



California ISO

Technical User Group (TUG)

May 12, 2020

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
TUG Agenda Posting Update	Indu Nambiar
System Interface Changes	Trang Vo
ADS Replacement	Akm Ferdous
DRRS – Updated Tech Spec	Ibrahim Alatoum
CAISO’s B2B Integration Improvements	Ajay Mannepalli
Ongoing Initiatives	Indu Nambiar

TUG Agenda Posting Update

- As recommended by our Information Security department, we are moving our more technical information behind a password protected site to protect against nefarious actors.
- Over time, all technical information will be posted to the developer site rather on the public site.
- Going forward, only the agenda will be published on caiso.com with a link to the full presentation
- The full presentation will be available on the Developer site
- Video recording will also be made available only on the Developer site
- Existing agenda and recordings on caiso.com will not be impacted

Fall 2020 Release - System Interface Changes - CCDEBE1

SIBR					
Project	Change Type	API Service Name & Major Version, Artifacts	MAP Stage	Production	Technical Specifications
CCDEBE1	Modify	RetrieveCleanBidSet_SIBRv5_AP RetrieveCleanBidSet_SIBRv5_DocAttach_AP	✓ 10/16/19	✓ Deploy 3/26/20 Activation 10/1/20	13.2
CCDEBE1	Modify	RetrieveCurrentBidResults_SIBRv5_AP RetrieveCurrentBidResults_SIBRv5_DocAttach_AP	✓ 10/16/19	✓ Deploy 3/26/20 Activation 10/1/20	13.2
CCDEBE1	Modify	SubmitRawBidSet_SIBRv5_AP SubmitRawBidSet_SIBRv5_DocAttach_AP	✓ 10/16/19	✓ Deploy 3/26/20 Activation 10/1/20	13.2

CMRI						
Project	Change Type	UI	API Service Name & Major Version, Artifacts	MAP Stage	Production	Technical Specifications
LMPME CCDEBE1	Modify	Tab: Default Bids Existing Report: Default Energy Bid Curves	RetrieveDefaultBidCurves_CMRIv2_AP RetrieveDefaultBidCurves_CMRIv2_DocAttach_AP	LMPME ✓ 9/12/19 CCDEBE1 ✓ 11/6/19	LMPME ✓ 11/13/19 CCDEBE1 ✓ Deploy 3/26/20 Activation 10/1/20	3.9.4 Release Notes 1.2
CCDEBE1	Modify	Tab: Default Bids Existing Report: Default Commitment Costs	RetrieveExternalDefaultCommitmentCost_CMRIv1_AP RetrieveExternalDefaultCommitmentCost_CMRIv1_DocAttach_AP	✓ 11/11/19	✓ Deploy 3/26/20 Activation 10/1/20	3.9.4 Release Notes 1.2

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Fall 2020 Release - System Interface Changes

ADS					
Project	Change Type	Summary	Technical Specifications	MAP Stage	Production
ADS Replacement	Modify	v7: Instructions to include Unannounced AS Test information			
DOTTC		<i>There will be additional ADS changes that will be added here</i>	5/29/20	7/27/20	10/1/20

DRRS					
Project	Change Type	Summary	Technical Specifications	MAP Stage	Production
ESDER3B	Modify	RequestDRRegistrationData.xsd DRRegistrationData.xsd	✓ 5/1/20, v3.2	7/27/20	Deploy 9/14/20
ESDER3B	New	Alternate API to only retrieve incremental data changes (Locations, Registrations)	✓ 5/1/20, v3.2	7/27/20	Deploy 9/14/20
ESDER3B		Retrieval of the complete location approval process workflow details (LSE & UDC)	✓ 5/1/20, v3.2	7/27/20	Deploy 9/14/20
ESDER3B		Retrieval of location records that are under the defense process	✓ 5/1/20, v3.2	7/27/20	Deploy 9/14/20
ESDER3B		Retrieval of the location defense process workflow details (Incumbent & Prospective DRPs)	✓ 5/1/20, v3.2	7/27/20	Deploy 9/14/20

MRI-S					
Project	Change Type	Summary	Technical Specifications	MAP Stage	Production
EBTMP	Modify	For: - MRIS Meter: Submit Meter & - MRIS Meter: Retrieve Meter additionally include EBtMP measurement type values (as negative load) both Gross Load and EBtMP meter data would associate with same Load Resource ID	5/29/20	7/27/20	Activation 1/1/21

Fall 2020 Release - System Interface Changes

Master File				
Project	Summary	Technical Specifications	MAP Stage	Production
ESDER3B	Add enumeration to GRDT: DR_TYPE of PDR_LSR	5/29/20	7/27/20	10/1/20
FERC841 RA	New GRDT attribute: Apply Wholesale Charge	5/29/20	7/27/20	10/1/20
EIM2020	New GRDT attribute: Meter Data Interval	5/29/20	7/27/20	10/1/20
Other	Remove from GRDT: MIN_DISP_LEVEL	5/29/20	7/27/20	10/1/20
CCE Tariff	New GRDT attribute: Run of River	5/29/20	7/27/20	10/1/20
Slow DR	New GRDT attribute: Slow DR	5/29/20	7/27/20	10/1/20

CMRI				
Project	Summary	Technical Specifications	MAP Stage	Production
EIM2020	Available Balance Capacity Infeasibility Report Load Bias Report	5/29/20	7/27/20	10/1/20

OASIS				
Project	Summary	Technical Specifications	MAP Stage	Production
EBTMP	New OASIS EBtMP Performance Report	5/29/20	7/27/20	Activation 1/1/21

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ADS Replacement Update – ADS Query Tool Changes

- Key notes for ADS Query Tool changes are:
 - XML export option will not be available
 - Excel export option will be supported
 - Query tool data will be limited to 30 days (not 39 months)
- Some of the data set you would query from ADS Query tool is also available in the following CMRI Reports:
 - RTD Schedules, FMM Schedules & HASP Schedules.
- If you need additional ADS query tool data beyond 30 days, that is not in the CMRI reports, you must plan to download and accumulate data on your end.

DRRS – Updated Technical Specification

- New Tech Spec has been standardized across all CAISO apps
- New Tech Spec is more concise, easy to use and locate information
- New Tech Spec should be used along with XSD for Element description
- Service examples have been removed and uploaded to CAISO Developer site
- Most recent changes are at the top of every section impacted
- Updated Tech Spec Version 3.2 can be found at:

Clean –

<https://developer.caiso.com/Artifacts/DRRS/TechSpecs/DRRS%20Interface%20Specification%20v3.2.pdf>

Redline –

<https://developer.caiso.com/Artifacts/DRRS/TechSpecs/DRRS%20Interface%20Specification%20v3.2%20REDLINE.pdf>

- With the Fall 2020 release, v1 & v2 API services will be supported

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 and webinar notes are posted on developer forum at <https://developer.caiso.com/forum/topics.aspx?ForumID=4>. Next webinar will be on 5/19/2020.
- The CMRI SchedulePrices OpenAPI spec file at <https://git.caliso.org/CAISO/api-specs/src/branch/master/openapi/cmri-api.yaml> has been updated
- Mutual TLS with client certificates will remain the authentication model for the B2B POC
- Evaluate adding updateSinceDateTime query parameter across all services (similar to MRI-S and WebOMS)
- CAISO will internally discuss API versioning, pagination logic and authentication options for the WebAPI's and present the proposal during the next webinar
- The CA, server and client certificates for POC at available in api-specs git repository
- Mock service for SchedulePrices is available externally
- Validation of OpenAPI generator client stub code in Java and .NET is underway, and OpenAPI spec will be adjusted accordingly

Ongoing Initiatives

Version Management for OASIS & CMRI

- The Plan ahead
 - Version Management
 - Enforce the policy to support only two versions of services
 - Technical Specification will indicate supported and deprecated versions
 - Revised Technical Specification will be available on **5/29/2020**
 - Deprecated versions will be decommissioned on **9/1/2020**
 - Identifying patterns to embed information related to events resulting in failed market intervals within API and UI

Next TUG: May 26, 2020

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