_v1.xsd	No changes
OASISMaster_v1.xsd	No changes
OASISCRPublicBid_v1.xsd	No changes

## 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

[http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE\\_CB\\_CLR\\_AWARDS&startdatetime=20130310T08:00-0000&enddatetime=20130311T07:00-0000&version=1](http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_CB_CLR_AWARDS&startdatetime=20130310T08:00-0000&enddatetime=20130311T07:00-0000&version=1)

### Long day

[http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE\\_CB\\_CLR\\_AWARDS&startdatetime=20131103T07:00-0000&enddatetime=20131104T08:00-0000&version=1](http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_CB_CLR_AWARDS&startdatetime=20131103T07:00-0000&enddatetime=20131104T08:00-0000&version=1)