



California ISO

# Technology User Group (TUG)

June 11, 2019

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
OASIS Production Update	Neela Alla
Revised Tech Spec Template	Indu Nambiar
Ongoing Initiatives	Indu Nambiar

# System Interface Changes: MF

Release	Project	Change Type	API Service Name & Major Version, Artifacts	Minor Version	RDT	MAP Stage	Production Activation	Technical Specifications
Fall 2019	ESDER3A LMPME CCE3	Modify	<a href="#">RetrieveGeneratorRDT_MFRDv4</a> <a href="#">RetrieveGeneratorRDT_MFRDv4_DocAttach</a>	20191001		Sep 3, 2019	Nov 13, 2019	<a href="#">5.0</a>
Fall 2019	ESDER3A LMPME	Modify	<a href="#">SubmitGeneratorRDT_MFRDv4</a> <a href="#">SubmitGeneratorRDT_MFRDv4_DocAttach</a>	20191001	<a href="#">GRDT v13.0</a>	Sep 3, 2019	Nov 13, 2019	<a href="#">5.0</a>

# System Interface Changes: SIBR, BSAP

System	Release	Project	Change Type	API Service Name & Major Version, Artifacts	MAP Stage	Production Activation	Technical Specifications
SIBR	Fall 2019	CCDEBE1	Modify	<a href="#">RetrieveCleanBidSet_SIBRv5</a> <a href="#">RetrieveCleanBidSet_SIBRv5_DocAttach</a>	Sep 3, 2019	Nov 13, 2019	<a href="#">v13</a>
SIBR	Fall 2019	CCDEBE1	Modify	<a href="#">RetrieveCurrentBidResults_SIBRv5</a> <a href="#">RetrieveCurrentBidResults_SIBRv5_DocAttach</a>	Sep 3, 2019	Nov 13, 2019	<a href="#">v13</a>
SIBR	Fall 2019	CCDEBE1	Modify	<a href="#">SubmitRawBidSet_SIBRv5</a> <a href="#">SubmitRawBidSet_SIBRv5_DocAttach</a>	Sep 3, 2019	Nov 13, 2019	<a href="#">v13</a>
BSAP	Fall 2019	EIM 2019	Modify	<a href="#">RetrieveBalancingTestResults_BSAPv2</a> <a href="#">RetrieveBalancingTestResults_BSAPv2_DocAttach</a>	Sep 3, 2019	Nov 13, 2019	<a href="#">1.5</a>

# System Interface Changes: CMRI

Release	Project	Change Type	Customer Impact	UI Change	API Service Name & Major Version, Artifacts	MAP Stage	Production Activation	Technical Specifications
2019	RCSI	New	RC	New Tab: Reliability Coordination New Report: Load Forecast	RetrieveRCLoadForecast_CMRI_v1 RetrieveRCLoadForecast_CMRI_v1_DocAttach	Feb 1, 2019	Jul 1, 2019	<a href="#">1.0.0</a>
Fall 2019	CCDEBE1	Modify	CAISO Market	Tab: Default Bids Existing Report: Default Energy Bid Curves	<a href="#">RetrieveDefaultBidCurves_CMRIv2</a> <a href="#">RetrieveDefaultBidCurves_CMRIv2_DocAttach</a>	Sep 3, 2019	Nov 13, 2019	<a href="#">3.9.0</a>
Fall 2019	LMPME	Modify	CAISO Market	Tab: Default Bids Existing Report: Default Commitment Costs	<a href="#">RetrieveExternalDefaultCommitmentCost_CMRIv1</a> <a href="#">RetrieveExternalDefaultCommitmentCost_CMRIv1_DocAttach</a>	Sep 3, 2019	Nov 13, 2019	<a href="#">3.9.0</a>
Fall 2019	EIM 2019	New	EIM	Tab: Energy Imbalance Market New Report: Resource Operating Limits	<a href="#">RetrieveEIMResourceOperatingLimit_CMRIv1</a> <a href="#">RetrieveEIMResourceOperatingLimit_CMRIv1_DocAttach</a>	Sep 3, 2019	Nov 13, 2019	<a href="#">3.9.0</a>
Fall 2019	EIM 2019	New	CAISO Market	Tab: Real-Time New Report: Resource Operating Limits	<a href="#">RetrieveResourceOperatingLimit_CMRIv1</a> <a href="#">RetrieveResourceOperatingLimit_CMRIv1_DocAttach</a>	Sep 3, 2019	Nov 13, 2019	<a href="#">3.9.0</a>

# System Interface Changes: OASIS

Release	Project	Change Type	Customer Impact	UI Change	API Service Name & Major Version, Artifacts	MAP Stage	Production Activation	Technical Specifications
Fall 2019	EIM 2019	New		Tab: ENERGY New Report: Transmission Loss	TBD	Sep 3, 2019	Nov 13, 2019	TBD

# System Interface Changes: OMS

Release	Project	Change Type	API Service Name & Major Version	MAP Stage	Production Activation	Technical Specifications	Artifacts
2019	RCSI	Modify*  <i>*While the CAISO supports two major versions of API, the CAISO strongly recommends moving to the latest one (v3)</i>	RetrieveAvailabilityResults_OMSv2 RetrieveAvailabilityResults_OMSv2_DocAttach  RetrieveResourceOutage_OMSv3 RetrieveResourceOutage_OMSv3_DocAttach  RetrieveResourceOutageChangeRequest_OMSv3 RetrieveResourceOutageChangeRequest_OMSv3_DocAttach  RetrieveTransmissionOutage_OMSv3 RetrieveTransmissionOutage_OMSv3_DocAttach  RetrieveTransmissionOutageChangeRequest_OMSv3 RetrieveTransmissionOutageChangeRequest_OMSv3_DocAttach  SubmitResourceOutage_OMSv3 SubmitResourceOutage_OMSv3_DocAttach  SubmitResourceOutageChangeRequest_OMSv3 SubmitResourceOutageChangeRequest_OMSv3_DocAttach  SubmitTransmissionOutage_OMSv3 SubmitTransmissionOutage_OMSv3_DocAttach  SubmitTransmissionOutageChangeRequest_OMSv3 SubmitTransmissionOutageChangeRequest_OMSv3_DocAttach	Feb 28, 2019	June 17, 2019	<a href="#">2.0</a>	<a href="#">Artifacts</a>



# System Interface Changes: ALFS, RCBSAP, RCEIDE, STLMT

System	Release	Project	Change Type	API Service Name & Major Version	MAP Stage	Production Activation	Technical Specifications	Artifacts
ALFS	2019	RCSI	New	SubmitExternalEntity5MinLoadForecast_ALFSv1 SubmitExternalEntity5MinLoadForecast_ALFSv1_DocAttach  SubmitExternalEntity15MinLoadForecast_ALFSv1 SubmitExternalEntity15MinLoadForecast_ALFSv1_DocAttach  SubmitExternalEntity60MinLoadForecast_ALFSv1 SubmitExternalEntity60MinLoadForecast_ALFSv1_DocAttach	Feb 1, 2019	Jul 1, 2019	<a href="#">1.0.0</a>	<a href="#">Artifacts</a>
RCBSAP	2019	RCSI	New	RetrieveRCBaseScheduleResults_RCBSAPv1 RetrieveRCBaseScheduleResults_RCBSAPv1_DocAttach  SubmitRCBaseSchedule_RCBSAPv1 SubmitRCBaseSchedule_RCBSAPv1_DocAttach	Feb 1, 2019	Jul 1, 2019	<a href="#">1.1</a>	<a href="#">Artifacts</a>
RCEIDE	2019	RCSI	New	PutSchedule_RC	Feb 1, 2019	Jul 1, 2019	<a href="#">1.03</a>	<a href="#">Artifacts</a>
STLMT	2019	RCSI	New	SubmitNetEnergyData_STLMTv1 SubmitNetEnergyData_STLMTv1_DocAttach  *For RC Customers outside of the CAISO BA to submit Net Energy for Load and Net Generation	June 2019	TBD	<a href="#">1.0</a>	<a href="#">1.0</a>

# OASIS Production Data Retrieval Issues

Functional variance for Groupzip files starting 2/19/2019 that resulted in market participants being unable to retrieve complete price information.

- Issues encountered:
  - Corrupt files - Resolved for trade dates 5/25 and going forward.
  - Empty files - Resolved for trade dates 5/25 and going forward.
  - Partial files - Resolved for trade dates 4/19 and going forward.
  - Missing Intervals - Resolved for trade dates 4/19 and going forward.
  - Files >300MB - Resolved for trade dates 5/9 and going forward.
- We have been regenerating the files reported via CIDI tickets and making the data available within 3 business days.
- **If this message is returned: “<m:ERR\_DESC> GroupZip DownLoad is in Processing, Please Submit request after Sometime</m:ERR\_DESC>”, the API file generation process has initiated, and the users must retry the request to retrieve the completely generated file at a later time.**
- With these changes, there is NO impact to any of the existing reports data or functionality.
- CAISO requests to use the latest supported version as mentioned in the Tech Specs for application programming interfaces (API)

Please refer to latest tech specs on <https://developer.caiso.com>

# Revised Technical Specification Template

## CAISO Technical Specification template changes

- Standardization
- Efficient
- Lean

### Proposed changes include:

- Document release notes with service level change details
- Sample XMLs posted outside the document
- Simplified element table to remove redundant information
- Section for service specific use model
- Consolidated list of service artifacts for supported versions

Revised template is available at:

<http://www.caiso.com/Documents/TechnicalSpecification-Template-TechnicalUserGroup.pdf>

# Ongoing Initiatives

# Fall 2019 - Technical Specification Updates

The technical specification updates for all applications that are impacted for Fall 2019 are detailed in the agenda for the TUG call on May 28, 2019 and can be found at:

<http://www.caiso.com/Documents/Agenda-TechnicalUserGroupWebConferenceMay282019.pdf>

# CMRI Improvements

CAISO is planning CMRI UI Upgrade & Performance Improvements

- Performance Improvements
  - Technology/Infrastructure Upgrade
  - Data Model Normalization
    - Data migration needed due to data model normalization for schedules and schedule prices
    - Data migration process has been verified in Non-Production environment. Current Plan:
      - » Complete the data migration and cut over to new UI and performance improvements.
      - » After cutover, users will have access to all the data.
      - » ISO will communicate CMRI performance improvements patch deployment time line.
- Market Participant Testing prior to Production deployment.
  - UI is available for testing in MAP Stage environment as of June 6, 2019
  - API will be available for testing in MAP Stage environment mid-June, 2019
- NO API interface changes and NO functionality changes.
- CAISO requests to use the latest supported version as mentioned in the Tech Specs for application programming interfaces (API)
- Please refer to latest tech specs on <https://developer.caiso.com>

CMRI UI changes that are expected as part of this effort were presented in the TUG call on May 14, 2019 and can be found at:

[http://www.caiso.com/Documents/Agenda-TechnicalUserGroupWebConference-May14\\_2019.pdf](http://www.caiso.com/Documents/Agenda-TechnicalUserGroupWebConference-May14_2019.pdf)

# Standardization of time format for data submissions & data requests

- ISO is implementing the use of standard date time format for all B2B data submissions
- Current formats that are accepted:
  - 2019-07-10T00:00:00-07:00 – offset of 7 hours based on Pacific Daylight Time
  - 2019-01-20T00:00:00-08:00 – offset of 8 hours based on Pacific Standard Time
  - 2019-01-20T08:00:00-00:00 – Timestamp in GMT/UTC
  - 2019-07-10T07:00:00Z – Timestamp in GMT/UTC
- Future acceptable formats (to match the response from ISO):
  - 2019-04-20T07:00:00-00:00 – Timestamp in GMT/UTC
  - 2019-04-20T07:00:00Z – Timestamp in GMT/UTC
  - OR
  - 2019-12-20T08:00:00-00:00 – Timestamp in GMT/UTC
  - 2019-12-20T08:00:00Z – Timestamp in GMT/UTC
- Implementation Plan
  - Technical Specifications Updated with accepted format - Fall 2019 Release
  - Enforcement of new format - **Fall 2020 Release**

# Next TUG: June 25, 2019

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

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