



# Technology User Group (TUG)

March 03, 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 Vo
CMRI – Release Notes Update	Neela Alla
MRI-S AUP Update	Justin Wong
CAISO's B2B Integration Improvements	Ajay Mannepalli
Daylight Saving Time Transition	Trang Vo
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	Deployment Mar 2020 Activation May 2020	<a href="#">13.2</a>
SIBR	CCDEBE1	Modify	<a href="#">RetrieveCurrentBidResults_SIBRv5</a> <a href="#">RetrieveCurrentBidResults_SIBRv5_DocAttach</a>	Oct 16, 2019	Deployment Mar 2020 Activation May 2020	<a href="#">13.2</a>
SIBR	CCDEBE1	Modify	<a href="#">SubmitRawBidSet_SIBRv5</a> <a href="#">SubmitRawBidSet_SIBRv5_DocAttach</a>	Oct 16, 2019	Deployment Mar 2020 Activation May 2020	<a href="#">13.2</a>
BSAP	EIM2019	Modify	<a href="#">RetrieveBalancingTestResults_BSAPv2</a> <a href="#">RetrieveBalancingTestResults_BSAPv2_DocAttach</a>	Oct 16, 2019	Deployment Mar 2020 Activation Mar 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 – Deployment Mar 2020 Activation 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	Deployment Mar 2020 Activation 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	Mar 02, 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	N/A	Apr 15, 2020	N/A

# Fall 2020 Release - System Interface Changes *Draft*

## ADS

Project	Change Type	Summary	Technical Specifications	MAP Stage	Production Activation
ADS Replacement DOTTC	Modify	v7: Instructions to include Unannounced AS Test information	By May 29, 2020	Jul 27, 2020	Oct 01, 2020

## DRRS

Project	Change Type	Summary	Technical Specifications	MAP Stage	Production Activation
ESDER3B	Modify	DRRegistrationData xsd LSE for PDR Registrations	By May 29, 2020	Jul 27, 2020	Oct 01, 2020

## MRI-S

Project	Change Type	Summary	Technical Specifications	MAP Stage	Production Activation
Excess Behind the Meter Production	Modify	For: <ul style="list-style-type: none"> <li>- MRIS Meter: Submit Meter &amp;</li> <li>- MRIS Meter: Retrieve Meter</li> </ul> additionally include EBtMP measurement type values (as negative load)  both Gross Load and EBtMP meter data would associate with same Load Resource ID	By May 29, 2020	Jul 27, 2020	Jan 01, 2021

# 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

# 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.
  - **The ISO has deployed the AUP in production on 26 February 2020.**



# 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
- Simplify authentication using X.509 certificates and API keys

- **Update**

- POC updates are posted on developer forum at <https://developer.caiso.com/forum/topics.aspx?ForumID=4>
- AUP document has been updated to reflect the current implementation at <https://developerint.oa.caiso.com/Documents/TechnicalSpecifications-AcceptableUsePolicyImplementation.pdf>
- POC will include both the contract first options, but one option will be chosen for final implementation.
  - OpenAPI with REST/JSON
  - REST with existing XSD's
- SOAP Web services roadmap will be published after POC completion
- Services we will use for the POC
  - RetrieveSchedulePrices\_CMRIv4
  - SubmitRawBidSet\_SIBRv4
  - SubmitMeterData\_STLMTv1
  - RetrieveDRLocations\_DRRSv4

## Daylight Saving Time Transition

Sunday, March 8, 2020 02:00 AM is the Daylight Saving Time (DST) transition from ST (Standard Time) to DT (Daylight Time).

Please review

<http://www.caiso.com/Documents/DaylightSavingTimeShortDayInformation.pdf> for information on how the transition will occur in the ISO systems.

# Ongoing Initiatives

# 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

# Next TUG: Mar 17, 2020

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

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