



California ISO

# Technology User Group (TUG)

February 04, 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		Indu Nambiar	
System Interface Changes		Trang Deluca	
CMRI – Release Notes Update		Neela Alla	
CAISO's B2B Integration Improvements		Ajay Mannepalli	
Ongoing Initiatives		Indu Nambiar	

# 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	12/10/2019	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>

## DRRS

Project	Change Type	UI Change	API Service Name & Major Version, Artifacts	MAP Stage	Production Activation	Technical Specifications
N/A – Incremental Data Retrieve	New	TBD	TBD	TBD	TBD	TBD

# CMRI Upcoming Release for CCDEBE and RC West

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

# 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**

- We have volunteers signed up for the B2B Improvements discussion and proof of concept.
- 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 and external Git repository is coming soon
- Acceptable Use Policy document is being updated to reflect the current implementation and will be presented in the next TUG on Feb 18<sup>th</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.**

## DRRS- Incremental Data Retrieve

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

### Request:

“*modified since*” date, and/or status,...

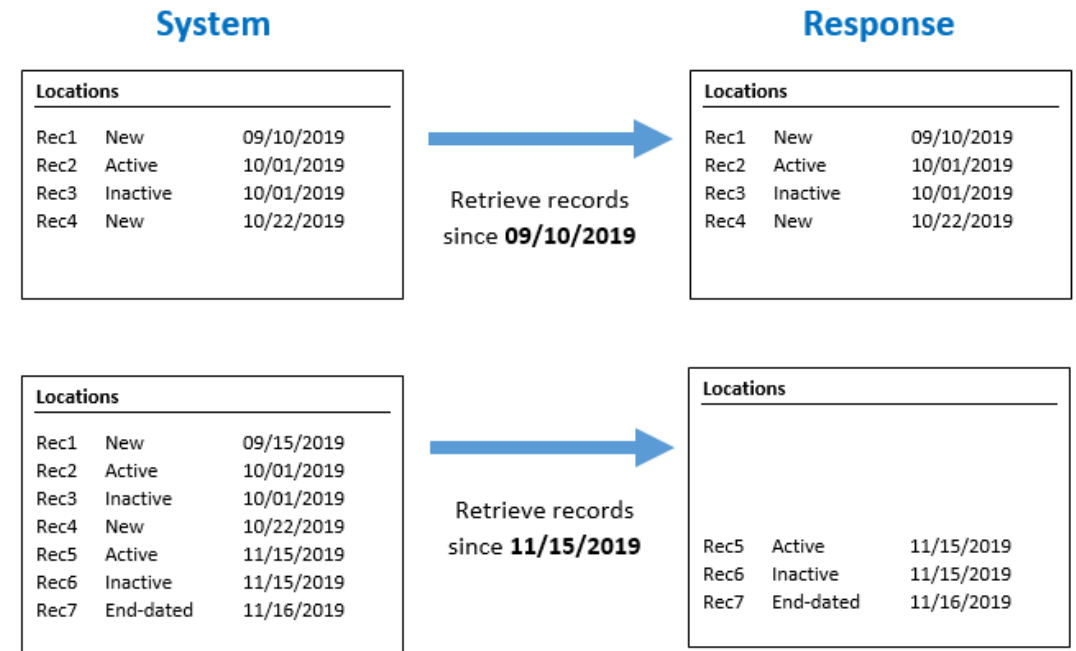
### Response:

Recs created/updated on dates  $\geq$

“*modified since*” date

Recs created/updated on dates  $\geq$

“*modified since*” date AND “Active”



- Release schedule – to be communicated

# Next TUG: Feb 18, 2020

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

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