



California ISO

# Technology User Group (TUG)

February 18, 2020

10:00 – 11:00 AM Pacific

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# TUG Agenda

Web Conference Information		Conference Call Information	
<i>URL</i>	<a href="https://caiso.webex.com/meet/CAISO-TUG">https://caiso.webex.com/meet/CAISO-TUG</a>	<i>Domestic Call-In</i>	(866) 528-2256
<i>Meeting Number</i>	966 010 353	<i>International Call-In</i>	(216) 706-7052
<i>Access Code</i>	389 588 9	<i>Access Code</i>	389 588 9

  

Topic	Facilitator
Agenda and Roll Call	Doug Walker
System Interface Changes	Neela Alla
CMRI – Release Notes Update	Neela Alla
DRRS Update	Eureka Cullado
CAISO's B2B Integration Improvements	Ajay Mannepalli
Ongoing Initiatives	Doug Walker

# System Interface Changes

## SIBR/BSAP

System	Project	Change Type	API Service Name & Major Version, Artifacts	MAP Stage	Production Activation	Technical Specifications
SIBR	CCDEBE1	Modify	<a href="#">RetrieveCleanBidSet_SIBRv5</a> <a href="#">RetrieveCleanBidSet_SIBRv5_DocAttach</a>	Oct 16, 2019	Apr/May 2020	<a href="#">13.2</a>
SIBR	CCDEBE1	Modify	<a href="#">RetrieveCurrentBidResults_SIBRv5</a> <a href="#">RetrieveCurrentBidResults_SIBRv5_DocAttach</a>	Oct 16, 2019	Apr/May 2020	<a href="#">13.2</a>
SIBR	CCDEBE1	Modify	<a href="#">SubmitRawBidSet_SIBRv5</a> <a href="#">SubmitRawBidSet_SIBRv5_DocAttach</a>	Oct 16, 2019	Apr/May 2020	<a href="#">13.2</a>
BSAP	EIM2019	Modify	<a href="#">RetrieveBalancingTestResults_BSAPv2</a> <a href="#">RetrieveBalancingTestResults_BSAPv2_DocAttach</a>	Oct 16, 2019	Feb 2020	<a href="#">1.7.3</a>

## CMRI

Project	Change Type	UI Change	API Service Name & Major Version, Artifacts	MAP Stage	Production Activation	Technical Specifications
LMPME CCDEBE1	Modify	Tab: Default Bids Existing Report: Default Energy Bid Curves	<a href="#">RetrieveDefaultBidCurves_CMRIv2</a> <a href="#">RetrieveDefaultBidCurves_CMRIv2_DocAttach</a>	LMPME - Sep 12, 2019 CCDEBE - Nov 6, 2019	LMPME - Nov 13, 2019 CCDEBE – Apr/May 2020	<a href="#">3.9.3</a>
CCDEBE1	Modify	Tab: Default Bids Existing Report: Default Commitment Costs	<a href="#">RetrieveExternalDefaultCommitmentCost_CMRIv1</a> <a href="#">RetrieveExternalDefaultCommitmentCost_CMRIv1_DocAttach</a>	Nov 11, 2019	Apr/May 2020	<a href="#">3.9.3</a>

# System Interface Changes

## MRI-S

Project	Change Type	UI Change	API Service Name & Major Version, Artifacts	MAP Stage	Production Activation	Technical Specifications
MRI-S API AUP	AUP	N/A	Retrieve Services: RetrieveMeterData_STLMTv1_AP RetrieveMeterData_STLMTv1_DocAttach_AP	Dec 4, 2019	Feb 26, 2020	<a href="#">2.3</a>

## OASIS

Project	Change Type	UI Change	API Service Name & Major Version, Artifacts	MAP Stage	Production Activation	Technical Specifications
CRR Data Transparency Enhancements	Modify	Modify Congestion Revenue Rights > CRR Aggregated Revenue Adjustment Data	CRR_AGG_REV_ADJ  Add 4 new columns: DIRECTION IFM_NET_FLOW_MW CLAWBACK_REV CIR_SCH_REV	Feb 2020	Apr 15, 2020	<a href="#">5.1.11</a>

## MMD

Project	Change Type	CSV Change	Data Change	MAP Stage	Production Activation	Technical Specifications
CRR Data Transparency Enhancements	Data	No Changes to Shift Factors CSV Format/Structure - Same Columns/Column Names	Apnode shift factors will be delivered in the same file as the Pnode shift factors  The value in the existing 'Node Name' column will have "-APND" at the end to identify Apnodes	Feb 18, 2020	Apr 15, 2020	N/A

# CMRI Upcoming Release for CCDEBE and RC West

Please refer to release notes posted on [developer.caiso.com](http://developer.caiso.com)

## CMRI Customer Market Results Interface

HOME / APPS / CMRI

### Overview

CMRI is a reporting interface that contains private market information resulting from the ISO and EIM market processes: MPM, IFM, RUC, HASP, and Real-Time. This includes schedules and awards, resource-specific prices, default and mitigated bids, unit commitments, instructions, EIM base schedules, and EIM test results.

#### Resources

- [CMRI documentation](#)
- [CMRI UI screenshot](#)
- [HTTP Error Codes](#)
- [Connectivity Test](#)

[View UI Environments](#)

### Release Notes

NAME	STATUS	RELEASE	LAST UPDATED
CMRI 7.1.x Release Notes v1.0 (Fall 2019 Release).pdf	UPCOMING	Fall 2019	1/16/2020

### Tech Specs

Release schedule – to be communicated

# DRRS- Incremental Data Retrieve (Locations, Registrations)

- Existing API always provides a “**full**” set of latest recs: Registrations & Locations
- Alternate API to only provide incremental data changes (enhancement #62584)

## Request:

Existing request filters (DRP,LSE,UDC,status,...)  
 + optional “*modified since*” datetimestamp

## Response:

Recs created/updated on dates  $\geq$   
 “*modified since*” datetimestamp

Recs created/updated on dates  $\geq$   
 “*modified since*” datetimestamp AND DRP=“ABCD”

### System

Locations		
Rec1	New	09/10/2019
Rec2	Active	10/01/2019
Rec3	Inactive	10/01/2019
Rec4	New	10/22/2019

Locations		
Rec1	New	09/15/2019
Rec2	Active	10/01/2019
Rec3	Inactive	10/01/2019
Rec4	New	10/22/2019
Rec5	Active	11/15/2019
Rec6	Inactive	11/15/2019
Rec7	End-dated	11/16/2019

### Response

Locations		
Rec1	New	09/10/2019
Rec2	Active	10/01/2019
Rec3	Inactive	10/01/2019
Rec4	New	10/22/2019

Locations		
Rec5	Active	11/15/2019
Rec6	Inactive	11/15/2019
Rec7	End-dated	11/16/2019

Retrieve records  
since **09/10/2019**

Retrieve records  
since **11/15/2019**

Note: “*modified since*” datetimestamp = not included in the response/output

- Release schedule – to be communicated

# CAISO B2B Improvements

- **Goals**

- Enhance the developer experience working with CAISO Web API's
- Provide API's in REST/JSON using OpenAPI 3.0 specification
- Provide examples, mock services and tooling to generate client/server stubs and SDK
- Provide tests for the API's using Postman collections and/or SOAPUI projects
- Collaboration using Git and forums on [developer.caiso.com](https://developer.caiso.com)
- Simplify authentication using X.509 certificates and API keys

- **Update**

- The B2B improvements initiative was kicked off on 2/11
- B2B API improvements discussion will happen at the end of every TUG on a bi-weekly basis and will also have another standalone bi-weekly webinar every other week starting the week of Feb 10th.
- Discussion forum functionality is now live on <https://developer.caiso.com>
- Acceptable Use Policy document is being updated to reflect the current implementation and will be presented in the next TUG on Mar 3<sup>rd</sup>



# Ongoing Initiatives

# MRI-S API Acceptable Use Policy

- In order to ensure system stability and performance, ISO is planning to implement AUP for the MRI-S application API:
  - Impacts only retrieve meter data service
  - It **does not** impact retrieve batch validation and submit meter data services.
  - Allows a user to retrieve meter data service request once every 30 seconds.
  - Participants can submit/retrieve other service requests within the same time period (*i.e. 30 seconds*)
  - The user will receive the following error message if the same service is submitted or retrieved within 30 seconds:
    - *“CAISO MRI-S Acceptable Use Policy Violation. Please retry your request again in 30 seconds from now. Note: Time resets each time you request before expiration.”*
  - Technical Specification document is updated with this information.
  - **Based on market participant feedback, the ISO has delayed the deployment until 26 February 2020.**

# Next TUG: Mar 03, 2020

Contact for Questions & Agenda Requests: Indu Nambiar, [inambiar@caiso.com](mailto:inambiar@caiso.com)

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