

Technology User Group (TUG)

March 17, 2020

10:00 - 11:00 AM Pacific

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TUG Agenda

Web Conference	e Information	Conference Call Information		
URL	https://caiso.webex.com/meet/CAISO-TUG	Domestic Call-In	(866) 528-2256	
Meeting Number	966 010 353	International Call-In	(216) 706-7052	
Access Code	389 588 9	Access Code	389 588 9	

Topic	Facilitator
Agenda and Roll Call	Indu Nambiar
System Interface Changes	Trang Vo
CMRI – Release Notes Update	Neela Alla
OMS Update	Sandhya Balasubramanian
CAISO's B2B Integration Improvements	Ajay Mannepalli
DRRS Update	Eureka Cullado



System Interface Changes

SIBR/BSAP

System	Project	Change Type	API Service Name & Major Version, Artifacts	MAP Stage	Production Activation	Technical Specifications
SIBR	CCDEBE1	Modify	RetrieveCleanBidSet_SIBRv5	Oct 16, 2019	Deployment Mar 2020	<u>13.2</u>
SIBIC	CODEBET		RetrieveCleanBidSet_SIBRv5_DocAttach	Oct 16, 2019	Activation May 2020	
SIBR CCDEBE1 Modify	Modify	RetrieveCurrentBidResults SIBRv5	Oct 16, 2019	Deployment Mar 2020	12.2	
SIBR	CODEBET	Woully	RetrieveCurrentBidResults SIBRv5 DocAttach	Oct 16, 2019	Activation May 2020	<u>13.2</u>
CIDD	CCDEDE4	CCDEBE1 Modify	SubmitRawBidSet_SIBRv5	Oct 16, 2019	Deployment Mar 2020	42.2
SIBK	SIBR CCDEBE1		SubmitRawBidSet_SIBRv5_DocAttach		Activation May 2020	<u>13.2</u>
BSAP EIM2019	FINADOAO	IM2019 Modify	RetrieveBalancingTestResults_BSAPv2	Oct 16, 2019	Deployment Mar 2020	4.7.0
	EIM2019		RetrieveBalancingTestResults_BSAPv2_DocAttach		Activation Mar 2020	<u>1.7.3</u>

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	RetrieveDefaultBidCurves CMRIv2 RetrieveDefaultBidCurves CMRIv2 DocAttach	LMPME - Sep 12, 2019 CCDEBE - Nov 6, 2019	LMPME - Nov 13, 2019 CCDEBE – Deployment Mar 2020 Activation May 2020	<u>3.9.3</u>
CCDEBE1	Modify	Tab: Default Bids Existing Report: Default Commitment Costs	RetrieveExternalDefaultCommitmentCost CMRIv1 RetrieveExternalDefaultCommitmentCost CMRIv1 DocAttach	Nov 11, 2019	Deployment Mar 2020 Activation May 2020	3.9.3



System Interface Changes

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 03, 2020	Apr 15, 2020	<u>5.1.11</u>

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

OMS

Project	Change Type	API Service Name & Major Version, Artifacts	MAP Stage	Production Activation	Technical Specifications
N/A - Retire v1 services	Deprecation	RetrieveResourceOutage_OMSv1_AP & DocAttach RetrieveResourceOutageChangeRequest_OMSv1_AP& DocAttach RetrieveTransmissionOutage_OMSv1_AP & DocAttach RetrieveTransmissionOutageChangeRequest_OMSv1_AP & DocAttach SubmitResourceOutage_OMSv1_AP & DocAttach SubmitResourceOutageChangeRequest_OMSv1_AP & DocAttach SubmitTransmissionOutage_OMSv1_AP & DocAttach SubmitTransmissionOutageChangeRequest_OMSv1_AP & DocAttach	TBD	Mid-Apr , 2020	N/A



Fall 2020 Release - System Interface Changes *Draft*

ADS

Project	Change Type	Summary	Technical Specifications	MAP Stage	Production Activation
ADS Replacement	Modify	17. Instructions to include Unempounded AC Test information	Pv Mov 20, 2020	Iul 27, 2020	Oct 01, 2020
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
ESDER3B	New	Alternate API to only retrieve incremental data changes (Locations, Registrations)	By May 29, 2020	Jul 27, 2020	Oct 01, 2020
ESDER3B		Retrieval of the complete location approval process workflow details (LSE & UDC)	By May 29, 2020	Jul 27, 2020	Oct 01, 2020
ESDER3B		Retrieval of location records that are under the defense process	By May 29, 2020	Jul 27, 2020	Oct 01, 2020
ESDER3B		Retrieval of the location defense process workflow details (Incumbent & Prospective DRPs)	By May 29, 2020	Jul 27, 2020	Oct 01, 2020



Fall 2020 Release - System Interface Changes *Draft*

MRI-S

Project	Change Type	Summary	Technical Specifications	MAP Stage	Production Activation
Excess Behind the Meter Production	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	By May 29, 2020	Jul 27, 2020	Jan 01, 2021

Master File

Project	Change Type	Summary	Technical Specifications	MAP Stage	Production Activation
ESDER3B		Add enumeration to GRDT web service	By May 29, 2020	Jul 27, 2020	Oct 01, 2020
FERC841 Requested Adjustments		New GRDT attribute	By May 29, 2020	Jul 27, 2020	Oct 01, 2020
EIM 2020		New GRDT attribute	By May 29, 2020	Jul 27, 2020	Oct 01, 2020
Other		Remove MIN_LOAD from GRDT	By May 29, 2020	Jul 27, 2020	Oct 01, 2020



CMRI Upcoming Release for CCDEBE and RC West

Please refer to release notes posted on developer.caiso.com

CMRI Customer Market Results Interface HOME / APPS / CMRI Overview Resources ■ CMRI documentation 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 CMRI UI screenshot resource-specific prices, default and mitigated bids, unit commitments, instructions, EIM base ■ HTTP Error Codes ☑ schedules, and EIM test results. ■ 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



OMS Update

Propose to retire the following services mid-April, 2020:

- 3 participants are still using these services
 - RetrieveResourceOutage_OMSv1_AP
 - RetrieveResourceOutage_OMSv1_DocAttach_AP
 - RetrieveResourceOutageChangeRequest_OMSv1_AP
 - RetrieveResourceOutageChangeRequest_OMSv1_DocAttach_AP
- No participants are currently using these services
 - RetrieveTransmissionOutage_OMSv1_AP
 - RetrieveTransmissionOutage_OMSv1_DocAttach_AP
 - RetrieveTransmissionOutageChangeRequest_OMSv1_AP
 - RetrieveTransmissionOutageChangeRequest_OMSv1_DocAttach_AP
 - SubmitResourceOutage_OMSv1_AP
 - SubmitResourceOutage_OMSv1_DocAttach_AP
 - SubmitResourceOutageChangeRequest_OMSv1_AP
 - SubmitResourceOutageChangeRequest_OMSv1_DocAttach_AP
 - SubmitTransmissionOutage_OMSv1_AP
 - SubmitTransmissionOutage_OMSv1_DocAttach_AP
 - SubmitTransmissionOutageChangeRequest_OMSv1_AP
 - SubmitTransmissionOutageChangeRequest_OMSv1_DocAttach_AP



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://developer.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



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,...)

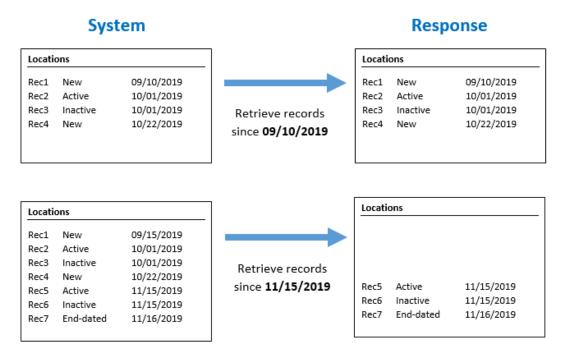
+ optional "modified since" datetimestamp

Response:

Recs created/updated on dates >= "modified since" datetimestamp

Recs created/updated on dates >= "modified since" datetimestamp AND DRP="ABCD"

Release schedule – part of ESDER3b project (Fall 2020)



Note: "modified since" datetimestamp = not included in the response/output



Other DRRS API Enhancements – part of Fall 2020 ESDER3B project

- Retrieval of the complete location approval process workflow details (LSE & UDC)
 - LSE Comments
 - LSE Reviewer
 - LSE Reviewer Contact Info
 - UDC Comments
 - UDC Reviewer
 - UDC Reviewer Contact Info
- Retrieval of location records that are under the defense process
- Retrieval of the location defense process workflow details (Incumbent & Prospective DRPs)
 - Incumbent DRP Comments
 - Incumbent DRP
 - Incumbent DRP Contact Info
 - Prospective DRP Comments
 - Prospective DRP
 - Prospective DRP Contact Info



Ongoing Initiatives



Next TUG: Mar 31, 2020

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