



California ISO

Technology User Group (TUG)

June 25, 2019

10:00 – 11:00 AM Pacific

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TUG Agenda

Web Conference Information		Conference Call Information	
<i>URL</i>	https://caiso.webex.com/meet/CAISO-TUG	<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
Balancing Test Results XSD Changes	Wendell Tamblyn
System Interface Changes	Trang Deluca
OASIS Production Update	Neela Alla
DRS Decommission	Eureka Cullado
Ongoing Initiatives	Indu Nambiar

BSAP update to Technical Specifications for v1.6

For the Balancing Test Results there were changes made to accommodate making a request by Market Type.

- This was added in support of RC Day Ahead processes which use the DA Load Forecast.
- The marketType element is added in the Request and also in the Balancing Test Results for v2.
 - This is not a required element when making the request.
 - If no marketType is specified on the request, both the DAM and RTM will be returned if there are Base Schedules.
 - If RTM is supplied only RTM will be returned, likewise for DAM if only DAM is requested.

The artifacts and Tech Specs have been updated on the developer site.

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

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	RetrieveGeneratorRDT_MFRDv4 RetrieveGeneratorRDT_MFRDv4_DocAttach	20191001		Sep 3, 2019	Nov 13, 2019	5.0
Fall 2019	ESDER3A LMPME	Modify	SubmitGeneratorRDT_MFRDv4 SubmitGeneratorRDT_MFRDv4_DocAttach	20191001	GRDT v13.0	Sep 3, 2019	Nov 13, 2019	5.0

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	RetrieveCleanBidSet_SIBRv5 RetrieveCleanBidSet_SIBRv5_DocAttach	Sep 3, 2019	Nov 13, 2019	v13
SIBR	Fall 2019	CCDEBE1	Modify	RetrieveCurrentBidResults_SIBRv5 RetrieveCurrentBidResults_SIBRv5_DocAttach	Sep 3, 2019	Nov 13, 2019	v13
SIBR	Fall 2019	CCDEBE1	Modify	SubmitRawBidSet_SIBRv5 SubmitRawBidSet_SIBRv5_DocAttach	Sep 3, 2019	Nov 13, 2019	v13
BSAP	Fall 2019	EIM 2019	Modify	RetrieveBalancingTestResults_BSAPv2 RetrieveBalancingTestResults_BSAPv2_DocAttach	Sep 3, 2019	Nov 13, 2019	v1.6

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	1.0.0
Fall 2019	CCDEBE1	Modify	CAISO Market	Tab: Default Bids Existing Report: Default Energy Bid Curves	RetrieveDefaultBidCurves_CMRIv2 RetrieveDefaultBidCurves_CMRIv2_DocAttach	Sep 3, 2019	Nov 13, 2019	3.9.0
Fall 2019	LMPME	Modify	CAISO Market	Tab: Default Bids Existing Report: Default Commitment Costs	RetrieveExternalDefaultCommitmentCost_CMRIv1 RetrieveExternalDefaultCommitmentCost_CMRIv1_DocAttach	Sep 3, 2019	Nov 13, 2019	3.9.0
Fall 2019	EIM 2019	New	EIM	Tab: Energy Imbalance Market New Report: Resource Operating Limits	RetrieveEIMResourceOperatingLimit_CMRIv1 RetrieveEIMResourceOperatingLimit_CMRIv1_DocAttach	Sep 3, 2019	Nov 13, 2019	3.9.0
Fall 2019	EIM 2019	New	CAISO Market	Tab: Real-Time New Report: Resource Operating Limits	RetrieveResourceOperatingLimit_CMRIv1 RetrieveResourceOperatingLimit_CMRIv1_DocAttach	Sep 3, 2019	Nov 13, 2019	3.9.0

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	2.0	Artifacts

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	Jun 24, 2019	1.0.0	Artifacts
RCBSAP	2019	RCSI	New	RetrieveRCBaseScheduleResults_RCBSAPv1 RetrieveRCBaseScheduleResults_RCBSAPv1_DocAttach SubmitRCBaseSchedule_RCBSAPv1 SubmitRCBaseSchedule_RCBSAPv1_DocAttach	Feb 1, 2019	Jun 24, 2019	1.1	Artifacts
RCEIDE	2019	RCSI	New	PutSchedule_RC	Feb 1, 2019	Jun 24, 2019	1.03	Artifacts
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	1.0	1.0

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:
 - Issues Resolved for trade dates 5/25 and going forward
 - T-15 API call issue – Resolution is in progress.
- 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>

Demand Response System (DRS) – Decommissioning July 31, 2019

ESDER2 fall release 2018 project activation + 9 month transition period = DRS access/data availability ends on **July 31, 2019**

- *Applications*: User-Interface, APIs
- *Environments*: Market Simulation, Production

ACTION ITEM:

Market participants must download all production DRS application (historic location, registration, meter) data from the user-interface or available APIs prior to July 31, 2019, as this data will no longer be accessible for retrieval after this date.

Going forward, production submission & retrieval of demand response:

- Location and registration information will continue in the existing Demand Response Registration System (**DRRS**)
- Measurement information will continue in the existing **MRI-Settlements** system

Communication: Bronto message sent to all DRS & DRRS users

User-Interface

Production: <https://portal.caiso.com/sbm>

Market Simulation: <https://portalmap.caiso.com/sbm>

API Services

Aggregated Proxy Demand Resource Load, Generation and Compliance

- RetrievePDRAggregatedData_DRSv20100301_AP

Proxy Demand Resource Load and Generation Reduction

- RetrievePDRMeterData_DRS_AP
- RetrievePDRMeterData_DRSv20100301_AP
- RetrievePDRMeterData_DRSv20100301_DocAttach_AP

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>

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>

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 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

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: July 09, 2019

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