
 California ISO	External Use		
		Version No.	1.4
		Effective Date	<i>March 2023</i>
MRI-Settlements User Guide			

Market Results Interface - Settlements User Guide

Version 1.4
2 March 2023

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Version

Version	Date	Description
1.0	09/18/2012	Initial Version
1.1	05/05/2018	New Functionality. Statement and Invoice Publication Status
1.2	06/01/2018	Settlement Performance Project. Splitting of CAISO bd files by EIM/BAA.
1.3	10/21/2019	RC Functionality
1.4	03/02/2023	Updated browser info



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Overview

The purpose of this user guide is to provide the Scheduling Coordinators (SC) of the California Independent System Operator (CAISO) an overview of the new application called Market Results Interface (MRI) – Settlements. This application will replace the existing Business Associate Portal Interface (BAPI) which is used by SCs to search, select and download Settlement files.

Who Should Read This Guide

The intended audience for this user guide is the Schedule Coordinators registered with the CAISO.

Why This Guide is Important

This Guide is important to prepare the SCs to use the MRI-Settlements application for the market simulation of Fall Release 2012. This will also help the SCs when the application is deployed in production in November 2012.


Objectives

User will be able to:

- Access and view standard Settlement files
- Navigate, search, and download desired Settlement files

Prerequisites

- General understanding of Settlements concepts


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References

- BPM for Settlements and Billing
- Settlements Interface Specification
- Portal User Guide

Version


This version 1.0 of the document is based on Fall Release 2012 Market Simulation.

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Section 1

Portal

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Portal

Objectives

This section includes information on how to access the Market Results Interface (MRI) – Settlements via the CAISO Portal. By the end of this section you should know how to:

- Log-in to the CAISO Portal
- Open MRI-Settlements via the Portal

Overview

The portal allows access to Market Applications along with CAISO reports. Additionally, industry related news and links will be available through the portal. For detailed information on the Portal see the Portal User Guide.

Benefits

The implementation of the Portal provides:


- A single location to access CAISO Market Applications
- A common look and feel across the CAISO Market Applications
- A single digital certificated (per user) for all CAISO Market Applications

Accessing the Portal

All Market Participants will be given access to the Portal. Individual users will be issued a digital certificate, which can be used to access the Portal as well as all market applications. The URL (web address) for the Portal will be distributed with your digital certificate.

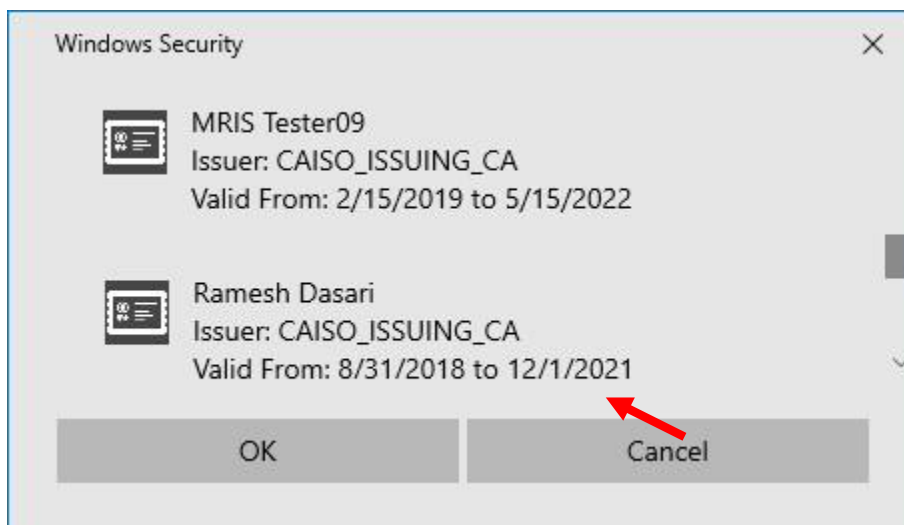
For more information on requesting a digital certificate email certrequest@caiso.com or go to <http://www.caiso.com/pubinfo/info-security/certs/index.html>


For Market Simulation, Participants should have requested and received their digital certificates for Market Simulation testing. For more information, refer to the Market Simulation Guidebook.

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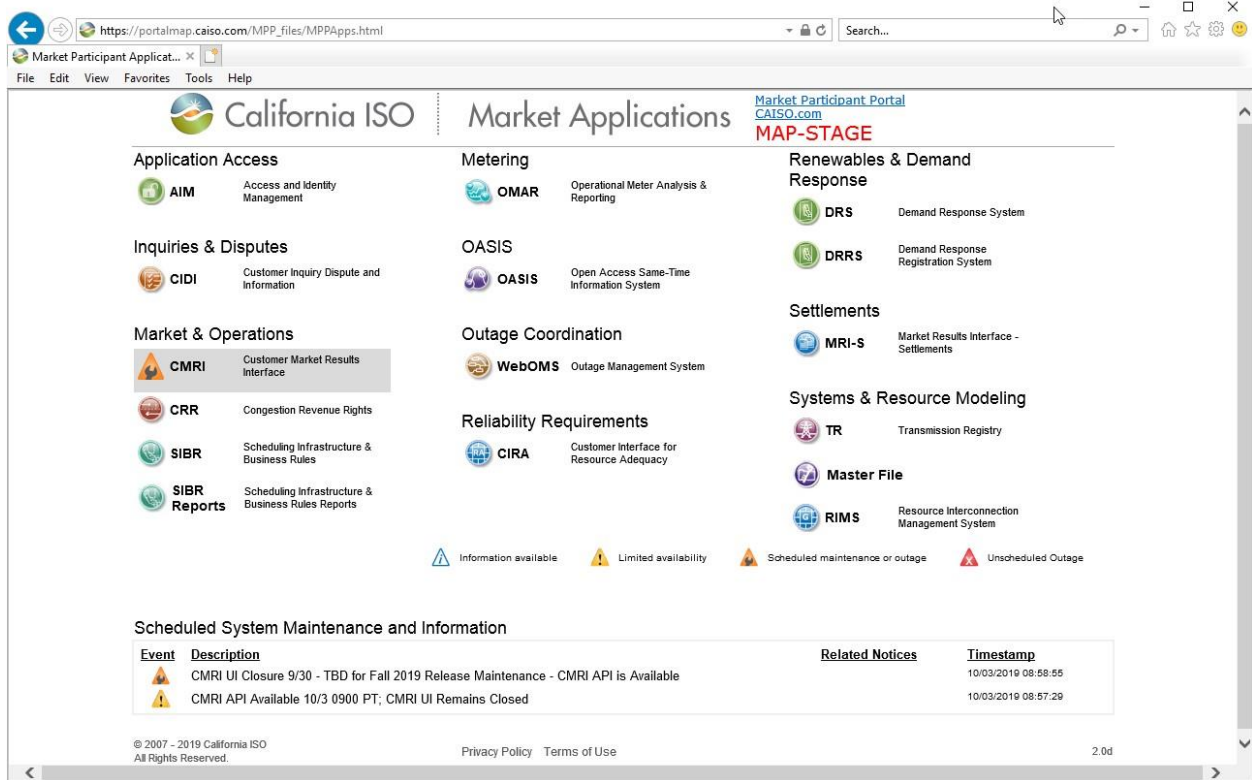
The following step-action table and screen shots will demonstrate how to access the Portal:

STEP	ACTION	RESULT
1	In the Chrome or Edge Address field, type https://portalmap.caiso.com/ and press enter	Client Authentication window will appear
2	Select the proper Digital Certificate (The Digital Certificate will be the first and last name of the person that requested it.)	Certificate will be highlighted
3	Click OK button	The Portal home page is displayed




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The figure below is an example of the Portal home page:



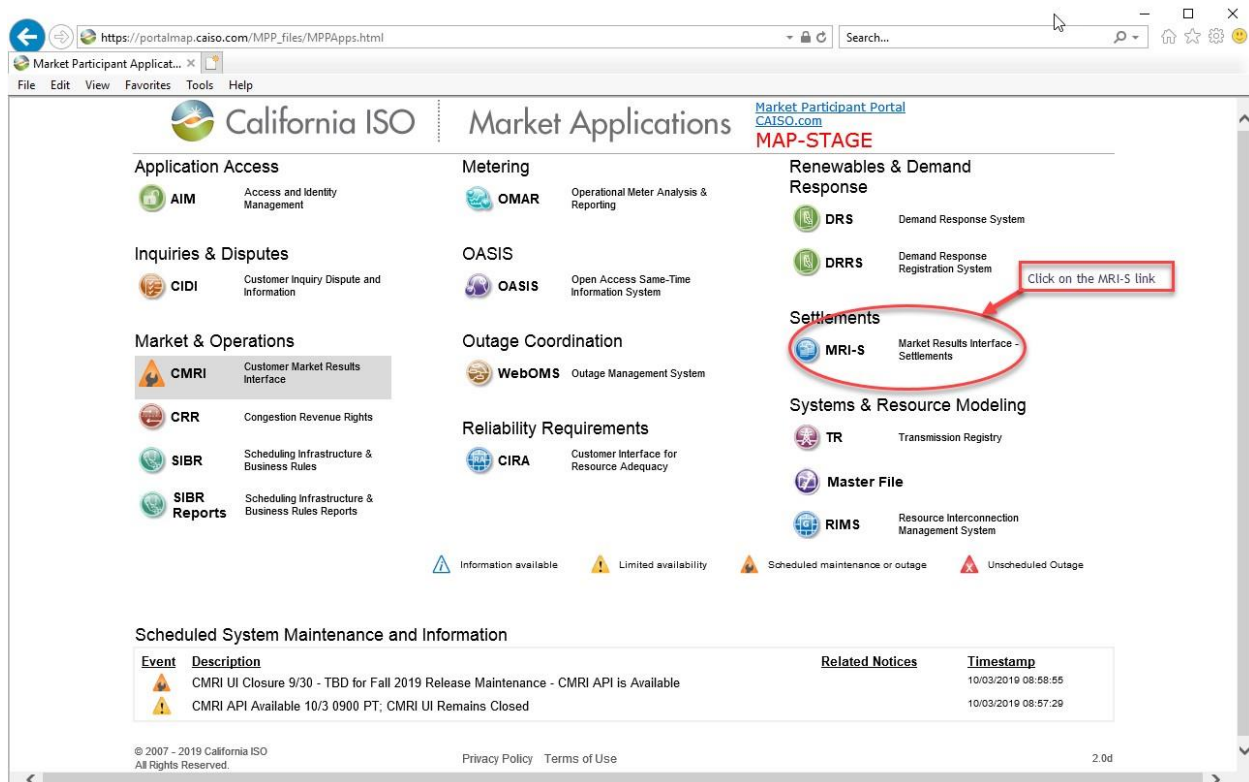
Accessing MRI-Settlements via Portal – CAISO Market Participants

Once logged into the Portal, the next step is to access the MRI-Settlements page of the Portal.



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STEP	ACTION	RESULT
1	Click on “Market Results Interface-Settlements” on the Portal	Market Results Interface – Settlements page will open in new window

Following is an example of the Portal home page:

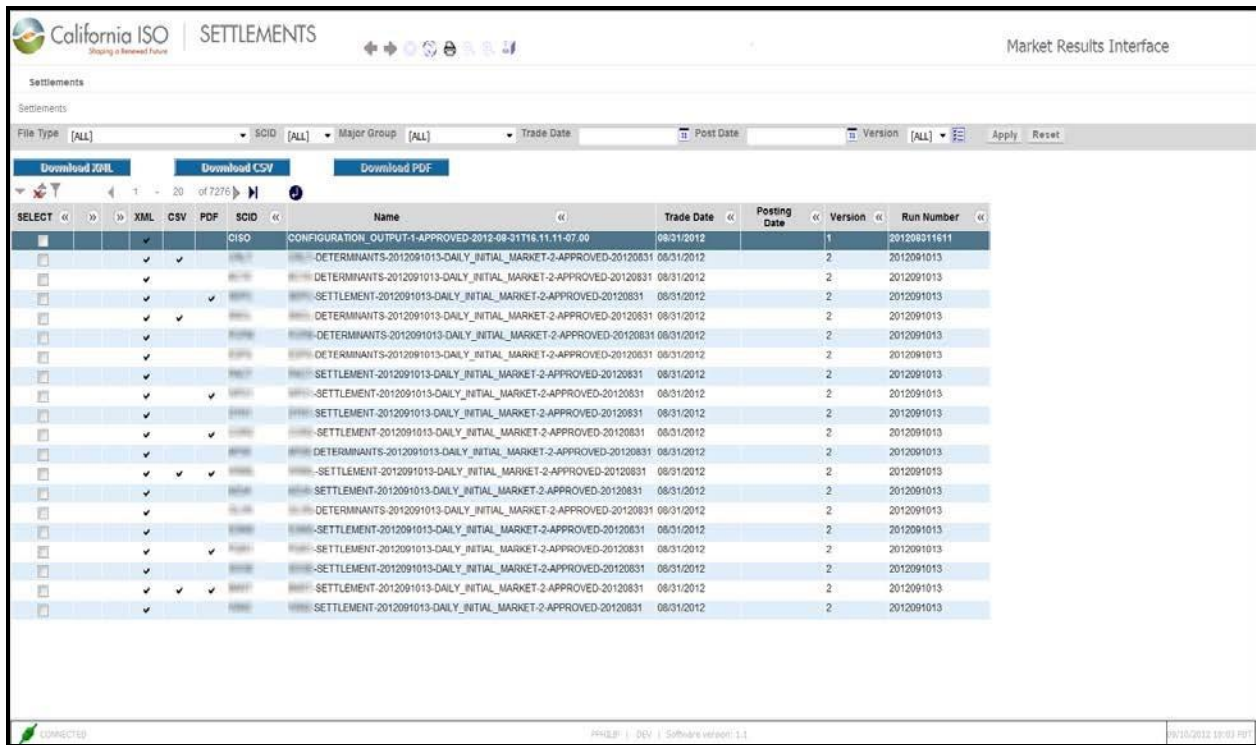


The screenshot shows the California ISO Market Applications Portal. The 'Settlements' section is highlighted with a red circle, and a red arrow points to the 'MRI-S Market Results Interface - Settlements' link with the text 'Click on the MRI-S link'. Below the main content, there is a table for 'Scheduled System Maintenance and Information'.

Event	Description	Related Notices	Timestamp
	CMRI UI Closure 9/30 - TBD for Fall 2019 Release Maintenance - CMRI API is Available		10/03/2019 08:58:55
	CMRI API Available 10/3 0900 PT; CMRI UI Remains Closed		10/03/2019 08:57:29


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An example of the MRI-Settlements page is shown in the following figure:



The screenshot displays the 'SETTLEMENTS' page in the Market Results Interface. At the top, there are navigation and filter options: File Type [ALL], SCID [ALL], Major Group [ALL], Trade Date, Post Date, and Version [ALL]. Below these are download buttons for XML, CSV, and PDF. The main content is a table with the following columns: SELECT, XML, CSV, PDF, SCID, Name, Trade Date, Posting Date, Version, and Run Number. The table lists various settlement records, including configuration outputs and determinants for different dates and versions.

SELECT	XML	CSV	PDF	SCID	Name	Trade Date	Posting Date	Version	Run Number
<input type="checkbox"/>					CONFIGURATION_OUTPUT-1-APPROVED-2012-08-21T16:11:11-07:00	08/21/2012		1	201208311611
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			DETERMINANTS-2012091013-DAILY_INITIAL_MARKET-2-APPROVED-20120831	08/31/2012		2	2012091013
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			DETERMINANTS-2012091013-DAILY_INITIAL_MARKET-2-APPROVED-20120831	08/31/2012		2	2012091013
<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		SETTLEMENT-2012091013-DAILY_INITIAL_MARKET-2-APPROVED-20120831	08/31/2012		2	2012091013
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			DETERMINANTS-2012091013-DAILY_INITIAL_MARKET-2-APPROVED-20120831	08/31/2012		2	2012091013
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			DETERMINANTS-2012091013-DAILY_INITIAL_MARKET-2-APPROVED-20120831	08/31/2012		2	2012091013
<input type="checkbox"/>	<input checked="" type="checkbox"/>				DETERMINANTS-2012091013-DAILY_INITIAL_MARKET-2-APPROVED-20120831	08/31/2012		2	2012091013
<input type="checkbox"/>	<input checked="" type="checkbox"/>				SETTLEMENT-2012091013-DAILY_INITIAL_MARKET-2-APPROVED-20120831	08/31/2012		2	2012091013
<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		SETTLEMENT-2012091013-DAILY_INITIAL_MARKET-2-APPROVED-20120831	08/31/2012		2	2012091013
<input type="checkbox"/>	<input checked="" type="checkbox"/>				SETTLEMENT-2012091013-DAILY_INITIAL_MARKET-2-APPROVED-20120831	08/31/2012		2	2012091013
<input type="checkbox"/>	<input checked="" type="checkbox"/>				SETTLEMENT-2012091013-DAILY_INITIAL_MARKET-2-APPROVED-20120831	08/31/2012		2	2012091013
<input type="checkbox"/>	<input checked="" type="checkbox"/>				DETERMINANTS-2012091013-DAILY_INITIAL_MARKET-2-APPROVED-20120831	08/31/2012		2	2012091013
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			SETTLEMENT-2012091013-DAILY_INITIAL_MARKET-2-APPROVED-20120831	08/31/2012		2	2012091013
<input type="checkbox"/>	<input checked="" type="checkbox"/>				SETTLEMENT-2012091013-DAILY_INITIAL_MARKET-2-APPROVED-20120831	08/31/2012		2	2012091013
<input type="checkbox"/>	<input checked="" type="checkbox"/>				SETTLEMENT-2012091013-DAILY_INITIAL_MARKET-2-APPROVED-20120831	08/31/2012		2	2012091013
<input type="checkbox"/>	<input checked="" type="checkbox"/>				SETTLEMENT-2012091013-DAILY_INITIAL_MARKET-2-APPROVED-20120831	08/31/2012		2	2012091013
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			SETTLEMENT-2012091013-DAILY_INITIAL_MARKET-2-APPROVED-20120831	08/31/2012		2	2012091013
<input type="checkbox"/>	<input checked="" type="checkbox"/>				SETTLEMENT-2012091013-DAILY_INITIAL_MARKET-2-APPROVED-20120831	08/31/2012		2	2012091013

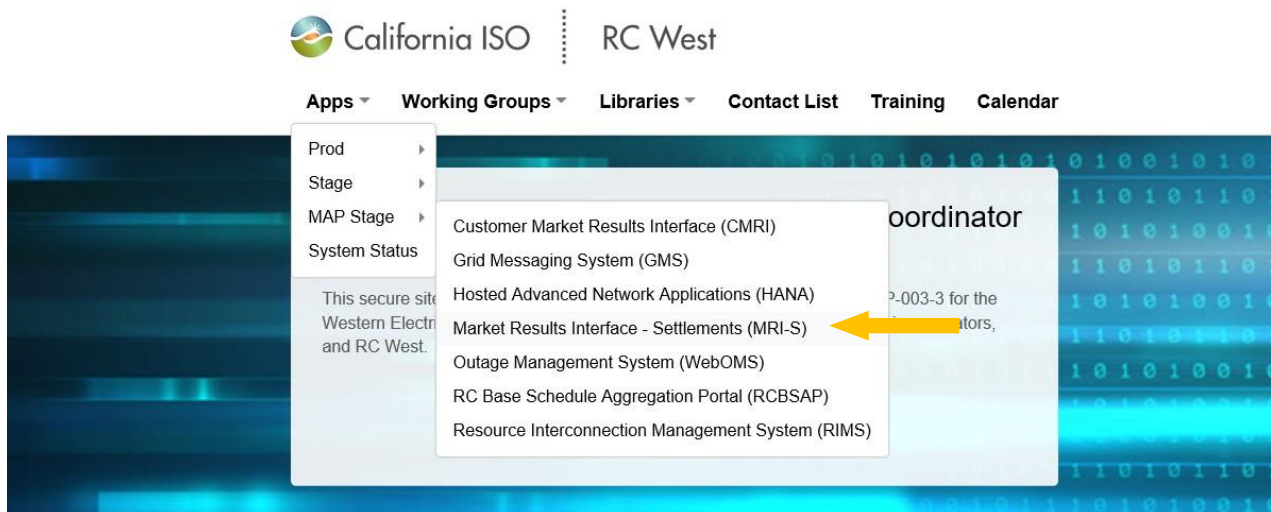
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Accessing MRI-Settlements via RC West Portal – RC Customers

Once logged into the Portal, the next step is to access the MRI-Settlements page of the Portal.

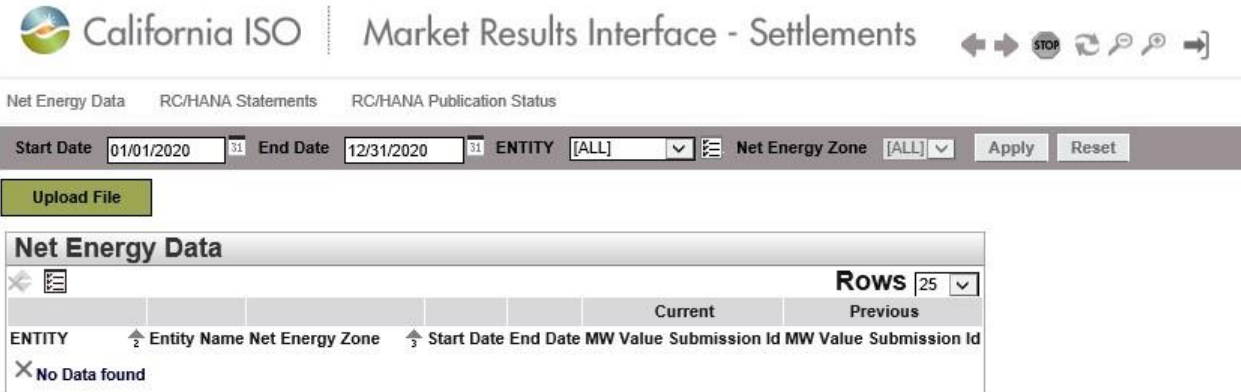
STEP	ACTION	RESULT
1	Click on “Apps” tab on the Portal	Drop down options will appear for different environments
2	Click on “MAP Stage”	Drop down options will appear to the right of the arrow
3	Click on “Market Results Interface – Settlements (MRI-S)”	Market Results Interface – Settlements page will open in new window

Following is an example of the Portal home page:



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An example of the MRI-Settlements page is shown in the following figure:



California ISO | Market Results Interface - Settlements

Net Energy Data | RC/HANA Statements | RC/HANA Publication Status


Start Date: 01/01/2020 | End Date: 12/31/2020 | ENTITY: [ALL] | Net Energy Zone: [ALL] | Apply | Reset

Upload File

Net Energy Data

Rows: 25

ENTITY	Entity Name	Net Energy Zone	Start Date	End Date	MW Value	Submission Id	Current	Previous
No Data found								

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Submitting Net Energy Load/Net Generation Volumes in MRI-S

RC Entities are responsible for NEL/NG* yearly volume data during MAP-Stage Data Validation and Production.

- Direct bill TOPs with no NEL/NG are required to enter zero(s) for their volume submission.
- Value should be in Total MWh (granularity can be up to 8 decimal places; Single value for the entire year, using the previous year volume data. (i.e. For the billing period 2020, please use 2018 data submitted by September 30th, 2019.)


*Net Energy for Load (NEL) – Net Balancing Authority Area generation, plus energy received from other Balancing Authority Areas, less energy delivered to Balancing Authority Areas through interchange. It includes Balancing Authority Areas losses but excludes energy required for storage at energy storage facilities. Net Energy for Load equals NERC/WECC Metered Demand for the CAISO Balancing Authority Area.

*Net Generation (NG) – Net power available from a Generating Facility to be fed into the power system at the high side of the Generating Facility transformer(s). Net generation is equal to gross generation minus the generator’s internal power usage (station service).

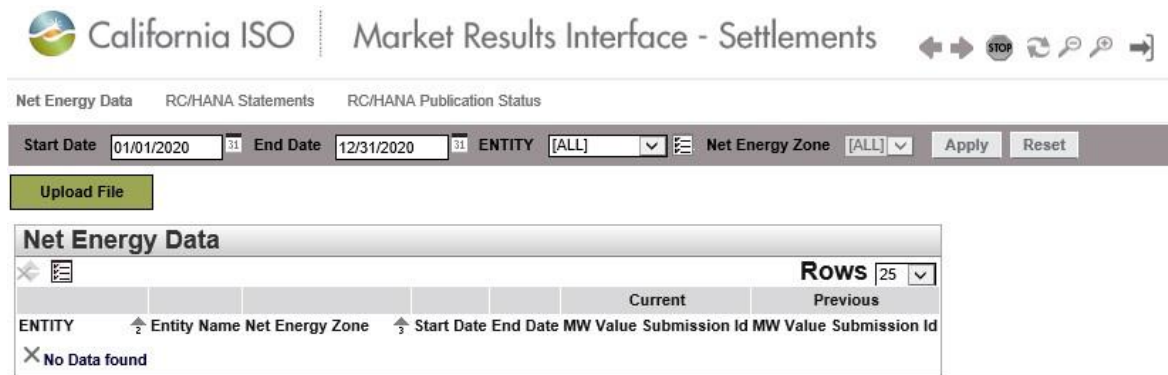
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1. Upload Annual NEL/NG* volumes in MWh (in MRI-S, using XML File)

STEP	ACTION	RESULT
1	Log into Portal: https://portal.caiso.com/settlements/logon.do	MRI-S Portal Home Page
2	Click on “Net Energy Data” tab	Net Energy Data page
3	Click on “Upload File”	New “Upload Net Energy Data File” window will open.
4	Click “Browse”	New Windows Browser screen will appear.
5	Navigate to the file you wish to upload. Click “Open.”	The “Upload Net Energy Data File” window will reappear containing the XML File to upload.
6	Click “Upload”	XML File will be uploaded to the Net Energy Data tab.
7	Confirm NEL data submission successful	Confirmation of submission successful. If error occurs, contact Service Desk.

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Step 1: Navigate MRI-Settlements Portal Home Page (If you are Market and RC customer, you will see Settlements tab for market invoices and Reliability Coordination tab for RC invoices)



California ISO | Market Results Interface - Settlements

Net Energy Data | RC/HANA Statements | RC/HANA Publication Status

Start Date: 01/01/2020 | End Date: 12/31/2020 | ENTITY: [ALL] | Net Energy Zone: [ALL] | Apply | Reset

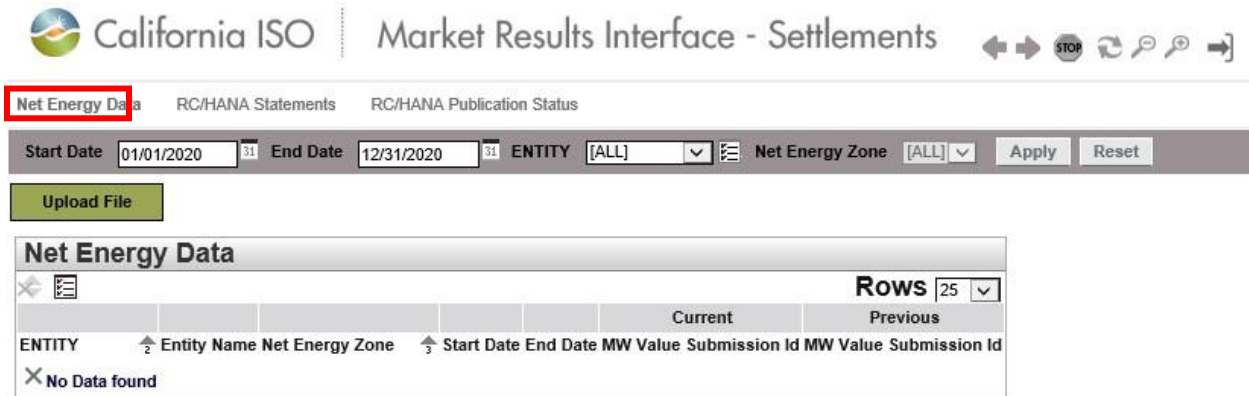
Upload File

Net Energy Data

Rows: 25

		Current		Previous	
ENTITY	Entity Name	Net Energy Zone	Start Date	End Date	MW Value
No Data found					

Step 2: Click on “Net Energy Data” tab



California ISO | Market Results Interface - Settlements

Net Energy Data | RC/HANA Statements | RC/HANA Publication Status


Start Date: 01/01/2020 | End Date: 12/31/2020 | ENTITY: [ALL] | Net Energy Zone: [ALL] | Apply | Reset

Upload File

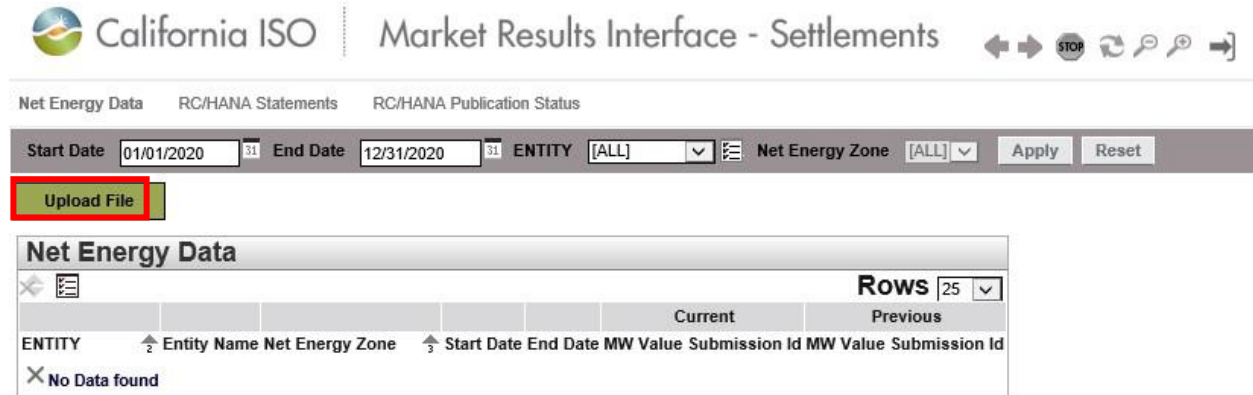
Net Energy Data

Rows: 25

		Current		Previous	
ENTITY	Entity Name	Net Energy Zone	Start Date	End Date	MW Value
No Data found					

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Step 3: Click on “Upload File”



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Net Energy Data RC/HANA Statements RC/HANA Publication Status

Start Date 01/01/2020 31 End Date 12/31/2020 31 ENTITY [ALL] Net Energy Zone [ALL] Apply Reset

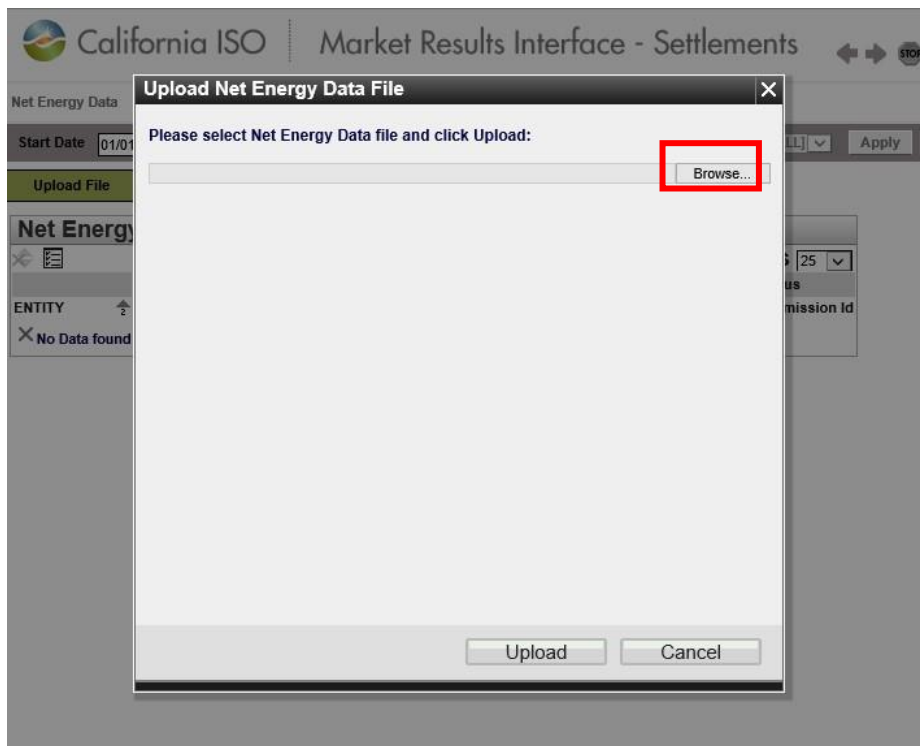
Upload File

Net Energy Data

Rows 25

ENTITY	Entity Name	Net Energy Zone	Start Date	End Date	MW Value	Submission Id	MW Value	Submission Id
No Data found								

Step 4: Click on “Browse”



California ISO Market Results Interface - Settlements

Net Energy Data

Start Date 01/01/2020 31 End Date 12/31/2020 31 ENTITY [ALL] Net Energy Zone [ALL] Apply Reset

Upload File

Net Energy Data

Rows 25


ENTITY	Entity Name	Net Energy Zone	Start Date	End Date	MW Value	Submission Id	MW Value	Submission Id
No Data found								

Upload Net Energy Data File

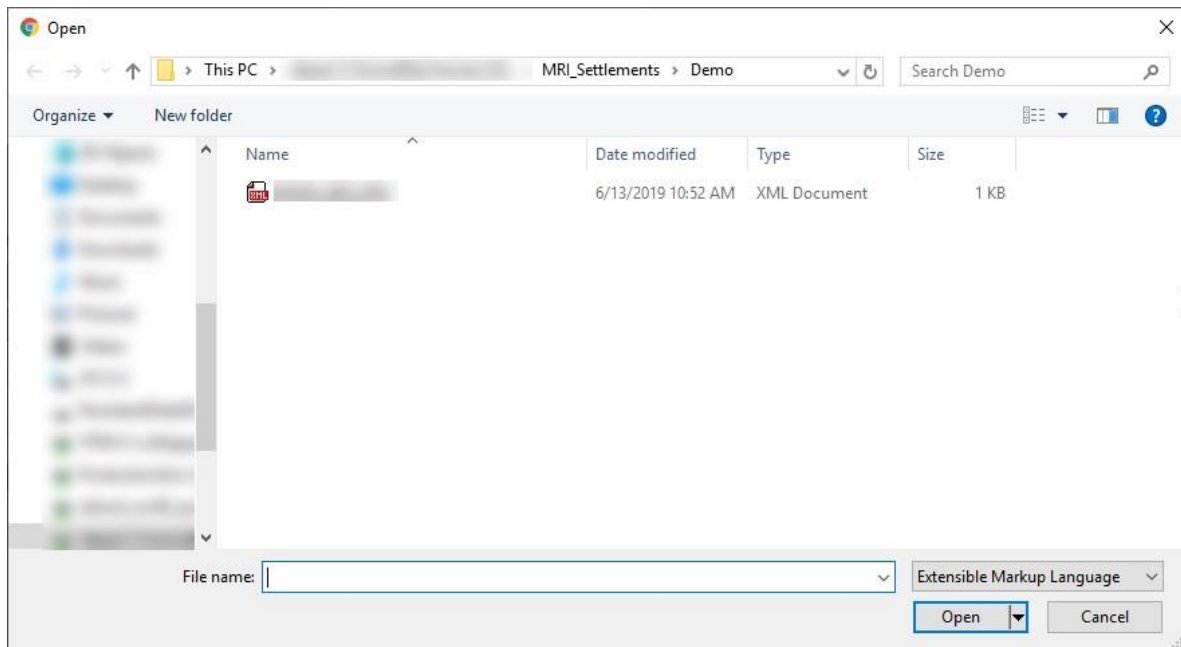
Please select Net Energy Data file and click Upload:

Browse...

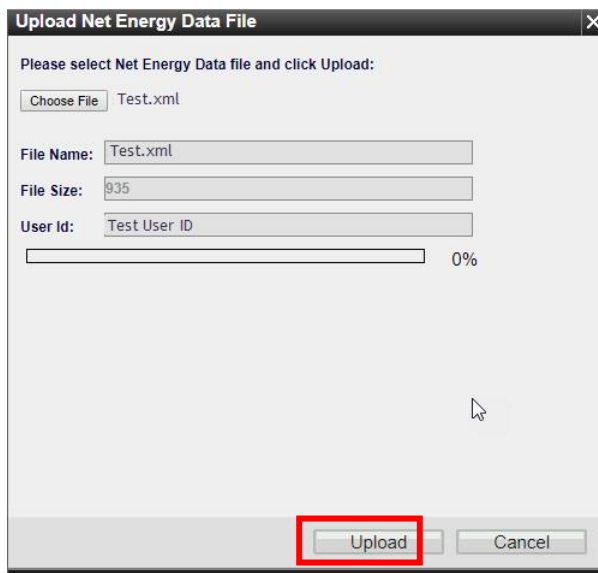
Upload Cancel


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Step 5: Navigate to file to upload. Click “Open”




Step 6: Click on “Upload”




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Step 7: Confirm successful submission. (If error occurs and it cannot be fixed and resubmitted, contact Service Desk.)

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Submit Annual NEL/NG* volumes in MWh (in MRI-S, using UI)

STEP	ACTION	RESULT
1	Log into Portal: https://portal.caiso.com/settlements/logon.do	MRI-S Portal Home Page
2	Click on “Net Energy Data” tab	Net Energy Data page
3	Select Net Energy Zone	Selected Net Energy zone will be displayed
4	Select Trade Period (Defaulted to current billing period)	Trade date will be displayed
5	Enter the billing volume	Billing Volume will be displayed
6	Review the information and Click “Submit”	Volume data will be submitted
7	Confirm NEL data submission successful	Confirmation of submission successful. If error occurs, contact Service Desk.

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Net Energy Data
2
RC/HANA Statements
RC/HANA Publication Status

Start Date 31
 End Date 31
 ENTITY ▼
Net Energy Zone ▼

Enter Net Energy Data

Net Energy Zone: ▼ 3

Trade Period 31
 31 4

NEL/NG (In MWh): (Up to 8 digits before decimal point and up to 8 digits after decimal point) 5

6


Net Energy Data

Rows ▼

ENTITY	Entity Name	Net Energy Zone	Start Date	End Date	MW Value	Submission Id	MW Value	Submission Id
						Current	Previous	
<input type="button" value="✕"/> No Data found								


10/03/2019 12:58:12 Net Energy Data Submission is successful. 7

i CONNECTED
10/03

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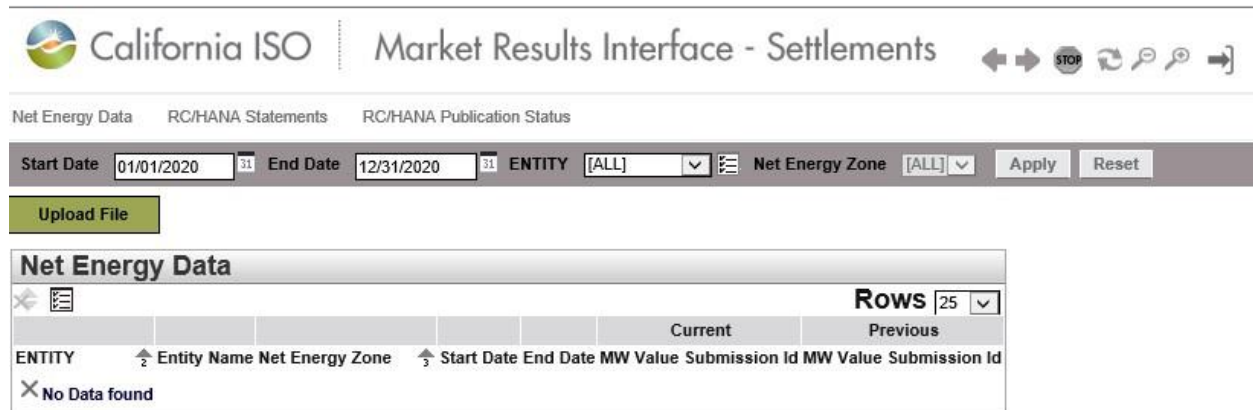
2. Download RC Informational Statement, Settlement Statements and Invoices

STEP	ACTION	RESULT
1	Login to MRI-S Portal – Home Page: https://portal.caiso.com/settlements/logon.do	MRI-S Portal Home Page
2	Click on “RC/HANA Statements” tab	RC/HANA Statements page
3	Navigate to “File Type” field: Select one of the following options from the drop down menu: <ul style="list-style-type: none"> - Business Associate (BA) Bill Determinants - Configuration Output Files - Invoices - Settlement Statements - CAISO Bill Determinants 	Leave field as default (“ALL”) to display all available files. For more narrowed search, select File Type and further drop down options in other fields will become available.
4	Navigate to “Entity” field (optional)	Leave field as default (“ALL”) to display all available files.
5	Navigate to “Run Type” field: (if applicable) Select one of the following options from the drop down menu: <i>BA Bill Determinants/Settlement Statements options:</i> <ul style="list-style-type: none"> - RC Services Informational - RC Services Initial - RC Services Recalc - HANA Initial <i>Invoice options:</i> <ul style="list-style-type: none"> - RC Services Invoices - HANA Invoices 	Leave field as default (“ALL”) to display all available files or make a selection from the drop down for a more narrowed search.
6	Navigate to “Trade Date” field (optional) (optional) – clear out default dates	Clear out default dates.
7	Navigate to “Post Date From:” and “Post Date To:” fields (optional)	Clear out default dates

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8	Navigate to “Version” field (optional) select “ALL” to display all available.	Leave as default (“ALL”) to display all available versions.
9	Click “Apply”	Display of available files based on your selections will appear.
10	Select the entity to generate downloadable files	File formats available for download vary based on entity selected.
11	Click on the “Download” buttons to open file(s)	File will be downloadable in Zip format. Files need to unzip before viewed.

Step 1: Login to MRI-Settlements home page



California ISO Market Results Interface - Settlements

Net Energy Data RC/HANA Statements RC/HANA Publication Status

Start Date: 01/01/2020 End Date: 12/31/2020 ENTITY: [ALL] Net Energy Zone: [ALL] Apply Reset

Upload File

Net Energy Data Rows: 25

ENTITY	Entity Name	Net Energy Zone	Start Date	End Date	MW Value	Submission Id	MW Value	Submission Id
No Data found								

Step 2: Click on “RC/HANA Statements” tab




California ISO Market Results Interface - Settlements

Net Energy Data **RC/HANA Statements** RC/HANA Publication Status

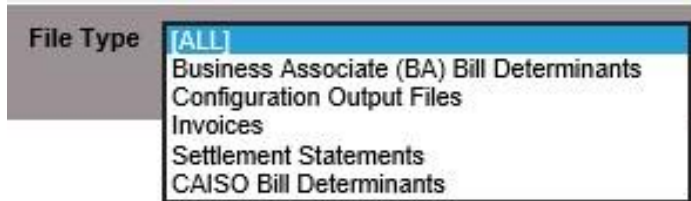
File Type: [ALL] ENTITY: [ALL] Run Type: [ALL] Trade Date: Post Date From: Post Date To: Apply Reset

RC/HANA Statements

SELECT	XML	CSV	PDF	ENTITY	Name	Trade Date	Post Date	Version
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			09/01/2019	07/25/2019	9
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			09/01/2019	07/25/2019	3
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			09/01/2019	07/25/2019	3
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			01/01/2020	07/23/2019	5
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			01/01/2020	07/23/2019	5

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Step 3: Navigate to “File Type” field – leave as default or select desired File Type



A screenshot of a software interface showing a dropdown menu for 'File Type'. The menu is open, displaying the following options: [ALL], Business Associate (BA) Bill Determinants, Configuration Output Files, Invoices, Settlement Statements, and CAISO Bill Determinants.

Step 4: Navigate to “Entity” field (optional) – leave as default or select desired Entity



A screenshot of a software interface showing a dropdown menu for 'ENTITY'. The menu is open, displaying the option: [ALL].

Step 5: Navigate to “Run Type” field (if applicable) – leave as default or select desired Run Type.




A screenshot of a software interface showing a dropdown menu for 'Run Type'. The menu is open, displaying the following options: [ALL], RC Services Informational, RC Services Invoices, RC Services Initial, RC Services Recalc, HANA Invoices, HANA Initial, and RC/HANA Services Configuration.

Step 6: Navigate to “Trade Date” field (optional)



A screenshot of a software interface showing date selection fields. The 'Trade Date' field is set to 31. The 'Post Date From:' field is set to 31, and the 'Post Date To:' field is set to 31.

Step 7: Navigate to “Post Date From:” and “Post Date To:” fields – clear out default values if you need to filter for different dates.

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Post Date From:

Post Date To:

Step 8: Navigate to “Version” field (optional)

ENTITY Run Type

Version

Step 9: Click “Apply”

File Type ENTITY Run Type Trade Date Post Date From:


Version

Step 10: Select the entity to generate downloadable files

RC/HANA Statements				Name	Trade Date	Post Date	Version
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		09/01/2019	07/25/2019	9
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		09/01/2019	07/25/2019	3
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		09/01/2019	07/25/2019	3
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		01/01/2020	07/23/2019	5
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		01/01/2020	07/23/2019	5
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		07/02/2019	07/10/2019	1
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		01/01/2020	07/10/2019	3
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		01/01/2020	07/10/2019	3

Step 11: Click on the “Download” buttons to open file(s)

RC/HANA Statements				Name	Trade Date	Post Date	Version
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		09/01/2019	07/25/2019	9
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		09/01/2019	07/25/2019	3
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		09/01/2019	07/25/2019	3
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		01/01/2020	07/23/2019	5
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		01/01/2020	07/23/2019	5
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		07/02/2019	07/10/2019	1
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		01/01/2020	07/10/2019	3
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		01/01/2020	07/10/2019	3


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Section 2

Market Results Interface - Settlements



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Market Results Interface (MRI) - Settlements

Objectives

This section includes information on how to access and download Settlements files using the Market Results Interface (MRI) – Settlements. After reading this section, you should be able to:


- Locate Settlements files
- Search for Settlements files
- Download the files in the following formats, as applicable: XML, CSV, PDF

Overview

Scheduling Coordinators will be able to access their Settlements files using the MRISettlements. This interface includes all Settlements related files, including Statements, Bill Determinants (BD), Invoices, Configuration Output file etc. The files that are accessible are results of running the Settlements calculations. This Interface allows Scheduling Coordinators to retrieve read only files containing Settlements data related to market transactions specific to their resources.

 **Important to Note**


As the information contained within the reports is proprietary, SCs will only be authorized to access their own files.

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The various Settlements files that **CAN** be found in the MRI-Settlements include:

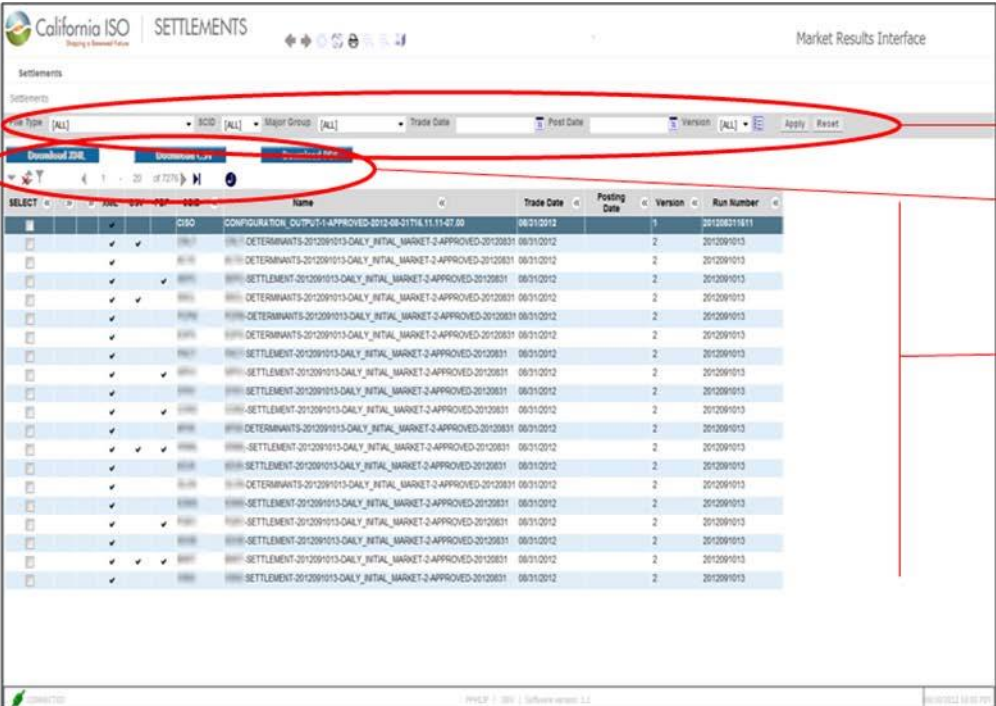
- Daily Settlement Statement files for all Settlement Run Types
- Monthly Settlement Statement files for all Settlement Run Types
- Daily SC specific Bill Determinants (BD) files for all Settlement Run Types
- Monthly SC specific Bill Determinants (BD) files for all Settlement Run Types
- Daily CAISO Bill Determinants (BD) files for all Settlement Run Types
- Monthly CAISO Bill Determinants (BD) files for all Settlement Run Types
- Invoice files
- Configuration Output files

The various Settlements files and their descriptions can be found in the Settlements Interface Specification document at <http://www.caiso.com/market/Pages/Settlements/Default.aspx>

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Interface Features

The following illustration shows an *example* of a screen that an end-user will see online, and further discusses the major parts of the interface.



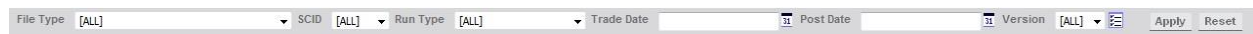
The screenshot displays the 'SETTLEMENTS' section of the Market Results Interface. A red oval highlights the search parameters area, which includes dropdown menus for 'New Type', 'SCID', 'Major Group', 'Trade Date', 'Post Date', and 'Version', along with 'Apply' and 'Reset' buttons. Below this is a toolbar with icons for search, refresh, and other functions. The main area shows a table of search results with columns for Name, Trade Date, Posting Date, Version, and Run Number. Red arrows point from labels on the right to these specific interface elements.

Name	Trade Date	Posting Date	Version	Run Number
CONFIGURATION OUTPUT-1-APPROVED-2012-08-31T16:11:51-47:00	08/31/2012		1	201208311811
DETERMINANTS-2012091013-DAILY_INITIAL_MARKET-2-APPROVED-20120831	08/31/2012		2	2012091013
DETERMINANTS-2012091013-DAILY_INITIAL_MARKET-2-APPROVED-20120831	08/31/2012		2	2012091013
SETTLEMENT-2012091013-DAILY_INITIAL_MARKET-2-APPROVED-20120831	08/31/2012		2	2012091013
DETERMINANTS-2012091013-DAILY_INITIAL_MARKET-2-APPROVED-20120831	08/31/2012		2	2012091013
DETERMINANTS-2012091013-DAILY_INITIAL_MARKET-2-APPROVED-20120831	08/31/2012		2	2012091013
SETTLEMENT-2012091013-DAILY_INITIAL_MARKET-2-APPROVED-20120831	08/31/2012		2	2012091013
DETERMINANTS-2012091013-DAILY_INITIAL_MARKET-2-APPROVED-20120831	08/31/2012		2	2012091013
DETERMINANTS-2012091013-DAILY_INITIAL_MARKET-2-APPROVED-20120831	08/31/2012		2	2012091013
SETTLEMENT-2012091013-DAILY_INITIAL_MARKET-2-APPROVED-20120831	08/31/2012		2	2012091013
DETERMINANTS-2012091013-DAILY_INITIAL_MARKET-2-APPROVED-20120831	08/31/2012		2	2012091013
DETERMINANTS-2012091013-DAILY_INITIAL_MARKET-2-APPROVED-20120831	08/31/2012		2	2012091013
SETTLEMENT-2012091013-DAILY_INITIAL_MARKET-2-APPROVED-20120831	08/31/2012		2	2012091013
DETERMINANTS-2012091013-DAILY_INITIAL_MARKET-2-APPROVED-20120831	08/31/2012		2	2012091013
DETERMINANTS-2012091013-DAILY_INITIAL_MARKET-2-APPROVED-20120831	08/31/2012		2	2012091013
SETTLEMENT-2012091013-DAILY_INITIAL_MARKET-2-APPROVED-20120831	08/31/2012		2	2012091013
DETERMINANTS-2012091013-DAILY_INITIAL_MARKET-2-APPROVED-20120831	08/31/2012		2	2012091013
DETERMINANTS-2012091013-DAILY_INITIAL_MARKET-2-APPROVED-20120831	08/31/2012		2	2012091013
SETTLEMENT-2012091013-DAILY_INITIAL_MARKET-2-APPROVED-20120831	08/31/2012		2	2012091013
DETERMINANTS-2012091013-DAILY_INITIAL_MARKET-2-APPROVED-20120831	08/31/2012		2	2012091013
DETERMINANTS-2012091013-DAILY_INITIAL_MARKET-2-APPROVED-20120831	08/31/2012		2	2012091013
SETTLEMENT-2012091013-DAILY_INITIAL_MARKET-2-APPROVED-20120831	08/31/2012		2	2012091013

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1 Search Parameters

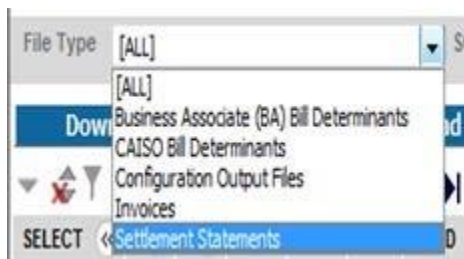
This section contains a set of parameters available for user interaction, to provide an opportunity to limit the output of a report. For example, if a user would like to see the files specific to a trade date, then the specific trade date can be entered in the Trade Date field.



File Type

This parameter is used to narrow down the search based on the file types. The file types available are:


- Business Associate Bill Determinants
- CAISO Bill Determinants
- Configuration Output Files
- Invoices
- Settlements Statements



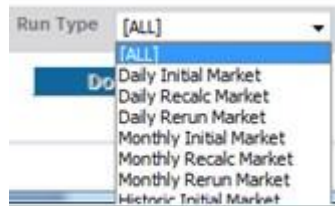
SCID

All the SCIDs that are provisioned in the digital certificate of a user are available in the drop down list for the user to narrow the search based on SC ID.

Run Type

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This input parameter allows the user to search for specific run types. The full list of run types and their details are available in the Settlements Interface Specification document.



Trade Date


The user is able to search for files specific to a Settlement trade date. The user is able to type in the trade date or select from a calendar.

The format for typing in the trade date is mm/dd/yyyy. Clicking on the Calendar icon to the right of the field will cause a calendar to open in a different window from which the user can select the date.



Post Date

The user is able to search for files specific to a Settlement files Posting Date. The posting date for Settlement files are aligned with the CAISO payment calendar posted on the CAISO website. The Configuration Output files are posted when a change in configuration rules are made during the deployment of Settlements releases. The posting of the configuration output file is communicated with the SCs during the new release process. The user is able to type in the post date or select from a calendar.

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The format for typing in the post date is mm/dd/yyyy. Clicking on the Calendar icon to the right of the field will cause a calendar to open in a different window from which the user can select the date.



Version

The user can select a specific version of the Settlement file to download. The various versions of the Settlements files are described in the Settlements Interface Specification document. The icon to the right of this field allows for multiple versions to be selected.




Apply & Reset

The Apply button will cause the interface to accept all the filter conditions selected by the user and process the output. The Reset button will clear the user selections thereby allowing the user to input a new set of filter conditions or clear the filter conditions to see all available files.



2 **Toolbar**

The toolbar contains a set of controls available.

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Download Buttons


These buttons enables the user to download the Settlement files in any of the three formats: XML, CSV or PDF. The three buttons are disabled till the user selects the files to be downloaded.



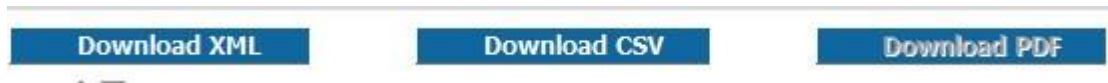
MRI provides the user with three columns specifying the format in which the files are available. These formats are made available based on the requests submitted by the SCs. Depending on the format that is available, the CSV, PDF and/or XML columns are checked.

XML	CSV	PDF
✓		
✓		
✓		
✓		
✓		
✓		
✓		
✓	✓	
✓	✓	
✓	✓	✓
✓	✓	
✓	✓	

When the user selects files in multiple formats, all buttons for those formats become active. For example, if a user selects a file in XML and another in CSV

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format, both the “Download XML” and “Download CSV” buttons become active as seen below.



Other Controls



The Hide button allows the user to hide the output panel.


Restore Sort button allows the user to remove any column sorts that have been previously set by the user by clicking on specific column headers.

Inline Filter button allows the user to have a way to filter the results even further based on the results of the main filtering.

Paging Controls



Enables the user to page through the output sequentially, go to the first or last page, or go to a specific page.

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3 *Search Results*

This section contains details on results generated by running the search parameters.

The following is a screen shot of the header column of the results set.




The following are the column headers available:

- Select
- File Type
- Run Type
- XML
- CSV
- PDF
- SCID
- Name
- Trade Date
- Post Date
- Version
- Run Number

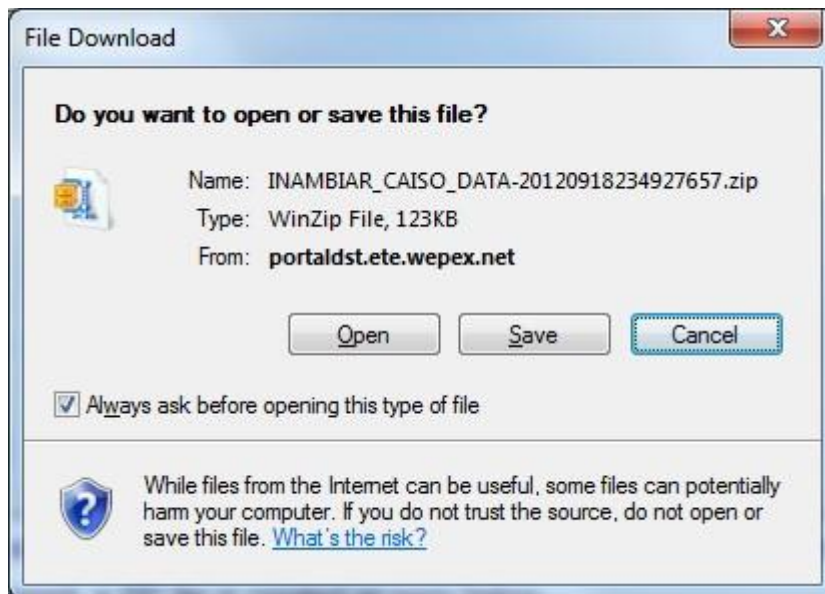
Any of these columns can be collapsed or expanded using the   buttons.

Clicking on any of the column headers will result in the results to be sorted based on that column. The first click will result in the column to be sorted in ascending order and the second click will result in the column to be sorted in descending order.

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Download Features

When the user selects a file or multiple files and selects the appropriate Download button for the format that is desired, a ZIP file is created as seen below.




The file name will always have the naming convention as


<CertificateID>- CAISO_DATA-YYYYMMDDHH24MISSFFF.zip

The timestamp at the end of the file name represents the timestamp to the millisecond level when the request for the file was made.

The user can either Save or Open the ZIP file. Upon opening the ZIP file, the user can extract the individual file(s) requested.

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CAISO Bill Determinants Download Features



Filter

File Type: CAISO Bill Determinants

SCID: [ALL]

Run Type: [ALL]


Trade Date: 05/09/2018

Post Date From:

Post Date To:

Version: [ALL]

Apply
Reset




Display all the CAISO bill determinant files.

Settlements

SELECT XML CSV PDF SCID Name
Trade Date
Post Date
Version External


<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	CISO-DETERMINANTS-2018051511-DAILY_INITIAL_MARKET-1-APPROVED-20180509	05/09/2018	05/15/2018	1	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	CISO_AZPS-DETERMINANTS-2018051511-DAILY_INITIAL_MARKET-1-APPROVED-20180509	05/09/2018	05/15/2018	1	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	CISO_BCHA-DETERMINANTS-2018051511-DAILY_INITIAL_MARKET-1-APPROVED-20180509	05/09/2018	05/15/2018	1	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	CISO_EIM_AREA-DETERMINANTS-2018051511-DAILY_INITIAL_MARKET-1-APPROVED-20180509	05/09/2018	05/15/2018	1	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	CISO_IPCO-DETERMINANTS-2018051511-DAILY_INITIAL_MARKET-1-APPROVED-20180509	05/09/2018	05/15/2018	1	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	CISO_NEVP-DETERMINANTS-2018051511-DAILY_INITIAL_MARKET-1-APPROVED-20180509	05/09/2018	05/15/2018	1	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	CISO_PACE-DETERMINANTS-2018051511-DAILY_INITIAL_MARKET-1-APPROVED-20180509	05/09/2018	05/15/2018	1	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	CISO_PACW-DETERMINANTS-2018051511-DAILY_INITIAL_MARKET-1-APPROVED-20180509	05/09/2018	05/15/2018	1	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	CISO_PGE-DETERMINANTS-2018051511-DAILY_INITIAL_MARKET-1-APPROVED-20180509	05/09/2018	05/15/2018	1	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	CISO_PSEI-DETERMINANTS-2018051511-DAILY_INITIAL_MARKET-1-APPROVED-20180509	05/09/2018	05/15/2018	1	<input checked="" type="checkbox"/>



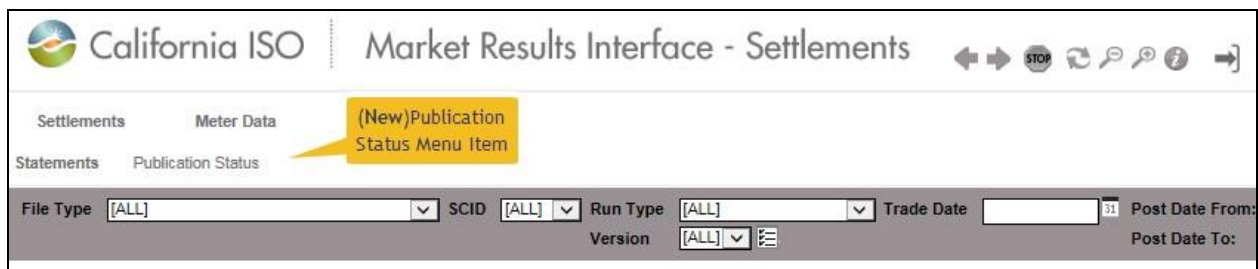
All files are available for download.

The CAISO bill determinants file is split into multiple files for file size manageability. There will be a separate bill determinants file for each BAA. The CAISO BAA file retains the original name format (“CISO-DETERMINANTS-RunNumber-SettlementType-Version-Status-TradeDate”), while the EIM BAA files reflect the corresponding EIM IDs in the file name (“CISO_EIMIDDETERMINANTS-RunNumber-SettlementType-Version-Status-TradeDate”).

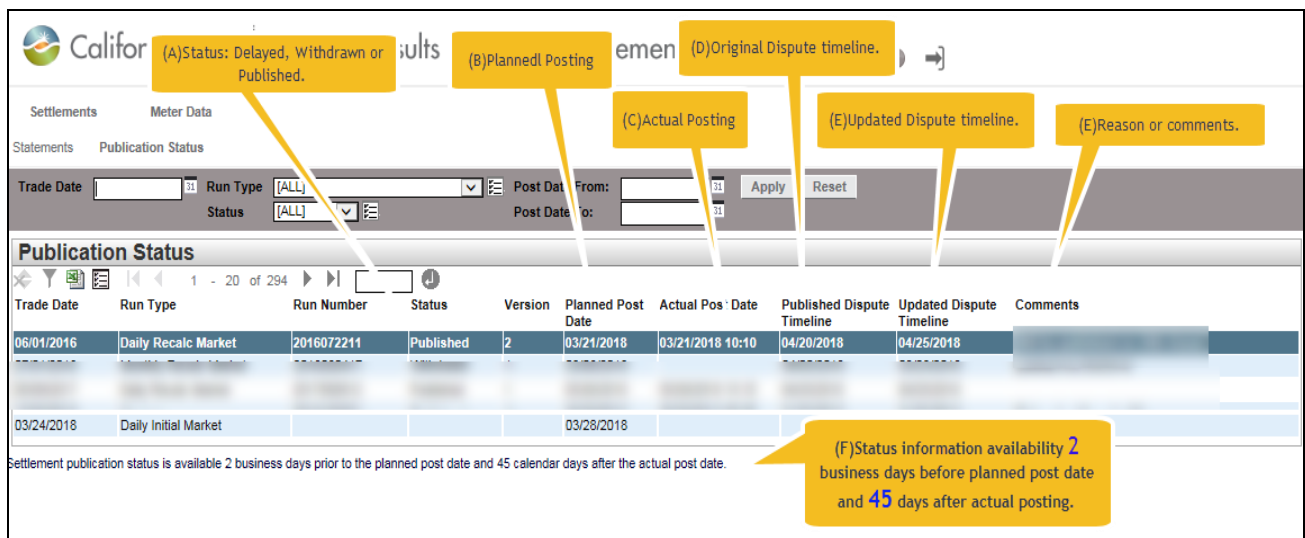
Statements and Invoice Status Features

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New Menu Item “Publication Status” is added in the Market Results Interface – Settlements. The filtering of the data is through File Type, SCID, Run Type, Version, Trade date and posting date from/to.




The “Publication Status” Interface.



Trade date

Run Type

Run Number

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Status: Published, Delayed or Withdrawn

Version

Planned Post Date: Planned post date based on CAISO payment calendar Actual

Post Date: Will differ from Planned Post Date if delayed.

Published Dispute Timeline. Dispute timeline based on the CAISO payment calendar. Updated

Dispute Timeline. Will differ from Published Dispute Timeline if delayed.

Comments.