Interface Specification for OASIS
(Spring  Independent  2015 Release)

Version: 4.2.5
02/18/2015
## Revision History

<table>
<thead>
<tr>
<th>Date</th>
<th>Version</th>
<th>Description</th>
<th>Author</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sep 23, 2013</td>
<td>4.0.0</td>
<td>Initial release of GMT 2013 services to Market Participants. Pre-GMT tech specs and its 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></td>
<td>AM, EC</td>
</tr>
<tr>
<td>Oct 24, 2013</td>
<td>4.0.1</td>
<td>Minor corrections and updates</td>
<td>AM</td>
</tr>
<tr>
<td>Nov 26, 2013</td>
<td>4.0.2</td>
<td>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.</td>
<td>AM</td>
</tr>
<tr>
<td>Dec 15, 2013</td>
<td>4.0.3</td>
<td>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</td>
<td>AM</td>
</tr>
<tr>
<td>Jan 22, 2014</td>
<td>4.1.1</td>
<td>Merge FERC764 tech spec changes on top of latest GMT release tech spec. Updated current Transmission usage, Demand forecast, Renewable forecast sections for 15-min interval data.</td>
<td>AM, EC</td>
</tr>
<tr>
<td>Mar 4th, 2014</td>
<td>4.1.2</td>
<td>Renamed query parameter for SLD_FCST to be execution_type instead of exec_type for RTM market_run_id</td>
<td>AM</td>
</tr>
<tr>
<td>Mar 12, 2014</td>
<td>4.1.3</td>
<td>Added additional report query parameters for TRNS_USAGE and TRNS_CURR_USAGE</td>
<td>AM</td>
</tr>
<tr>
<td>Mar 18, 2014</td>
<td>4.2.0</td>
<td>Changes for Fall 2014/EIM release. Added new reports:</td>
<td>AM, EC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- PRC_EIM_GHG – EIM GHG shadow price</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- ENE_EIMTRANSFER_LIMITS – EIM Transfer limits</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- ENE_EIMTRANSFER_EIM Transfer</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- ENE_EIM_DYN_NSI – EIM BAA Dynamic NSI</td>
<td></td>
</tr>
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<td></td>
<td>- ENE_BASE_NSI – BAA Base NSI</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>Updated reports:</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- PRC_FLEX_RAMP_CURR and PRC_FLEX_RAMP for new baa_grp_id attribute</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- PRC_CNSTR, PRC_RTM_FLOWGATE, PRC_CD_RTM_FLOWGATE.</td>
<td></td>
</tr>
<tr>
<td>Date</td>
<td>Version</td>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>------------</td>
<td>---------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>Jun 30, 2014</td>
<td>4.2.1</td>
<td>PRC_HASP_LMP correction to include GHG LMP component in the output. AM</td>
<td></td>
</tr>
</tbody>
</table>
| Aug 12, 2014 | 4.2.2   | - Removed newly added Constraint type element from the following reports to roll back to previous version v1
- PRC_CNSTR, PRC_RTM_FLOWGATE, PRC_CD_RTM_FLOWGATE,
  PRC_MPM_CNSTR, PRC_MPM_CNSTR_CMP,
  PRC_MPM_RTM_FLOWGATE
- Updated the URLs to add enddatetime element to the following reports
  PRC_FLEX_RAMP
  - Added sample URLs for market_run_id =ALL for the following reports
    ENE_EIM_TRANSFER_LIMITS
    ENE_EIM_TRANSFER
    ENE_EIM_DYN_NSI
- Removed non-existent report
  PRC_FLEX_RAMP_CURR from the document. AJ, EC |
| Dec 04, 2014 | 4.2.3   | Add new reports for the January 2015 release:
  Major version=3, Minor version=20150101
  - PRC_SPTIE_LMP - Scheduling Point Tie Combination Locational Marginal Prices (LMP)
  - PRC_CD_SPTIE_LMP - Contingency Dispatch Scheduling Point Tie Combination Locational Marginal Prices (LMP)
  Per Fall Release 2014 EIM, added version 2 sample URLs for the following reports: PRC_INTVL_LMP. HX, EC |
<table>
<thead>
<tr>
<th>Date</th>
<th>Version</th>
<th>Changes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dec 19, 2014</td>
<td>4.2.4</td>
<td>• Removed the HASP market sample URLs for the new report PRC_SPTIE_LMP</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Corrected the version # for the group report URLs: DAM_SPTIE_LMP_GRP, RTPD_SPTIE_LMP_GRP,</td>
</tr>
<tr>
<td></td>
<td></td>
<td>RTD_SPTIE_LMP_GRP – should be version 3</td>
</tr>
<tr>
<td>Feb 18, 2015</td>
<td>4.2.5</td>
<td>• Updated CB Public Bids to add new Flowgate field (PUB_CB_BID)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Update CB Reference Prices to add new TIE_NAME field (PRC_DS_REF)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Add new report ATL_CBNODE</td>
</tr>
<tr>
<td>Mar 12, 2015</td>
<td>4.2.6</td>
<td>• Updated occurrences of &quot;Spring 2015&quot; to &quot;Independent 2015&quot; release in the document</td>
</tr>
</tbody>
</table>
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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:

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OASIS Data</td>
<td>This is the CAISO operational and market data.</td>
</tr>
<tr>
<td>Public Bids</td>
<td>This is the Public Bid data published after 90 days.</td>
</tr>
<tr>
<td>Atlas Data</td>
<td>This is the reference data supporting OASIS Data.</td>
</tr>
</tbody>
</table>

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](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.

```
URL?queryname=ISO&startdatetime=20150210T100000Z&enddatetime=20150210T110000Z&market_run_id=1&version=1&varParameters
```
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:

```
startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-
0000&market_run_id=DAM&version=1&as_type=ALL&as_region=ALL
```

2.2. API URL for Group Reports

The group reports depend 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)
- **version** = API version (1 for the GMT 2013 release) (Only applicable for HASP,RTM groups)

2.2.1 Example URL

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

<table>
<thead>
<tr>
<th>XSD</th>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OASISReport_v1.xsd</td>
<td>OASIS Data</td>
<td>This is the primary schema by which OASIS returns operational and market data.</td>
</tr>
<tr>
<td>OASISReport_v2.xsd</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OASISReport_v3.xsd</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OASISBid_v1.xsd</td>
<td>Public Bids</td>
<td>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.</td>
</tr>
<tr>
<td>OASISCBBid_v1.xsd</td>
<td>Public CB Bids</td>
<td>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.</td>
</tr>
<tr>
<td>OASISCBBid_v2.xsd (*)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OASISMaster_v1.xsd</td>
<td>Atlas Data</td>
<td>This schema is tailored to the Atlas / Reference data portion of OASIS.</td>
</tr>
<tr>
<td>OASISMaster_v2.xsd (*)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
OASIS returns CRR Bid data by this schema. This schema is a derivative of the CRR bid schema.

Note: * updated XSD for SpringIndependent 2015 Release.

### 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=6 will extract the data in CSV format. If resultformat= element is not in the URL string, the default format will be XML.

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

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

- AGGR_OUTAGE_SCH
- AS_MILEAGE_CALC
- AS_MILEAGE
- AS_REQ
- AS_RESULTS
- ATL_LDF
- ATL_PEAK_ON_OFF
- CB_NODAL_LIMITS
- CMMT_RA_MLC
- CMMT_RMR
- ENE_CB_AWARDS
- ENE_CB_CLR_AWARDS
- ENE_CB_MKT_SUM
- ENE_DISP
- ENE_EA
- ENE_LOSS
- ENE_MPM
- ENE_SLRS
- PRC_AS
- PRC_CD_INTVL_LMP
- PRC_CD_RTM_FLOWGATE
- PRC_CD_RTM_NOMOGRAM
- PRC_CNSTR
- PRC_CURR_HUB_LMP
- PRC_FLEX_RAMP
- PRC_FUEL
- PRC_GHG.Allowance
- PRC_HASP_LMP
- PRC_INTVL_AS
- PRC_INTVL_LMP
- PRC_LMP
- PRC_MPM_CNSTR_CMP
- PRC_MPM_CNSTR
- PRC_MPM_LMP
- PRC_MPM_NOMOGRAM_CMP
- PRC_MPM_NOMOGRAM
- PRC_MPM_REF_BUS
- PRC_MPM_RTM_FLOWGATE_CMP
- PRC_MPM_RTM_FLOWGATE
- PRC_MPM_RTM_LMP
- PRC_MPM_RTM_NOMOGRAM_CMP
- PRC_MPM_RTM_NOMOGRAM
- PRC_MPM_RTM_REF_BUS
- PRC_NOMOGRAM
• PRC_RTM_FLOWGATE
• PRC_RTM_NOMOGRAM
• PUB_CURR_LMP
• SLD_FCST
• SLD_REN_FCST
• TRNS_ATC
• TRNS_CURR_USAGE
• TRNS_USAGE

3.2 Errors

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

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Error Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000</td>
<td>No data returned for the specified selection.</td>
</tr>
<tr>
<td>1001</td>
<td>Invalid Parameters of the given report name.</td>
</tr>
<tr>
<td>1002</td>
<td>Invalid datetime format, please use valid datetime format.</td>
</tr>
<tr>
<td>1003</td>
<td>Timed out waiting for query response.</td>
</tr>
<tr>
<td>1004</td>
<td>Data can be requested for period of 31 days only.</td>
</tr>
<tr>
<td>1005</td>
<td>Report name does not exist, please use valid report name.</td>
</tr>
<tr>
<td>1006</td>
<td>Validation exception during transformation of XML.</td>
</tr>
<tr>
<td>1007</td>
<td>Required file for does not exist.</td>
</tr>
<tr>
<td>1008</td>
<td>Out of memory exception.</td>
</tr>
<tr>
<td>1009</td>
<td>Exceptions in reading and writing of XML files.</td>
</tr>
<tr>
<td>1010</td>
<td>System Error.</td>
</tr>
<tr>
<td>1011</td>
<td>Empty Query; Please Enter Report Name, Startdate, EndDate and Other Parameters.</td>
</tr>
<tr>
<td>1012</td>
<td>Connection refused.</td>
</tr>
</tbody>
</table>
1013 Required Resources (xslt or xml or dir) Unavailable.
1014 Start Date is beyond the limit, Please Use valid Start Date that falls within the prescribed limit.
1015 GroupZip DownLoad is in Processing, Please Submit request after Sometime
1016 GROUPID Does Not Exist, Please Use Valid GROUPID Name
1017 Please select a maximum of 10 nodes or use the ALL option
1018 Invalid Selection, cannot select multiple hours for this query
1019 market_term=ALL not supported for this query
1020 Version parameter is missing or is invalid

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

5. Reports and Xml Data Items
This section contains an overview listing of the individual types of result sets returned from OASIS, corresponding to the online OASIS reports.

<table>
<thead>
<tr>
<th>Report/ResultSet</th>
<th>XML Name</th>
<th>XML Data Items</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRICES</td>
<td>PRC_LMP</td>
<td>LMP_CONG_PRC</td>
<td>LMP - Congestion Component;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LMP_ENE_PRC</td>
<td>LMP - Energy Component;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LMP_LOSS_PRC</td>
<td>LMP - Losses Component;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LMP_PRC</td>
<td>LMP for each Prod and APnode;</td>
</tr>
<tr>
<td></td>
<td>PRC_SPTIE_LMP</td>
<td>LMP_CONG_PRC</td>
<td>LMP - Congestion Component;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LMP_PRC</td>
<td>LMP for each node tie combination;</td>
</tr>
<tr>
<td>HASP Locational Marginal Prices (LMP)</td>
<td>PRC_HASP_LMP</td>
<td>LMP_CONG_PRC</td>
<td>LMP - Congestion Component;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LMP_ENE_PRC</td>
<td>LMP - Energy Component;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LMP_LOSS_PRC</td>
<td>LMP - Losses Component;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LMP_PRC</td>
<td>LMP for each Prod and APnode;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LMP_GHG_PRC</td>
<td>GHG price for E/M pnode and apnode;</td>
</tr>
</tbody>
</table>
### Report/ResultSet

<table>
<thead>
<tr>
<th>XML Name</th>
<th>XML Data Items</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Hourly Pre-Dispatch Resources.</strong>&lt;br&gt;For HASP, SC's should always utilize the CMRI posted price as the valid price for shadow-settlement purposes.</td>
<td></td>
<td></td>
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</tbody>
</table>

| **RTPD Locational Marginal Prices (LMP)**<br>15-minute Locational Marginal Prices for all PNodes and APNodes in $/MWh. | PRC_RTPD_LMP | LMP_CONG_PRC, LMP_ENE_PRC, LMP_LOSS_PRC, LMP_PRC, LMP_GHG_PRC | LMP - Congestion Component; LMP - Energy Component; LMP - Losses Component; LMP for each PNode and APNode; GHG price for EIM pnode and apnode |

| **Interval Locational Marginal Prices (LMP)**<br>Five-minute Locational Marginal Prices for all PNodes and all APNodes in $/MWh, for each five-minute interval RTM. Posts the LMP, plus the Congestion, Loss and Energy Components that makes up the LMP. Node on the report will include Pnodes and APnodes in ISO, EIM and non-EIM external networks. | PRC_INTVL_LMP | LMP_CONG_PRC, LMP_ENE_PRC, LMP_LOSS_PRC, LMP_PRC, LMP_GHG_PRC | LMP - Congestion Component; LMP - Energy Component; LMP - Losses Component; LMP for each PNode and APNode; GHG price for EIM pnode and apnode |

| **AS Clearing Prices**<br>Ancillary Services Regional Shadow Prices for all Ancillary Service types at each AS Region and Sub-Regional Partition. Posted hourly in $/MW for the DAM and HASP. | PRC_AS | NS_CLR_PRC, RD_CLR_PRC, RU_CLR_PRC, SP_CLR_PRC, RMD_CLR_PRC, RMU_CLR_PRC | NonSpin Cleared Price; Regulation Down Cleared Price; Regulation Up Cleared Price; Spin Cleared Price; Regulation Mileage Down Cleared Price; Regulation Mileage Up Cleared Price. |

| **Interval AS Clearing Prices**<br>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; Regulation Down Cleared Price; Regulation Up Cleared Price; Spin Cleared Price; Regulation Mileage Down Cleared Price; Regulation Mileage Up Cleared Price. |

<p>| <strong>Intertie Constraint Shadow Prices</strong>&lt;br&gt;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, REASON | Shadow price by Transmission Interface and Intertie Constraint; Will indicate either “Base Case” or specific Contingency ID. |</p>
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<th>Report/ResultSet</th>
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<td>Current Locational Marginal Price</td>
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<td>LMP - Congestion Component;</td>
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<td>LMP_ENE_PRC</td>
<td>LMP - Energy Component;</td>
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<td>LMP_LOSS_PRC</td>
<td>LMP - Losses Component;</td>
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<td></td>
<td>LMP_PRC</td>
<td>LMP for each Pnode and ANode;</td>
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<td>LMP_GHG_PRC</td>
<td>GHG price for EIM pnode and aNode;</td>
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<td>Nomogram/Branch Shadow Prices</td>
<td>PRC_NOMOGRAM</td>
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<td>Shadow price by Nomogram or Branch.</td>
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<td>Interval Nomogram/Branch Shadow Prices</td>
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<td>Shadow price by Nomogram or Branch.</td>
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<td>Interval Intertie Constraint Shadow Prices</td>
<td>PRC_RTM_FLOWGATE</td>
<td>SHADOW_PRC</td>
<td>Shadow price by Transmission Interface and Intertie Constraint</td>
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<td>Reference Prices</td>
<td>PRC_DS_REF</td>
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<td>Supply Component</td>
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<td>DMD_PRC</td>
<td>Demand Component</td>
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<td>Name of the TIE</td>
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<td>Nodal Group Constraints</td>
<td>CB_NODAL_GRP_CNSTR_PRC</td>
<td>SHADOW_PRC</td>
<td>Shadow price by Nodal Constraint Group</td>
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<td>Cleaned MW value</td>
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<td>Maximum Limit of the Price</td>
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<td>MINIMUM_LIMIT</td>
<td>Minimum Limit of the Price</td>
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<td>System Ramping Nomogram Results</td>
<td>PRC_FLEX_RAMP</td>
<td>MKT_RUN START TIME</td>
<td>Indicates the start time of the market run in Pacific Time format</td>
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<td>An identifier which specifies the market run type (DAM, RTPD &amp; RTD)</td>
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<td>RAMP_UP_CAP_REQ</td>
<td>Upward ramping capacity nomogram results</td>
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<td>RAMP_UP_SHADOW_PRC</td>
<td>Shadow price of the upward ramping nomogram results</td>
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<td>RAMP_DOWN_CAP_REQ</td>
<td>Downward ramping capacity nomogram results</td>
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<td>RAMP_DOWN_SHADOW_PRC</td>
<td>Shadow price of the downward nomogram results</td>
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<td>BAA_GRP_ID</td>
<td>EIM Area group ids (ISO, PACE, PACW, ISO_PACW, ISO_PACE, PACW_ISO_PACW_PACE)</td>
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<tr>
<td>Contingency Dispatch Locational Marginal Prices</td>
<td>PRC_CD_INTVL_LMP</td>
<td>LMP_CONG_PRC</td>
<td>LMP Marginal Cost of Congestion for ten-minute Contingency Dispatch</td>
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<tr>
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<td>LMP_ENE_PRC</td>
<td>LMP Marginal Cost of Energy for ten-minute Contingency Dispatch.</td>
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<tr>
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<td>LMP_LOSS_PRC</td>
<td>LMP Marginal Cost of Losses for ten-minute Contingency Dispatch.</td>
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<tr>
<td>Report/ResultSet</td>
<td>XML Name</td>
<td>XML Data Items</td>
<td>Description</td>
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<tr>
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</tr>
<tr>
<td>Contingency Dispatch Scheduling Point Tie Combination Locational Marginal Prices</td>
<td><strong>PRC_CD_SP_TIE_LMP</strong></td>
<td><strong>LMP_CONG_PRC</strong></td>
<td>LMP - Congestion Component; LMP for each node tie combination;</td>
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<td><strong>LMP_PRC</strong></td>
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<td>This is for Real Time Contingency Dispatch (RTCD) runs. Posts the ten-minute Locational Marginal Prices for node tie in $/MWh, for each ten-minute interval RTCD.</td>
</tr>
<tr>
<td>Contingency Dispatch Intertie Constraint Shadow Prices</td>
<td><strong>PRC_CD_RTM_FL owgate</strong></td>
<td><strong>SHADOW_PRC</strong></td>
<td>Shadow price by Transmission Interface and Intertie Constraint for ten-minute Contingency Dispatch.</td>
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<td><strong>REASON</strong></td>
<td>Will indicate either “Base Case” or specific Contingency ID.</td>
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<tr>
<td>Contingency Dispatch Nomogram/Branch Shadow Prices</td>
<td><strong>PRC_CD_RTM_NOMOGRAM</strong></td>
<td><strong>SHADOW_PRC</strong></td>
<td>Shadow price by Nomogram or Branch for ten-minute Contingency Dispatch.</td>
</tr>
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<td><strong>REASON</strong></td>
<td>Will indicate either “Base Case” or specific Contingency ID.</td>
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<tr>
<td>MPM DA Locational Marginal Prices (LMP):</td>
<td><strong>PRC_MPM_LMP</strong></td>
<td><strong>LMP_PRC</strong></td>
<td>LMP for each node</td>
</tr>
</tbody>
</table>

Interface Specification for OASIS  
Ver: 4.2.5, Date: 02/18/2015
## Interface Specification for OASIS

**Version:** 4.2.5  **Date:** 02/18/2015

### Report/ResultSet

<table>
<thead>
<tr>
<th>Report/ResultSet</th>
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<tbody>
<tr>
<td>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.</td>
<td>LMP_CONG_CC_PRC</td>
<td>LMP - Competitive Congestion Component</td>
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<tr>
<td></td>
<td>LMP_CONG_NC_PRC</td>
<td>LMP - Non-Competitive Congestion Component</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LMP_ENE_PRC</td>
<td>LMP - Energy Component</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LMP_LOSS_PRC</td>
<td>LMP - Losses Component</td>
<td></td>
</tr>
<tr>
<td>MPM RT Locational Marginal Prices (LMP):</td>
<td>PRC_MPM_RTM_LMP</td>
<td>LMP for each node</td>
<td></td>
</tr>
<tr>
<td>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.</td>
<td>LMP_PRC</td>
<td>LMP - Competitive Congestion Component</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LMP_CONG_CC_PRC</td>
<td>LMP - Non-Competitive Congestion Component</td>
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<td></td>
<td>LMP_CONG_NC_PRC</td>
<td>LMP - Energy Component</td>
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<td></td>
<td>LMP_ENE_PRC</td>
<td>LMP - Energy Component</td>
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<tr>
<td></td>
<td>LMP_LOSS_PRC</td>
<td>LMP - Losses Component</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LMP_GHG_PRC</td>
<td>LMP - GHG Component</td>
<td></td>
</tr>
<tr>
<td>MPM Nomogram/Branch Shadow Prices (DAM):</td>
<td>PRC_MPM_NOMOGRAM_SHADOW_PRC</td>
<td>Shadow price by Nomogram or Branch.</td>
<td></td>
</tr>
<tr>
<td>Post 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.</td>
<td>SHADOW_PRC</td>
<td>Will indicate either “Base Case” or specific Contingency ID.</td>
<td></td>
</tr>
<tr>
<td>MPM Nomogram/Branch Shadow Prices (RTM):</td>
<td>PRC_MPM_RTM_NOMOGRAM_SHADOW_PRC</td>
<td>Shadow price by Nomogram or Branch.</td>
<td></td>
</tr>
<tr>
<td>Post hourly, 4 15-minute interval constraint pricing at each binding Nomogram and Branch, for HASP MPM run in $/MWh OR Post 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.</td>
<td>SHADOW_PRC</td>
<td>Will indicate either “Base Case” or specific Contingency ID.</td>
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<tr>
<td>MPM Nomogram/Branch Competitive Paths (DAM):</td>
<td>PRC_MPM_NOMOGRAM_CMP_MPMP_CMP_STATUS_FLG</td>
<td>Competitive Path Indicator Y/N</td>
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<tr>
<td>Post the hourly results of the dynamic</td>
<td>CMP_STATUS_FLG</td>
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<table>
<thead>
<tr>
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<td>Report/ResultSet</td>
<td>XML Name</td>
<td>XML Data Items</td>
<td>Description</td>
</tr>
</tbody>
</table>

### MPM Nomogram/Branch Competitive Paths (RTM):
- Posts the hourly 4 15-minute interval results of the dynamic competitiveness constraint for the HASP MPM run for nomograms and flowgates.
- Posts a flag indicating whether each binding constraint was competitive or not.
- OR
- Posts every 15 minutes, the 15-minute interval results of the dynamic competitiveness constraint for the RTPD MPM run for nomograms and flowgates. Posts a flag indicating whether each binding constraint was competitive or not.

- **Report/ResultSet**
- **XML Name**
- **XML Data Items**
- **Description**

### MPM Intertie Constraint Shadow Prices (DAM):
- Posts the hourly constraint pricing at Transmission Interfaces and Intertie Constraints, for Day Ahead market MPM run in $/MWh. Report will also include an indication of whether the Constraints were binding because of the base operating conditions or contingencies, and if caused by a Contingency, the identity of the specific Contingency.
- OR
- For HASP MPM run, posted hourly the 4 15-minute interval results.
- OR
- For RTPD MPM run, posted every 15 minutes, the 15 minute interval results

### MPM Intertie Constraint Competitive Paths (DAM):
- OR
- Posts the results of the dynamic
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<th>Description</th>
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<td>PRC_MPM</td>
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<td>MPM Reference Bus (RTM)</td>
<td>PRC_MPM_RTM_REF_BUS</td>
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<td>Greenhouse Gas Allowance Price</td>
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<td>AS_IMPORT_MW</td>
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<td>Current Hourly/15-min Tagged Net Energy from Imports / Exports;</td>
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<td>Forced Topology outages</td>
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<td>TRM_SPI_MW</td>
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<td>Simultaneous Path Interaction</td>
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<td>ATC_MW</td>
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<td>TRNS_USAGE</td>
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<td>DAM Hourly or HASP 15-minute or RTPD 15-minute ATC; DAM Hourly or HASP 15-minute or RTPD 15-minute 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;</td>
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<td>TRNS_USAGE</td>
<td>ATC_MW, AS_IMPORT_MW, ENE_IMPORT_MW, CBM_MW, OTC_MW, TTC_MW, CONSTRAINT_MW</td>
<td>DAM Hourly or HASP 15-minute or RTPD 15-minute ATC; DAM Hourly or HASP 15-minute or RTPD 15-minute 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;</td>
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### Interface Specification for OASIS

**Report/ResultSet**

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<td>DAM Hourly or HASP 15-minute or RTPD 15-minute Unused TR Capacity</td>
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<td>TRM_MW</td>
<td>Total TRM</td>
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<td>TRM_UF_MW</td>
<td>Unscheduled Flow</td>
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<tr>
<td>TRM_SPI_MW</td>
<td>Simultaneous Path Interaction</td>
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</tr>
</tbody>
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### SYSTEM DEMAND

**CAISO Peak Demand Forecast**
- Peak Demand Forecast per CAISO control area total. Posting begins at 7 days before Trading Day. Also posts Peak Demand Forecast by TAC Area.

<table>
<thead>
<tr>
<th>XML Name</th>
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<tbody>
<tr>
<td>SLD_FCST_PEAK</td>
<td>SLD_FCST_SYS_FCST_PEAK_MW The forecast peak demand in MW for the Forecast Day.</td>
</tr>
</tbody>
</table>

**CAISO Demand Forecast**
- Daily posting for the 2-DA, 7-DA hourly forecast, DAM hourly forecast by TAC area.

<table>
<thead>
<tr>
<th>XML Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SLD_FCST</td>
<td>SLD_FCST_SYS_FCST_ACT_MW The actual demand measurement by Hourly basis</td>
</tr>
<tr>
<td>SLD_FCST_2DA</td>
<td>SLD_FCST_SYS_FCST_2DA_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;</td>
</tr>
<tr>
<td>SLD_FCST_7DA</td>
<td>SLD_FCST_SYS_FCST_7DA_MW The forecast MW demand for each hour of the Operating Day, posted two days before the Operating day;</td>
</tr>
<tr>
<td>SLD_FCST_15MIN</td>
<td>SLD_FCST_SYS_FCST_15MIN_MW The forecast MW demand for 15 minutes intervals</td>
</tr>
</tbody>
</table>

**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.
## Wind and Solar Forecast

Forecast and actual wind and solar generation by hour. Aggregated by trading hub (NP15, ZP26, and SP15). Day-Ahead forecast is posted daily in advance of the Day-Ahead Market. Hour-Ahead forecast is posted in advance of each HASP market. RTPD forecast is posted in advance of each RTPD market run by 15-minute intervals. RTD forecast is posted in advance of each RTD run by 5-minute intervals. Actual production is posted the day after the operating day. Note: to ensure a high level of accuracy only Eligible Intermittent Resources (EIR), including those that participate in the Participating Intermittent Resource program (PIRP) are included in the report.

<table>
<thead>
<tr>
<th>Report/ResultSet</th>
<th>XML Name</th>
<th>XML Data Items</th>
<th>Description</th>
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<tr>
<td>Wind and Solar Forecast</td>
<td>SLD_REN_FCST</td>
<td>RENEW_FCST_DA_MW, RENEW_FCST_HASP_MW, RENEW_FCST_ACT_MW, RENEW_FCST_5MIN_MW, RENEW_FCST_15MIN_MW</td>
<td>The forecast MW value for each hour of the Operating Day, posted in the morning the day before the each markets run</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TRADING_HUB</td>
<td>The trading hub name. Valid values are NP15, SP15, ZP26 and ALL</td>
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<tr>
<td></td>
<td></td>
<td>RENEWABLE_TYPE</td>
<td>Renewable Type include one of the following: “Wind” (Include: Wind PIRP &amp; EIR resources), “Solar” (Include: Solar PIRP &amp; EIR resources).</td>
</tr>
</tbody>
</table>

## ENERGY

### System Load and Resource Schedules

Balanced System Load, Generation, Import and Export per TAC Area, and for CAISO total. Posts results for DAM, RUC Capacity, HASP and 5-Minute RTM, as indicated below:

- **DAM** Load, Generation, Import and Export Schedules per TAC Area and CAISO total for each Operating Hour, in MW.
- **RUC** Capacity from Generation and Imports for each TAC Area and CAISO total for each Operating Hour, in MW.
- Hour-Ahead Scheduling Process (HASP) Import and Export per TAC Area and CAISO total, in MW.
- 5 minute RTM Generation, Import and Export per TAC Area and CAISO total, in MW.

<table>
<thead>
<tr>
<th>Report/ResultSet</th>
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<th>Description</th>
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<td></td>
<td></td>
<td>ISO_TOT_LOAD_MW</td>
<td>ISO Total MW cleared as Demand in DAM, HASP, RTM.</td>
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<td></td>
<td>ISO_TOT_IMP_MW</td>
<td>ISO Total MW cleared as Imports in DAM, RUC, HASP, RTM.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ISO_TOT_EXP_MW</td>
<td>ISO Total MW cleared as Exports in DAM, HASP, RTM.</td>
</tr>
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<td></td>
<td>TOT_GEN_MW</td>
<td>Total MW cleared as Generation in DAM, RUC, HASP, RTM, by TAC Area.</td>
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<td></td>
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<td>TOT_LOAD_MW</td>
<td>ISO Total MW cleared as Demand in DAM, HASP, RTM, by TAC Area.</td>
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<td></td>
<td>TOT_IMP_MW</td>
<td>ISO Total MW cleared as Imports in DAM, RUC, HASP, RTM, by TAC Area.</td>
</tr>
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<td></td>
<td></td>
<td>TOT_GEN_MW</td>
<td>ISO Total MW cleared as Exports in DAM, HASP, RTM, by TAC Area.</td>
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### Expected Energy

After-the-Fact Energy Accounting, per Energy Type. Posted daily at T+1, in MWh for ISO total.

<table>
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<tr>
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<th>XML Name</th>
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<td>Report/ResultSet</td>
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</tr>
<tr>
<td>Please refer to the table in the BPM for Market Operations, Appendix C.4 for the complete list of valid Expected Energy Types.</td>
<td>EDE_MWH</td>
<td>Exceptional Dispatch Energy</td>
<td></td>
</tr>
<tr>
<td></td>
<td>RMRE_MWH</td>
<td>RMR Energy</td>
<td></td>
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<tr>
<td></td>
<td>MSSLE_MWH</td>
<td>MSS Load Following Energy</td>
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<tr>
<td></td>
<td>RE_MWH</td>
<td>Residual Energy</td>
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<tr>
<td></td>
<td>MLE_MWH</td>
<td>Minimum Load Energy</td>
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<tr>
<td></td>
<td>SE_MWH</td>
<td>SLIC Energy</td>
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</tr>
<tr>
<td></td>
<td>RTSSE_MWH</td>
<td>RT Self Scheduled Energy</td>
<td></td>
</tr>
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<td></td>
<td>DMLE_MWH</td>
<td>DA Minimum Load Energy</td>
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<tr>
<td></td>
<td>PE_MWH</td>
<td>Pumping Energy</td>
<td></td>
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<tr>
<td></td>
<td>TEE_MWH</td>
<td>Total Expected Energy</td>
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</tr>
<tr>
<td></td>
<td>BASE_MWH</td>
<td>Base Schedule Energy</td>
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<tr>
<td></td>
<td>MDE_MWH</td>
<td>EIM Manual Dispatch Energy</td>
<td></td>
</tr>
<tr>
<td>Market Power Mitigation Status</td>
<td>ENE_MPM</td>
<td>Market Power Mitigation Status</td>
<td>Mitigation Indicator showing whether any bids were replaced by Reference Curves. Value will be “Y” or “N”.</td>
</tr>
<tr>
<td></td>
<td>BAA_ID</td>
<td></td>
<td>One of more EIM BAA ID</td>
</tr>
<tr>
<td>Pre-Dispatched and MPM Determined RMR capacity (MW) summed for all resources, for the DAM and RTM market processes.</td>
<td>CMMT_RMR</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>DISPATCH_MW</td>
<td></td>
<td>The RMR capacity dispatched ahead of the Market.</td>
</tr>
<tr>
<td></td>
<td>TOT_AVAIL_MW</td>
<td></td>
<td>Total RMR capacity available to the market in that hour.</td>
</tr>
<tr>
<td></td>
<td>DETER_MW</td>
<td></td>
<td>RMR capacity determined by MPM before market run.</td>
</tr>
<tr>
<td>Exceptional Dispatch</td>
<td>ENE_DISP</td>
<td>Exceptional Dispatch Summary of Exceptional Dispatch Data. Posted daily at T+1, in MWh by TAC area and Instruction Type. Please refer to the table in the BPM for Market Operations, Appendix C.4 for the complete list of valid Exceptional Dispatch Instruction Types.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>EXPT_DIS_PRC</td>
<td>Exceptional Dispatch Price</td>
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<tr>
<td></td>
<td>EXPT_DIS_MWH</td>
<td>Exceptional Dispatch MW</td>
<td></td>
</tr>
<tr>
<td>Marginal Losses</td>
<td>ENE_LOSS</td>
<td>CAISO Total Marginal Loss costs ($) and Total System losses (MWh). Posted hourly for the DAM and HASP.</td>
<td></td>
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<tr>
<td></td>
<td>TOT_LOSS_PRC</td>
<td>Total costs incurred due to Losses in this hour/interval.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TOT_LOSS_MW</td>
<td>Total MWh lost</td>
<td></td>
</tr>
<tr>
<td>Resource Adequacy and Minimum Load</td>
<td>CMMT_RA_MLC</td>
<td>Commitment data for each market. All data for all markets posted daily at T+1. All commitment data is related to ISO committed resources.</td>
<td></td>
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<tr>
<td></td>
<td>RA_CAPACITY_COMMITTED_MW</td>
<td>RA Capacity Committed</td>
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<tr>
<td></td>
<td>MIN_LD_MW</td>
<td>Minimum Load</td>
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<td></td>
<td>RA_MIN_LD_COST_MLC</td>
<td>RA Minimum Load Cost (MLC)</td>
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<tr>
<td></td>
<td>MIN_LD_MLC_PRC</td>
<td>Minimum Load cost</td>
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<tr>
<td></td>
<td>TOT_START_CST_PRC</td>
<td>Total Start Up Cost</td>
<td></td>
</tr>
<tr>
<td></td>
<td>RA_START_CST</td>
<td>RA Start-Up Cost</td>
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</tr>
<tr>
<td></td>
<td>RA_COMM_UNITS_CNT</td>
<td>RA Number of Units Committed</td>
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</tr>
<tr>
<td></td>
<td>TOT_COMM_UNITS_CNT</td>
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<td></td>
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<td>TOT_COMM_CAP_MW</td>
<td>Total Capacity Committed</td>
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<td>XML Data Items</td>
<td>Description</td>
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</tr>
<tr>
<td>Convergence Bidding Aggregate Awards</td>
<td>ENE_CB_AWARDS</td>
<td>ISO_TOT_SPLY_MW</td>
<td>Supply Component</td>
</tr>
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<td></td>
<td>ISO_TOT_DMD_MW</td>
<td>Demand Component</td>
</tr>
<tr>
<td>Net Cleared Convergence Bidding Awards</td>
<td>ENE_CB_CLR_AWARDS</td>
<td>ENE_CB_CLR_MW</td>
<td>Cleared MW</td>
</tr>
<tr>
<td>Day Ahead Market Summary</td>
<td>ENE_CB_MKT_SUM</td>
<td>DMD_SLF_ENE_SUB_MW</td>
<td>Sum of demand self schedule energy bids submitted for all internal resources for a specific trade date in the day ahead market</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DMD_SLF_ENE_CLR_MW</td>
<td>Sum of demand self schedule energy bids awarded (cleared) for all internal resources for a specific trade date in the day ahead market</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DMD_SLF_CLR_CST</td>
<td>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</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DMD_ENE_SUB_MW</td>
<td>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</td>
</tr>
<tr>
<td>Report/ResultSet</td>
<td>XML Name</td>
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</tr>
<tr>
<td></td>
<td>DMD_ENE_SUB_CST</td>
<td>calculation</td>
<td>Sum of dollars associated with demand economic energy submitted for all internal resources for a specific trade date in the day ahead market. All the MW/price pair values in each price curve will be included in this calculation.</td>
</tr>
<tr>
<td></td>
<td>DMD_ENE_CLR_MW</td>
<td></td>
<td>Sum of demand economic energy bids awarded (cleared) for all internal resources for a specific trade date in the day ahead market.</td>
</tr>
<tr>
<td></td>
<td>DMD_ENE_CLR_CST</td>
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<td>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.</td>
</tr>
<tr>
<td></td>
<td>DMD_VIR_ENE_SUB_MW</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td>DMD_VIR_SUB_CST</td>
<td></td>
<td>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/price pair values in each price curve will be included in this calculation.</td>
</tr>
<tr>
<td></td>
<td>DMD_VIR_ENE_CLR_MW</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td>DMD_VIR_CLR_CST</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td>DMD_TOT_ENE_SUB_MW</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>Report/ResultSet</td>
<td>XML Name</td>
<td>XML Data Items</td>
<td>Description</td>
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<tr>
<td></td>
<td>DMD_TOT_SUB_CST</td>
<td>ahead market</td>
<td>Sum of dollars associated with demand self schedule energy bids submitted, demand economic energy bids submitted, demand virtual bids submitted for all internal resources (and nodes) for a specific trade date in the day ahead market.</td>
</tr>
<tr>
<td></td>
<td>DMD_TOT_ENE_CLR_MW</td>
<td>ahead market</td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td>DMD_TOT_CLR_CST</td>
<td>ahead market</td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td>SPLY_ENE_SUB_MW</td>
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<td>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.</td>
</tr>
<tr>
<td></td>
<td>SPLY_ENE_SUB_CST</td>
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<td>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.</td>
</tr>
<tr>
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<td>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.</td>
</tr>
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<tr>
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<td>SPLY_SLF_ENE_SUB_MW</td>
<td>Sum of supply self schedule energy bids submitted for all internal resources for a specific trade date in the day ahead market</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SPLY_SLF_ENE_CLR_MW</td>
<td>Sum of supply self schedule energy bids awarded (cleared) for all internal resources for a specific trade date in the day ahead market</td>
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<td></td>
<td>SPLY_SLF_CLR_CST</td>
<td>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</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SPLY_VIR_ENE_SUB_MW</td>
<td>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.</td>
<td></td>
</tr>
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<td></td>
<td>SPLY_VIR_SUB_CST</td>
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<td>SPLY_VIR_ENE_CLR_MW</td>
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<td>SPLY_VIR_CLR_CST</td>
<td>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</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SPLY_TOT_ENE_SUB_MW</td>
<td>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.</td>
<td></td>
</tr>
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<td>SPLY_TOT_SUB_CST</td>
<td>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.</td>
<td></td>
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<td>Report/ResultSet</td>
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<tr>
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<td>SPLY_TOT_ENE_CLR_MW</td>
<td>bids submitted, supply virtual bids submitted for all internal resources (and nodes) for a specific trade date in the day ahead market</td>
<td>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</td>
</tr>
<tr>
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<td>SPLY_TOT_CLR_CST</td>
<td></td>
<td>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</td>
</tr>
<tr>
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<td>EXP_SLF_ENE_SUB_MW</td>
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<td>Sum of Exports self schedule energy bids submitted for a specific trade date in the day ahead market</td>
</tr>
<tr>
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<td>EXP_SLF_ENE_CLR_MW</td>
<td></td>
<td>Sum of Exports self schedule energy bids awarded (cleared) for a specific trade date in the day ahead market</td>
</tr>
<tr>
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<td>EXP_SLF_CLR_CST</td>
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<td>Sum of dollars associated with Exports self schedule energy bids awarded (cleared) 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</td>
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<td>EXP_ENE_SUB_CST</td>
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<td>Sum of Exports economic energy bids awarded (cleared) 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</td>
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<tr>
<td>Report/ResultSet</td>
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<tr>
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<td>EXP_ENE_CLR_CST</td>
<td>Sum of Exports convergence bidding (virtual) energy bids submitted for a specific trade date in the day ahead market. All the MW values in each price curve will be included in this calculation.</td>
<td></td>
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<td>EXP_VIR_ENE_SUB_MW</td>
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<td>Sum of dollars associated with Exports convergence bidding (virtual) energy bids awarded (cleared) for a specific trade date in the day ahead market. Sum of dollars associated with Exports convergence bidding (virtual) energy bids awarded (cleared) for a specific trade date in the day ahead market.</td>
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<td>---------------------------------------------------------------------------------</td>
<td>----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td></td>
<td>IMP_SLF_ENE_SUB_MW</td>
<td>Sum of Imports self schedule energy bids submitted for a specific trade date in the day ahead market.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>IMP_SLF_ENE_CLR_MW</td>
<td>Sum of Imports self schedule energy bids awarded (cleared) for a specific trade date in the day ahead market.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>IMP_SLF_CLR_CST</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>IMP_ENE_SUB_MW</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>IMP_ENE_SUB_CST</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>IMP_ENE_CLR_MW</td>
<td>Sum of Imports physical energy bids awarded (cleared) for a specific trade date in the day ahead market.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>IMP_ENE_CLR_CST</td>
<td>Sum of dollars associated with Imports physical energy bids awarded (cleared) for a specific trade date in the day ahead market.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>IMP_VIR_ENE_SUB_MW</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>IMP_VIR_SUB_CST</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>Report/ResultSet</td>
<td>XML Name</td>
<td>XML Data Items</td>
<td>Description</td>
</tr>
<tr>
<td>------------------</td>
<td>------------</td>
<td>---------------------------------</td>
<td>--------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Convergence Bidding Nodal MW Limits</td>
<td>IMP_VIR_ENE_CLR_MW</td>
<td>Sum of Imports convergence bidding (virtual) energy bids awarded (cleared) for a specific trade date in the day ahead market.</td>
<td>Values in each price curve will be included in this calculation.</td>
</tr>
<tr>
<td></td>
<td>IMP_VIR_CLR_CST</td>
<td>Sum of dollars associated with Imports convergence bidding (virtual) energy bids awarded (cleared) for a specific trade date in the day ahead market.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>IMP_TOT_ENE_CLR_MW</td>
<td>Sum of Imports economic energy bids submitted, Imports virtual bids submitted (and nodes) for a specific trade date in the day ahead market.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>IMP_TOT_CLR_CST</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>IMP_TOT_SUB_MW</td>
<td>Sum of Imports convergence bidding (virtual) energy bids awarded (cleared), Imports virtual bids awarded (cleared) (and nodes) for a specific trade date in the day ahead market.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>IMP_TOT_SUB_CST</td>
<td>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.</td>
<td></td>
</tr>
</tbody>
</table>

**Convergence Bidding Nodal MW Limits**

This report displays the MW limits used by the ISO in formulating nodal MW constraints in conjunction with convergence bidding. An upper and lower limit is defined for each Eligible Pnode other than an Eligible Pnode established for an Intertie. This report is triggered with the publication of the Day-Ahead results.

**Contingency Dispatch Resource Schedules**

Similar to the System Load and Resource Schedules report, but for Real Time Contingency Dispatch (RTCD) runs. RTM Generation, Import and Export per TAC Area and CAISO total, in MW for all 10-Minute RTCD runs.

**Convergence Bidding Nodal MW Limits**

This report displays the MW limits used by the ISO in formulating nodal MW constraints in conjunction with convergence bidding. An upper and lower limit is defined for each Eligible Pnode other than an Eligible Pnode established for an Intertie. This report is triggered with the publication of the Day-Ahead results.

**Contingency Dispatch Resource Schedules**

Similar to the System Load and Resource Schedules report, but for Real Time Contingency Dispatch (RTCD) runs. RTM Generation, Import and Export per TAC Area and CAISO total, in MW for all 10-Minute RTCD runs.
## Report/ResultSet

<table>
<thead>
<tr>
<th>XML Name</th>
<th>XML Data Items</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOT_GEN_MW</td>
<td>Total MW cleared as Generation per TAC area for all 10-Minute Contingency Dispatch run.</td>
<td></td>
</tr>
<tr>
<td>TOT_IMP_MW</td>
<td>Total MW cleared as imports per TAC area for all 10-Minute Contingency Dispatch run.</td>
<td></td>
</tr>
<tr>
<td>TOT_EXP_MW</td>
<td>Total MW cleared as Exports per TAC area for all 10-Minute Contingency Dispatch run.</td>
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## Aggregated Generation Outages

<table>
<thead>
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<th>REPORT_DATE</th>
<th>OUTAGE_DATE</th>
<th>OUTAGE_HOUR</th>
<th>FUELCATEGORY</th>
<th>TRADING_HUB</th>
<th>OUTAGE_MW</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Aggregated Generation Outages</td>
</tr>
</tbody>
</table>

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).

## EIM Transfer Limits

After each RTPD and RTD market run is completed, OASIS will post the NSI low/high limits per each EIM BAA group that are used in the market.

<table>
<thead>
<tr>
<th>ENE_EIM_TRANSF_LIMITS</th>
<th>MKT_TYPE</th>
<th>INTERVAL_START_GMT</th>
<th>INTERVAL_END_GMT</th>
<th>BAA_GRP_ID</th>
<th>LIMIT_TYPE</th>
<th>EIM_XFER_MW</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>EIM Transfer Limits</td>
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</table>

## EIM Transfer

EIM BAA Net Imbalance energy export (transfer) will be posted to OASIS for every RTD and RTPD market.

<table>
<thead>
<tr>
<th>ENE_EIM_TRANSFER</th>
<th>INTERVAL_START_GMT</th>
<th>INTERVAL_END_GMT</th>
<th>MKT_TYPE</th>
<th>BAA_GRP_ID</th>
<th>EIM_XFER_MW</th>
<th>Description</th>
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</thead>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>EIM Transfer</td>
</tr>
</tbody>
</table>

## EIM BAA Dynamic NSI

Dynamic Net Schedule Interchange for each EIM BAA Group (PACW, PACW_PACE, etc.)

<table>
<thead>
<tr>
<th>ENE_EIM_DYN_NS</th>
<th>INTERVAL_START_GMT</th>
<th>INTERVAL_END_GMT</th>
<th>BAA_ID</th>
<th>LIMIT_TYPE</th>
<th>EIM_XFER_MW</th>
<th>Description</th>
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</thead>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>EIM BAA Dynamic NSI</td>
</tr>
<tr>
<td>Report/ResultSet</td>
<td>XML Name</td>
<td>XML Data Items</td>
<td>Description</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>------------------</td>
<td>----------</td>
<td>----------------</td>
<td>-------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BAA will be posted to OASIS for every RTD and RTPD market</td>
<td>MKT_TYPE</td>
<td>EIM_DYN_NSI_MW</td>
<td>RTPD and RTD EIM BAA Dynamic NSI MW</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BAA Base NSI</td>
<td>ENE_BASE_NSI</td>
<td>INTERVAL_START_GMT</td>
<td>Interval Start time (GMT)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DAM and RTM hourly base NSI for each EIM BAA. All data shall be from the latest DAM and the first RTPD 15-minute market within the hour.</td>
<td></td>
<td>INTERVAL_END_GMT</td>
<td>Interval End time (GMT)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>SNAPSHOT_INDICATOR</td>
<td>Base schedule snapshot indicator (T75MIN, T55MIN, T40MIN, DA)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>BAA_ID</td>
<td>One of more EIM BAA ID</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>MKT_TYPE</td>
<td>DAM and RTPD EIM Base NSI MW</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>BASE_NSI_MW</td>
<td>EIM Base NSI MW</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**ANCILLARY**

**AS Requirements**

Ancillary Service Capacity Minimum and Maximums per AS Region. Report will post for the 2-Day-Ahead forecast, DAM, HASP and RTM (RTPD).

**Note:**

When encountering a max A/S limit of zero, please interpret this as "no limit".

<table>
<thead>
<tr>
<th>AS_RESULTS</th>
<th>AS_REQ</th>
<th>NS_REQ_MAX_MW</th>
<th>Max capacity to be acquired for NonSpin</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>RD_REQ_MAX_MW</td>
<td>Max capacity to be acquired for RegulationDown</td>
<td></td>
</tr>
<tr>
<td></td>
<td>RU_REQ_MAX_MW</td>
<td>Max capacity to be acquired for RegulationUp</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SP_REQ_MAX_MW</td>
<td>Max capacity to be acquired for Spin</td>
<td></td>
</tr>
<tr>
<td></td>
<td>NS_REQ_MIN_MW</td>
<td>Min capacity to be acquired for NonSpin</td>
<td></td>
</tr>
<tr>
<td></td>
<td>RD_REQ_MIN_MW</td>
<td>Min capacity to be acquired for RegulationDown</td>
<td></td>
</tr>
<tr>
<td></td>
<td>RU_REQ_MIN_MW</td>
<td>Min capacity to be acquired for RegulationUp</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SP_REQ_MIN_MW</td>
<td>Min capacity to be acquired for Spin</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AS_REQ_MAX_MW</td>
<td>Max capacity UP to be acquired for RegulationUp, Spin, Non Spin</td>
<td></td>
</tr>
<tr>
<td></td>
<td>RMD_REQ_MAX_MW</td>
<td>Max capacity to be acquired for Regulation Mileage Down</td>
<td></td>
</tr>
<tr>
<td></td>
<td>RMD_REQ_MIN_MW</td>
<td>Min capacity to be acquired for Regulation Mileage Down</td>
<td></td>
</tr>
<tr>
<td></td>
<td>RMU_REQ_MAX_MW</td>
<td>Max capacity to be acquired for Regulation Mileage Up</td>
<td></td>
</tr>
<tr>
<td></td>
<td>RMU_REQ_MIN_MW</td>
<td>Min capacity to be acquired for Regulation Mileage Up</td>
<td></td>
</tr>
</tbody>
</table>

**AS Results**

Ancillary Service Capacity procured and self-scheduled, by AS type, posted for each AS Region. Also posts the sum of the procured and self-scheduled.

Posts Hourly for the Day-Ahead (DAM), HASP, and in 15 Minute (RTPD) intervals, by AS type. Also posts Total AS Cost for each AS Region, by AS Type.

Results will only post for AS Regions that are

<table>
<thead>
<tr>
<th>AS_RESULTS</th>
<th>RU_TOT_CST_PRC</th>
<th>The Total line cost across AS Region for Regulation Up.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>RD_TOT_CST_PRC</td>
<td>The Total line cost across AS Region for Regulation Down.</td>
</tr>
<tr>
<td></td>
<td>SP_TOT_CST_PRC</td>
<td>The Total line cost across AS Region for Spin.</td>
</tr>
<tr>
<td></td>
<td>NS_TOT_CST_PRC</td>
<td>The MW of capacity procured from the AS market bids for NonSpin. The MW of capacity self-</td>
</tr>
<tr>
<td>Report/ResultSet</td>
<td>XML Name</td>
<td>XML Data Items</td>
</tr>
<tr>
<td>------------------</td>
<td>----------</td>
<td>----------------</td>
</tr>
<tr>
<td></td>
<td>NS_PROC_MW</td>
<td>provided by market participants.</td>
</tr>
<tr>
<td></td>
<td>NS_SPROC_MW</td>
<td>The MW of capacity procured from the AS market bids for Spin.</td>
</tr>
<tr>
<td></td>
<td>NS_TOT_MW</td>
<td>The MW of capacity self-provided by market participants</td>
</tr>
<tr>
<td></td>
<td>SP_PROC_MW</td>
<td>The MW of capacity procured from the AS market bids for Spin</td>
</tr>
<tr>
<td></td>
<td>SP_SPROC_MW</td>
<td>The MW of capacity procured from the AS market bids for RegulationUp</td>
</tr>
<tr>
<td></td>
<td>SP_TOT_MW</td>
<td>The MW of capacity self-provided by market participants</td>
</tr>
<tr>
<td></td>
<td>RU_PROC_MW</td>
<td>The MW of capacity procured from the AS market bids for RegullationDown</td>
</tr>
<tr>
<td></td>
<td>RU_SPROC_MW</td>
<td>The MW of capacity procured from the AS market bids for RegulationDown</td>
</tr>
<tr>
<td></td>
<td>RU_TOT_MW</td>
<td>The MW of capacity self-provided by market participants</td>
</tr>
<tr>
<td></td>
<td>RD_PROC_MW</td>
<td>The MW of capacity procured from the AS market bids for RegulationMileageDown</td>
</tr>
<tr>
<td></td>
<td>RD_SPROC_MW</td>
<td>The MW of capacity procured from the AS market bids for RegulationMileageDown</td>
</tr>
<tr>
<td></td>
<td>RD_TOT_MW</td>
<td>The MW of capacity self-provided by market participants</td>
</tr>
<tr>
<td></td>
<td>RMD_PROC_MW</td>
<td>The MW of capacity procured from the AS market bids for RegulationMileageDown</td>
</tr>
<tr>
<td></td>
<td>RMD_SPROC_MW</td>
<td>The MW of capacity self-provided by market participants for RegulationMileageDown</td>
</tr>
<tr>
<td></td>
<td>RMD_TOT_CST_PRC</td>
<td>The Total line cost across AS Region for RegulationMileageDown</td>
</tr>
<tr>
<td></td>
<td>RMD_TOT_MW</td>
<td>The MW of capacity procured from the AS market bids for RegulationMileageUp</td>
</tr>
<tr>
<td></td>
<td>RMU_PROC_MW</td>
<td>The MW of capacity procured from the AS market bids for RegulationMileageUp</td>
</tr>
<tr>
<td></td>
<td>RMU_SPROC_MW</td>
<td>The MW of capacity self-provided by market participants</td>
</tr>
<tr>
<td>Report/ResultSet</td>
<td>XML Name</td>
<td>XML Data Items</td>
</tr>
<tr>
<td>------------------</td>
<td>----------</td>
<td>----------------</td>
</tr>
<tr>
<td>RMU_TOT_CST_PRC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RMU_TOT_MW</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Actual Operating Reserves**

Total Actual Load, AS, and Operating Reserves maintained during delivery.

<table>
<thead>
<tr>
<th>XML Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AS_OP_RSrv</td>
<td>Total Actual Operating Reserves maintained during delivery.</td>
</tr>
<tr>
<td>OP_RSrv_ACT_PCT</td>
<td></td>
</tr>
</tbody>
</table>

**Mileage Calculation Components**

Lists system performance accuracy, average instructed Mileage (MW), and system Mileage multiplier data from the prior seven days for each hour of a trading day.

<table>
<thead>
<tr>
<th>XML Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AS_MILEAGE_CALC</td>
<td>Average instructed Mileage for regulation mileage down</td>
</tr>
<tr>
<td>RMD_AVG_MIL</td>
<td>System Mileage Multiplier for regulation mileage down</td>
</tr>
<tr>
<td>RMD_SYS_MIL_MUL</td>
<td>System Performance Accuracy for regulation mileage up</td>
</tr>
<tr>
<td>RMD_SYS_PERF_ACC</td>
<td>Average instructed Mileage for regulation mileage up</td>
</tr>
<tr>
<td>RMD_SYS_MIL_MUL</td>
<td>System Mileage Multiplier for regulation mileage up</td>
</tr>
<tr>
<td>RMD_SYS_PERF_ACC</td>
<td>System Performance Accuracy for regulation mileage up.</td>
</tr>
</tbody>
</table>

**CRR**

**CRR Clearing Prices**

Congestion Revenue Rights Auction Clearing Prices by Pnode for CRR segments.

<table>
<thead>
<tr>
<th>XML Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRR_CLEARING</td>
<td>On-peak Price</td>
</tr>
<tr>
<td>LT_OFFPrecio</td>
<td>Off-peak Price</td>
</tr>
</tbody>
</table>

**CRR Inventory**

Congestion Revenue Rights Daily Inventory.

<table>
<thead>
<tr>
<th>XML Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRR_INVENTORY</td>
<td>On-peak capacity</td>
</tr>
<tr>
<td>OFF_MW</td>
<td>Off-peak capacity</td>
</tr>
</tbody>
</table>

Note: These are the XML tags for corresponding data items.
### Report/ResultSet

<table>
<thead>
<tr>
<th>XML Name</th>
<th>XML Data Items</th>
<th>Description</th>
</tr>
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<td>OPTION</td>
<td>CRR OPTION</td>
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</tr>
<tr>
<td>INVENTORY_DATE_TIME</td>
<td>INVENTORY DATE</td>
<td></td>
</tr>
<tr>
<td>START_DATE_TIME</td>
<td>START DATE</td>
<td></td>
</tr>
<tr>
<td>END_DATE_TIME</td>
<td>END DATE</td>
<td></td>
</tr>
<tr>
<td>REASON</td>
<td>MARKET TERM</td>
<td></td>
</tr>
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<td>CRR Type</td>
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<td>CRR NSR</td>
<td>NSR INDEX</td>
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</tr>
<tr>
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<td>SEGMENT ID</td>
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</tr>
</tbody>
</table>

### PUBLIC BIDS

**Public Bids**

Clean Bid payloads used as the input in the markets, with certain fields replaced by pseudo data as indicated. Posted at T+90. The Public Bid Data is downloadable to XML and CSV only, for a single day at a time.

Data is available for downloading at midnight on the 90th day after the trading day.

The Publications and Revisions log will not create records for the Public Bid data when it is becomes available for downloading on T+90.

**Note:** Below structure is common for -GENERATION, LOAD, and INTERTIE.

- **STARTTIME**
  - Start time of bid
- **STOPTIME**
  - End time of bid
- **REGISTEREDGENERATOR**
  - Pseudo ID of Resource
- **SCHEDULINGCOORDINATOR**
  - Pseudo ID of SC_ID
- **PRODUCTBID**
  - Description of product
- **MRID**
  - All the possible types like EN, LFD, LFU, NR, RC, RD, RU, SR, RMD and RMU
- **MARKETPRODUCTDESCRIPTION**
  - Selfscheduled bid start and end time with the MW.
- **MARKETPRODUCTTYPE**
  - Bid Schedule with start and end time
- **BIDSELFSCHEDEnergyProductBid**
  - Curve details contains X and Y axis data.
- **TIMEINTERVALSTART**
  - Xaxis = optional element
- **TIMEINTERVALEND**
  - Y1axis = optional element
- **SELFSCHEDMW**
  - Y2 axis = Opportunity Cost; optional element

### CB Public Bids

Convergence Bidding Clean Bid payloads used as the input in the markets, with certain fields replaced by pseudo data as indicated. Posted for DAM. Posted at T+90. The Public Bid Data is downloadable to XML and CSV only, for a single day at a time.

Data is available for downloading at midnight on the 90th day after the trading day.

**Note:** Below structure is common for -GENERATION, LOAD, and INTERTIE.

- **STARTTIME**
  - Start time of Virtual bid
- **STOPTIME**
  - End time of Virtual bid
- **AggregatedPnode**
  - Pseudo ID of Pnode
- **IndividualPnode**
  - Pseudo ID of Pnode
- **Flowgate**
  - Pseudo ID of Flowgate
- **SCHEDULINGCOORDINATOR**
  - Pseudo ID of SC_ID
- **ENERGYPRODUCTBID**
  - Bid Schedule with start and end time
- **BIDSCHEDEnergyProductBid**
  - Curve details contains X and Y axis data.
<table>
<thead>
<tr>
<th>Report/ResultSet</th>
<th>XML Name</th>
<th>XML Data Items</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Congestion Revenue Rights (CRR) Public Bids</td>
<td>PUB_CRR_BID</td>
<td>STARTTIME, STOPTIME, MARKETTERM, MARKETNAME, SOURCEID, SINKID, TIMEOFUSE, MWQUANTITY, CRR_PRICE, CRRBID_ID, CRRBIDSEG_ID, AUCTIONCLOSEDATE</td>
<td>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.</td>
</tr>
<tr>
<td>ATLAS</td>
<td>ATL_PNODE</td>
<td>N/A</td>
<td>All Pricing Node locations in CAISO Markets. For CB, Y/N flag will be added. For CB, Maximum CB MW Limit, with effective start and end dates will be added.</td>
</tr>
<tr>
<td></td>
<td>ATL_APNODE</td>
<td>N/A</td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td>ATL_LDF</td>
<td>N/A</td>
<td>Typical Load Distribution Factors that map Pronodes to APNodes.</td>
</tr>
<tr>
<td></td>
<td>ATL_LAP</td>
<td>N/A</td>
<td>All Load Aggregation Points in CAISO, by type.</td>
</tr>
<tr>
<td></td>
<td>ATLRESOURCE</td>
<td>N/A</td>
<td>List of CAISO Resources and</td>
</tr>
</tbody>
</table>

Interface Specification for OASIS

Ver: 4.2.5, Date: 02/18/2015
### Report/ResultSet

<table>
<thead>
<tr>
<th>XML Name</th>
<th>XML Data Items</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATL_HUB</td>
<td>N/A</td>
<td>All Trading Hub APNodes or PNodes.</td>
</tr>
<tr>
<td>ATL_PNODE_MAP</td>
<td>N/A</td>
<td>Map of all Pnodes to each Trading Hub APNode.</td>
</tr>
<tr>
<td>ATL_AS_REGION_MAP</td>
<td>N/A</td>
<td>Map of all Pnodes to each Ancillary Services Region.</td>
</tr>
<tr>
<td>ATL_RUC_ZONE_MAP</td>
<td>N/A</td>
<td>Map of all Pnodes to each Reliability Unit Commitment Zone.</td>
</tr>
<tr>
<td>ATL_TAC_AREA</td>
<td>N/A</td>
<td>Map of all Pnodes to each Transmission Access Charge Area.</td>
</tr>
<tr>
<td>ATL_TIEPOINT</td>
<td>N/A</td>
<td>Map of all Intertie Constraints with respective Transmission Interface and TSIN.</td>
</tr>
<tr>
<td>ATL_TI</td>
<td>N/A</td>
<td>All Transmission Interfaces in CAISO.</td>
</tr>
<tr>
<td>ATL_PUB</td>
<td>N/A</td>
<td>List of all OASIS data publication and revisions. Users can track all data additions and updates to OASIS through these entries.</td>
</tr>
<tr>
<td>ATL_PUB_SCHED</td>
<td>N/A</td>
<td>Expected publication schedule by which all OASIS reports are published.</td>
</tr>
<tr>
<td>ATL_OSM</td>
<td>N/A</td>
<td>System Operating Messages posted by Severity.</td>
</tr>
<tr>
<td>ATL_PEAK_ON_OF</td>
<td>N/A</td>
<td>_posts Hourly Peak/Off-Peak indicator based on the WECC definition.</td>
</tr>
<tr>
<td>ATL_CBNODE</td>
<td>N/A</td>
<td>List all the nodes and/or ties for convergence bidding.</td>
</tr>
</tbody>
</table>

### 6. Single Report URL Query Strings

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

<table>
<thead>
<tr>
<th>XML Name</th>
<th>Example URL for XML Download</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRICES</td>
<td><img src="http://oasis.caiso.com/oasisapi/SimpleZip?queryname=PRC_LMP&amp;startdate=20130919T07:00-0000&amp;enddatetime=20130920T07:00-0000&amp;version=1&amp;market_run_id=DAM&amp;grp_type=ALL_APNODES" alt="Example URL" /> OR <img src="http://oasis.caiso.com/oasisapi/SimpleZip?queryname=PRC_LMP&amp;startdate=20130919T07:00-0000&amp;enddatetime=20130920T07:00-0000&amp;version=1&amp;market_run_id=DAM&amp;node=LAPLMG1_7_B2" alt="Example URL" /></td>
</tr>
</tbody>
</table>

**NOTES:**

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

**Ver: 4.2.5, Date: 02/18/2015**

<table>
<thead>
<tr>
<th>XML Name</th>
<th>Example URL for XML Download</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRC_INTVL_LMP</td>
<td><a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_INTVL_LMP&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=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;enddatetime=20130919T08:00-0000&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_INTVL_LMP&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=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;enddatetime=20130919T08:00-0000&amp;version=1&amp;market_run_id=RTM&amp;node=LAPLMG1_7_B2</a> OR <a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_INTVL_LMP&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=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;enddatetime=20130919T08:00-0000&amp;version=1&amp;market_run_id=RTM&amp;node=LAPLMG1_7_B2</a></td>
</tr>
<tr>
<td>PRC_HASP_LMP</td>
<td><a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_HASP_LMP&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=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;enddatetime=20130919T08:00-0000&amp;version=1&amp;market_run_id=HASP&amp;grp_type=ALL_APNODES</a> OR <a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_HASP_LMP&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=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;enddatetime=20130919T08:00-0000&amp;version=1&amp;market_run_id=HASP&amp;node=LAPLMG1_7_B2</a> OR <a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_HASP_LMP&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=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;enddatetime=20130919T08:00-0000&amp;version=1&amp;market_run_id=HASP&amp;node=LAPLMG1_7_B2</a></td>
</tr>
<tr>
<td>PRC_RTPD_LMP</td>
<td><a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_RTPD_LMP&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=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;enddatetime=20130919T08:00-0000&amp;version=1&amp;market_run_id=RTPD&amp;grp_type=ALL_APNODES</a> OR <a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_RTPD_LMP&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=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;enddatetime=20130919T08:00-0000&amp;version=1&amp;market_run_id=RTPD&amp;node=LAPLMG1_7_B2</a></td>
</tr>
</tbody>
</table>

**NOTE:**

1. Recommend to use grp_type or node only. Grp_type will give all the APNODES or ALL NODES groups and node can enable users to select individual APNODES or PNODES.
2. The "enddatetime" is ignored if the query is to pull "ALL" or "ALL_APNODES" nodes; ie query will return only 1 hours' worth of data for all nodes at a time based on the "startdatetime" supplied
3. The "enddatetime" is referenced only when a node is supplied in the query
4. Market_run_id 'RTM' will continue to provide 5-min RTD interval LMP data
5. Only new version (version=2) introduced as part of Fall 2014 release will include new element LMP_GHG_PRC.
## Interface Specification for OASIS

### Version: 4.2.5, Date: 02/18/2015

<table>
<thead>
<tr>
<th>XML Name</th>
<th>Example URL for XML Download</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRC_RTD_LMP</td>
<td><img src="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_RTD_LMP&amp;market_run_id=RTPD&amp;startdatetime=20130919T07:00:00&amp;enddatetime=20130919T08:00:00&amp;version=2&amp;market_run_id=RTPD&amp;grp_type=ALL_APNODES" alt="Example URL" /></td>
</tr>
<tr>
<td>PRC_RTD_LMP</td>
<td><img src="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_RTD_LMP&amp;market_run_id=RTPD&amp;startdatetime=20130919T07:00:00&amp;enddatetime=20130919T08:00:00&amp;version=2&amp;market_run_id=RTPD&amp;node=LAPLMG1_7_B2" alt="Example URL" /></td>
</tr>
</tbody>
</table>

**NOTE:**

1. Recommend to use grp_type or node only. Grp_type will give all the APNODES or ALL NODES groups and node can enable users to select individual APNODES or PNODES.
2. The "enddatetime" is ignored if the query is to pull "ALL" or "ALL_APNODES" nodes; ie query will return only 1-day's worth of data for all nodes at a time based on the "startdatetime" supplied.
3. The "enddatetime" is referenced only when a node is supplied in the query.
4. Only new version (version=2) introduced as part of Fall 2014 release will include new element LMP_GHG_PRC.
### XML Name | Example URL for XML Download
---|---
CB_NODAL_GRP_CNSTR_PRC | http://oasis.caiso.com/oasisapi/SingleZip?queryname=CB_NODAL_GRP_CNSTR_PRC&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1

**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.

#### PRC_FLEX_RAMP

- [URL](http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_FLEX_RAMP&market_run_id=DAM&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1)
- [URL](http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_FLEX_RAMP&market_run_id=RTPD&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1&grp_type=ALL)
- [URL](http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_FLEX_RAMP&market_run_id=RTD&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1&grp_type=ALL)

Note: This will be based on the historical view. Returns data based on the input time range.

EIM release will add the baa_grp_id parameter to the above URL:

- [URL](http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_FLEX_RAMP&market_run_id=RTD&baa_grp_id=PAC&E&startdatetime=20141001T07:00-0000&enddatetime=20141002T07:00-0000&version=2&grp_type=ALL)

Valid values for baa_grp_id parameter are ISO, PACE, PACW, ISO_PACW, ISO_PACE, PACE_PACW, ISO_PACW_PACE

Valid values for market_run_id are RTD and RTPD

#### PRC_CD_INTVL_LMP

- [URL](http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_CD_INTVL_LMP&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1&market_run_id=RTM&grp_type=ALL_APNODES)

#### PRC_CD_SPTIE_LMP

- [URL](http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_CD_SPTIE_LMP&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1&market_run_id=RTM&node=LAPLMG1_7_B2)
<table>
<thead>
<tr>
<th>XML Name</th>
<th>Example URL for XML Download</th>
</tr>
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<tbody>
<tr>
<td>MP</td>
<td><a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_CD_SPTIE_LMP&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130920T07:00-0000&amp;version=3&amp;market_run_id=RTM&amp;grp_type=ALL_APNODES">http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_CD_SPTIE_LMP&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130920T07:00-0000&amp;version=3&amp;market_run_id=RTM&amp;grp_type=ALL_APNODES</a> OR <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=3&amp;market_run_id=RTM&amp;node=LAPLMG1_B2">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=3&amp;market_run_id=RTM&amp;node=LAPLMG1_B2</a></td>
</tr>
<tr>
<td>PRC_CD_RTM_FLOWGATE</td>
<td><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=3">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=3</a></td>
</tr>
<tr>
<td>PRC_CD_RTM_NOMOGRAM</td>
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<td>TRANSMISSION</td>
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</tr>
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<td>TRNS_CURR_USAGE</td>
<td><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></td>
</tr>
<tr>
<td>TRNS_ATC</td>
<td><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></td>
</tr>
<tr>
<td>TRNS_OUTAGE</td>
<td><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></td>
</tr>
<tr>
<td>TRNS_USAGE</td>
<td><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></td>
</tr>
<tr>
<td></td>
<td>List of available &quot;tr_type&quot;: TRNS_AS_IMPORT_IFM, TRNS_ENE_IMPORT_IFM, TRNS_RATING_CBM, TRNS_RATING_CONSTRAINT, TRNS_RATING_MTC, TRNS_RATING_OTC, TRNS_RATING_TRM, TRNS_RATING_TRM_FTO, TRNS_RATING_TRM_SPI, TRNS_RATING_TRM_UF, TRNS_RATING_TTC, TRNS_TR_USAGE, RATING_ATC</td>
</tr>
<tr>
<td>Interface Specification for OASIS</td>
<td>Page 40</td>
</tr>
<tr>
<td>---------------------------------</td>
<td>--------</td>
</tr>
<tr>
<td><strong>PRC_MPM_LMP</strong></td>
<td></td>
</tr>
<tr>
<td><strong>HASP</strong></td>
<td></td>
</tr>
<tr>
<td><strong>RTPD</strong></td>
<td></td>
</tr>
</tbody>
</table>
NOTE:
1. Recommend to use grp_type or node only. Grp_type will give all the APNODES or ALL NODES groups and node can enable users to select individual APNODES or PNODES.
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3. The "enddatetime" is referenced only when a node is supplied in the query
4. Only new version (version=2) introduced as part of Fall 2014 release will include new element LMP_GHG_PRC.

PRC_MPM_NOMOGRAM
http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_NOMOGRAM&market_run_id=DAM&nomogram_id=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1

PRC_MPM_RTM_NOMOGRAM
http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_NOMOGRAM&market_run_id=HASP&nomogram_id=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_NOMOGRAM&market_run_id=RTPD&nomogram_id=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1

PRC_MPM_NOMOGRAM_CMP
http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_NOMOGRAM_CMP&market_run_id=DAM&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_NOMOGRAM_CMP&market_run_id=HASP&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_NOMOGRAM_CMP&market_run_id=RTPD&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1

PRC_MPM_CNSTR
http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_CNSTR&market_run_id=DAM&ti_id=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
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PRC_MPM_RTM_FLOWGATE
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### Interface Specification for OASIS

**Ver**: 4.2.5, **Date**: 02/18/2015

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**NOTE:**

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

### SYSTEM DEMAND

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## 7. Group Report Definitions

This section contains all GroupIDs and corresponding reports.

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<th>GroupID</th>
<th>Reports In Group</th>
<th>Market Type</th>
<th>Report XML Names</th>
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<tbody>
<tr>
<td>DAM_LMP_GRP</td>
<td>Locational Marginal Prices (LMP)</td>
<td>DAM</td>
<td>PRC_LMP (Note: 4 files will be created LMP, MCC, MCE, MCL for the trade date &amp; will be cached for all nodes)</td>
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<td>DAM_SPTIE_LMP_GRP</td>
<td>DAM Scheduling Point Tie Locational Marginal Prices (LMP)</td>
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<td>RTPD</td>
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<td>RTD_SPTIE_LMP_GRP</td>
<td>RTD Scheduling Point Tie Locational Marginal Prices (LMP)</td>
<td>RTD</td>
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<td>PRC_LMP (Note: 1 file will be created LMP for the trade date &amp; will be cached for all nodes)</td>
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<td>PRC_INTVL_LMP (Note: Hourly 12 intervals cached files for trade date &amp; will be cached for all nodes)</td>
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<td>PRC_AS (Note: Daily cached files for trade date &amp; will be cached for all AS Regions)</td>
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<td>AS Clearing Prices</td>
<td>HASP</td>
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<td>(Note: Daily cached files for trade date &amp; will be</td>
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<td>PRCC_INTVL AS</td>
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<td>(Note: Hourly 4 intervals cached files for trade date</td>
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<td>(Note: Hourly 4 intervals cached files for trade date</td>
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### 8. Group URL Query Strings

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

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**Interface Specification for OASIS**

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<td><a href="http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTPD_MPM_LMP_GRP&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130919T08:00-0000&amp;version=1">http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTPD_MPM_LMP_GRP&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130919T08:00-0000&amp;version=1</a></td>
</tr>
<tr>
<td>DAM_MPM_SD_PRC_GRP</td>
<td><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></td>
</tr>
<tr>
<td>HASP_MPM_SD_PRC_GRP</td>
<td><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></td>
</tr>
<tr>
<td>RTPD_MPM_SD_PRC_GRP</td>
<td><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></td>
</tr>
<tr>
<td>PUB_CRR_BID_SEASONAL_GRP</td>
<td><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></td>
</tr>
<tr>
<td>PUB_CRR_BID_MTHLY_GRP</td>
<td><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></td>
</tr>
<tr>
<td>AGGR_OUTAGE_SCH_GRP</td>
<td><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></td>
</tr>
</tbody>
</table>
9. Versioning and Namespace domain reference

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

<table>
<thead>
<tr>
<th>Namespace</th>
<th>Major Version</th>
<th>Minor Version</th>
</tr>
</thead>
<tbody>
<tr>
<td><a href="http://www.caiso.com/soa/OASISBid_v1.xsd">http://www.caiso.com/soa/OASISBid_v1.xsd</a></td>
<td>1</td>
<td>20131201</td>
</tr>
<tr>
<td><a href="http://www.caiso.com/soa/OASISCBBid_v1.xsd">http://www.caiso.com/soa/OASISCBBid_v1.xsd</a></td>
<td>1</td>
<td>20131201</td>
</tr>
<tr>
<td><a href="http://www.caiso.com/soa/OASISCBBid_v2.xsd">http://www.caiso.com/soa/OASISCBBid_v2.xsd</a></td>
<td>2</td>
<td>20150501</td>
</tr>
<tr>
<td><a href="http://www.caiso.com/soa/OASISCRRPublicBid_v1.xsd">http://www.caiso.com/soa/OASISCRRPublicBid_v1.xsd</a></td>
<td>1</td>
<td>20131201</td>
</tr>
<tr>
<td><a href="http://www.caiso.com/soa/OASISMaster_v1.xsd">http://www.caiso.com/soa/OASISMaster_v1.xsd</a></td>
<td>1</td>
<td>20131201</td>
</tr>
<tr>
<td><a href="http://www.caiso.com/soa/OASISMaster_v2.xsd">http://www.caiso.com/soa/OASISMaster_v2.xsd</a></td>
<td>2</td>
<td>20150501</td>
</tr>
<tr>
<td><a href="http://www.caiso.com/soa/OASISReport_v1.xsd">http://www.caiso.com/soa/OASISReport_v1.xsd</a></td>
<td>1</td>
<td>20140401</td>
</tr>
<tr>
<td><a href="http://www.caiso.com/soa/OASISReport_v2.xsd">http://www.caiso.com/soa/OASISReport_v2.xsd</a></td>
<td>2</td>
<td>20141001</td>
</tr>
<tr>
<td><a href="http://www.caiso.com/soa/OASISReport_v3.xsd">http://www.caiso.com/soa/OASISReport_v3.xsd</a></td>
<td>3</td>
<td>20150101</td>
</tr>
</tbody>
</table>

10. 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

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