

Technical User Group (TUG)

April 28, 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
ADS Replacement	Akm Ferdous
OASIS & CMRI - Version Management	Swami Mahalingam
CAISO's B2B Integration Improvements	Ajay Mannepalli
Ongoing Initiatives	Indu Nambiar



System Interface Changes

OASIS						
Project	Change Type	UI	API Service Name & Major Version, Artifacts	MAP Stage	Production	Technical Specifications
			CRR_AGG_REV_ADJ			
		Tab: Congestion Revenue				
CRR Data		Rights	Add 4 new columns:			
Transparency	Modify	Existing Report: CRR	DIRECTION	√ 3/3/20	√ 4/15/20	5.1.11
Enhancements		Aggregated Revenue	IFM_NET_FLOW_MW			
		Adjustment Data	CLAWBACK_REV			
			CIR_SCH_REV			

MMD						
Project	Change Type	CSV	Data	MAP Stage	Production	Technical Specifications
CRR Data Transparency Enhancements		No Changes to Shift Factors CSV Format/Structure - Same	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	✓ TD 2/29/20 <u>Notice</u>	N/A



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System Interface Changes

OMS						
Project	Change Type	UI	API Service Name & Major Version, Artifacts	MAP Stage	Production	Technical Specifications
N/A: Retire v1 Services	Deprecation	N/A	RetrieveResourceOutage_OMSv1_AP RetrieveResourceOutageChangeRequest_OMSv1_AP RetrieveResourceOutageChangeRequest_OMSv1_AP RetrieveResourceOutageChangeRequest_OMSv1_DocAttach_AP RetrieveTransmissionOutage_OMSv1_AP RetrieveTransmissionOutageChangeRequest_OMSv1_AP RetrieveTransmissionOutageChangeRequest_OMSv1_AP RetrieveTransmissionOutageChangeRequest_OMSv1_AP RetrieveTransmissionOutageChangeRequest_OMSv1_DocAttach_AP SubmitResourceOutage_OMSv1_AP SubmitResourceOutageChangeRequest_OMSv1_AP SubmitResourceOutageChangeRequest_OMSv1_DocAttach_AP SubmitTransmissionOutage_OMSv1_AP SubmitTransmissionOutage_OMSv1_DocAttach_AP SubmitTransmissionOutageChangeRequest_OMSv1_AP SubmitTransmissionOutageChangeRequest_OMSv1_AP SubmitTransmissionOutageChangeRequest_OMSv1_DocAttach_AP	√ 4/15/20	4/23/20	N/A



System Interface Changes

SIBR					
Project	Change Type	API Service Name & Major Version, Artifacts	MAP Stage	Production	Technical Specifications
CCDEDE1	((I)FRET Modify	RetrieveCleanBidSet_SIBRv5_AP	√ 10/16/19	✓ Deploy 3/26/20	13.2
CCDERET		RetrieveCleanBidSet_SIBRv5_DocAttach_AP	10/10/19	Activation 10/1/20	15.2
CCDEDE1	Modify	RetrieveCurrentBidResults_SIBRv5_AP	√ 10/16/19	✓ Deploy 3/26/20	12.2
CCDEBE1	iviouity	RetrieveCurrentBidResults_SIBRv5_DocAttach_AP	10/10/19	Activation 10/1/20	13.2
CCDEBE1	Modify	SubmitRawBidSet_SIBRv5_AP	√ 10/16/19	✓ Deploy 3/26/20	13.2
CCDEBET	Modify	SubmitRawBidSet_SIBRv5_DocAttach_AP	10/16/19	Activation 10/1/20	15.2

BSAP								
Project	Change Type	API Service Name & Major Version, Artifacts	MAP Stage	Production	Technical Specifications			
FIN42010	Modify	RetrieveBalancingTestResults_BSAPv2_AP	1 0/16/19	✓ Deploy 3/26/20	172			
EIM2019	Modify	RetrieveBalancingTestResults_BSAPv2_DocAttach_AP		Activation Apr 2020	1.7.3			

CMRI						
Project	Change Type	UI	API Service Name & Major Version, Artifacts	MAP Stage	Production	Technical Specifications
LMPME CCDEBE1		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



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	5/29/20	7/27/20	10/1/20
DOTTC					

DRRS					
Project	Change Type	Summary	Technical Specifications	MAP Stage	Production
ESDER3B		RequestDRRegistrationData.xsd DRRegistrationData.xsd	5/6/20	7/27/20	Deploy 9/14/20
ESDER3B	New	Alternate API to only retrieve incremental data changes (Locations, Registrations)	5/6/20	7/27/20	Deploy 9/14/20
ESDER3B		Retrieval of the complete location approval process workflow details (LSE & UDC)	5/6/20	7/27/20	Deploy 9/14/20
ESDER3B		Retrieval of location records that are under the defense process	5/6/20	7/27/20	Deploy 9/14/20
ESDER3B		Retrieval of the location defense process workflow details (Incumbent & Prospective DRPs)	5/6/20	7/27/20	Deploy 9/14/20

MRI-S					
Project	Change Type	Summary	Technical Specifications	MAP Stage	Production
ЕВТМР		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
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Fall 2020 Release - System Interface Changes

Master File					
Project	Change Type	Summary	Technical Specifications	MAP Stage	Production
ESDER3B		Add enumeration to GRDT web service	5/29/20	7/27/20	10/1/20
FERC841 RA		New GRDT attribute	5/29/20	7/27/20	10/1/20
EIM2020		New GRDT attribute	5/29/20	7/27/20	10/1/20
Other		Remove MIN_LOAD from GRDT	5/29/20	7/27/20	10/1/20

CMRI	CMRI					
Project	Change Type	Summary	Technical Specifications	MAP Stage	Production	
EIM2020		TBD	5/29/20	7/27/20	10/1/20	

OASIS	OASIS					
Project	Change Type	Summary	Technical Specifications	MAP Stage	Production	
FRP Improvements Buffer & Min		TBD	5/29/20	7/27/20	10/1/20	
EBTMP		TBD	5/29/20	7/27/20	Activation 1/1/21	



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ADS Replacement Update – FMM Schedules

- As both ADS & CMRI will get the FMM Schedules from the same source, in real time both applications will show the same results.
- ADS will not display the subsequent corrections, if any though CMRI will process and report accordingly.
- For real time dispatch information, users can follow either ADS or CMRI. However, for shadow settlements or post real time analysis, users should continue to use CMRI as the source.



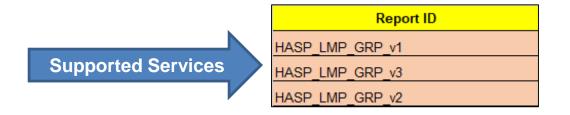
Version Management for OASIS & CMRI

- Background
 - ISO's standard policy is to support two versions of services as described in the
 Technical Specifications
 - Goal is to provide customers time to transition to latest version
 - The ISO currently supports multiple versions for OASIS and latest two versions for CMRI
 - Customers continue to use unsupported versions, that are not tested for future upgrades.
 - Resulting in increased support time/cost for stakeholders and ISO when troubleshooting unsupported versions



OASIS Supported Versions Example - HASP_LMP_GRP

The following table illustrates an example showcasing the versions supported by OASIS application vs documented Tech Specs







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 <u>5/29/2020</u>
 - Deprecated versions will be decommissioned on <u>9/1/2020</u>
 - Identifying patterns to embed information related to events resulting in failed market intervals within API and UI



OASIS – Version Management

- Path to latest Tech Specs on developer site:
 - Go to developer site
 - Click on OASIS under Apps
 - Navigate to Tech Specs
- Path to currently supported versions
 - Go to developer site & Click on OASIS
 - Navigate to Tech Specs section for these files
 - OASIS SingleZipServiceResults_SupportedVersions_April_09_2020.xls
 - OASIS GroupZipServiceResults_SupportedVersions_April_09_2020.xls



CMRI – Version Management

- CMRI currently supports two versions of services which is in compliance with CAISO guidelines
- Path to latest Tech Specs on developer site:
 - Go to developer site
 - Click on CMRI under Apps
 - Navigate to Tech Specs



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 5/5/2020.
- Following git repositories have been updated (api-specs, api-docs, api-sdk)
- Make the API query parameters naming consistent across all services.
- 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
- Evaluate having an option of schedulingCoordinator set to ALL, which is derived from the certificate identity rather than having to include all the SCID's in the query parameters



Ongoing Initiatives



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
- Implementation Plan:
 - Map Stage April 15, 2020
 - Production April 23, 2020



Next TUG: May 12, 2020

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