Technical User Group (TUG)

June 09, 2020

10:00 – 11:00 AM Pacific

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California ISO

TUG Agenda

Web Conference 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
TUG Agenda Posting Update	Indu Nambiar
System Interface Changes	Trang Vo
CAISO's B2B Integration Improvements	Ajay Mannepalli
MRI-S – Updated Tech Spec	Ibrahim Alatoum
CMRI & OASIS – Updated Tech Spec	Senthil Balasubramanian
Version Management for OASIS & CMRI	Swami Mahalingam / Neela Alla
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
- Rollout : June 23, 2020 (Tentative)

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

https://developer.caiso.com

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Fall 2020 Release - System Interface Changes

ADS					
Project	**Change Type**	**Summary**	**Technical Specifications**	**MAP Stage**	**Production**
ADS Replacement DOTTC	New	APIWebService v8 APIResponseWebService v8	✓ 5/21/20, v8.0.0	7/27/20	10/1/20

DRRS					
Project	**Change Type**	**Summary**	**Technical Specifications**	**MAP Stage**	**Production**
ESDER3B	Modify	SubmitDRLocations_DRRSv2_AP SubmitDRLocations_DRRSv2_DocAttach_AP SubmitDRRegistrations_DRRSv2_AP SubmitDRRegistrations_DRRSv2_DocAttach_AP RetrieveDRLocations_DRRSv2_AP RetrieveDRLocations_DRRSv2_DocAttach_AP RetrieveDRRegistrations_DRRSv2_AP RetrieveDRRegistrations_DRRSv2_DocAttach_AP	✓ 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	✓ 5/28/20, v2.5	7/27/20	Activation 1/1/21

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Fall 2020 Release - System Interface Changes

Master File						
Project	**Change**	**Change Type**	**Summary**	**Technical Specifications**	**MAP Stage**	**Production**
ESDER3B	Add enumeration to GRDT: DR_TYPE of PDR_LSR	Modify	RetrieveGeneratorRDT_MFRDv5 RetrieveGeneratorRDT_MFRDv5_DocAttach SubmitGeneratorRDT_MFRDv5 SubmitGeneratorRDT_MFRDv5_DocAttach	✓ 5/28/20, v6.0	7/27/20	10/1/20
FERC841 RA	New GRDT attribute: Apply Wholesale Charge					
EIM2020	New GRDT attribute: Meter Data Interval					
Other	Remove from GRDT: MIN_DISP_LEVEL					
CCE Tariff	New GRDT attribute: Run of River					
Slow DR	New GRDT attribute: Slow DR					

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Fall 2020 Release - System Interface Changes

CMRI					
Project	**Change Type**	**Summary**	**Technical Specifications**	**MAP Stage**	**Production**
N/A		Decommission of deprecated versions	✓ 5/29/20, v3.9.5	7/27/20	9/1/20
EIM2020	New	RetrieveEIMInfeasibility_CMRIv1_AP RetrieveEIMInfeasibility_CMRIv1_DocAttach_AP	✓ 5/29/20, v3.9.5	7/27/20	10/1/20
EIM2020	New	RetrieveLoadConfirming_CMRIv1_AP RetrieveLoadConfirming_CMRIv1_DocAttach_AP	✓ 5/29/20, v3.9.5	7/27/20	10/1/20
EIM2020	New	Available Balance Capacity	6/19/20	7/27/20	10/1/20

OASIS					
Project	**Change Type**	**Summary**	**Technical Specifications**	**MAP Stage**	**Production**
N/A		Decommission of deprecated versions	✓ 5/29/20, v5.1.13	7/27/20	9/1/20
EBTMP	New	*SLD*_EBTMP_PERF_DATA	✓ 5/29/20, v5.1.13 6/9/20 update	7/27/20	Activation 1/1/21

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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 notes for 6/2 webinar are posted on developer forum at https://developer.caiso.com/forum/topics.aspx?ForumID=4. Next webinar will be on 6/16/2020.
  - Implementation of SchedulePrices service using server stub from OpenAPI spec is underway
  - API pagination was discussed and rate limiting initial implementation was demonstrated
  - API versioning was discussed and will remain the same as we currently have for SOAP services
  - Focus items for team before next meeting
    - Server side implementation and data generation with pagination support for SchedulePrices API
    - Rate limiting updates to use client certificate
    - OpenAPI specification for DRLocations_v1 and SubmitMeterData_v1
    - Write up regarding the pagination design

MRI-S – 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 2.5 can be found at:

  Clean –

  https://developer.caiso.com/Artifacts/MRI-S/TechSpecs/MRI-S%20Interface%20Specification%20v2.5.pdf

  Redline –

  https://developer.caiso.com/Artifacts/MRI-S/TechSpecs/MRI-S%20Interface%20Specification%20v2.5%20REDLINE.pdf

- No service changes with the Fall 2020 release

MRI-S – Overview of Changes

- New measurement type
  - EBTMP (*effective upon EBTMP project activation*)
  - EBTMP = Channel 8
  - EBTMP measurementQuality must be ACTUAL

- New submission timelines
  - RetrieveMeterDataResponse for HISTORY will return meter data that was used in each of the various settlements runs: CURRENT, PREVIOUS, T+9B, T+70B, T+11M, T+21M, T+24M
  - *Effective upon MSTT project activation*

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CMRI – Updated Technical Specification

- Most recent changes are at the top of Revision History
- Consolidation list of supported artifacts
- New Tech Spec should be used along with XSD for Element description
- Updated Tech Spec Version 3.9.5 can be found at:

  Clean –

  https://developer.caiso.com/Artifacts/CMRI/TechSpecs/CMRI%20Interface%20Specification%20v3.9.5.pdf

  Redline –

  https://developer.caiso.com/Artifacts/CMRI/TechSpecs/CMRI%20Interface%20Specification%20v3.9.5%20REDLINE.pdf

OASIS – Updated Technical Specification

- Most recent changes are at the top of Revision History

- Consolidation list of supported artifacts

- Service examples have been removed from Tech Spec and uploaded to CAISO Developer site.

- Updated Tech Spec Version 5.1.13 can be found at:

  Clean –

  https://developer.caiso.com/Artifacts/OASIS/TechSpecs/OASIS%20Interface%20Specification%20v5.1.13.pdf

  Redline –

  https://developer.caiso.com/Artifacts/OASIS/TechSpecs/OASIS%20Interface%20Specification%20v5.1.13%20REDLINE.pdf

  Example –

  https://developer.caiso.com/Artifacts/OASIS/TechSpecs/OASIS%20API%20URL%205.1.13%20Examples.pdf

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Version Management for OASIS & CMRI

- Enforce the policy to support only two versions of services

- Technical Specification will indicate supported versions

- Revised Technical Specification will be available on **5/29/2020** - **Completed**

- OASIS will support only the versions listed in "OASIS API URL 5.1.13 Examples.pdf" posted on Developer site. Other versions will be decommissioned effective 2020 Fall Release Activation

- CMRI supports only two versions of services

DRRS Fall 2020 Release – LocationIDs via APIs

Currently in production, DRRS assigns a (>=) 14digit numeric identifier for Location records submitted via the API

Example: 22893776000001, 22893776000002…

With the fall release 2020, it will be reduce down (>=) 8 digits

Example: 22893776, 22893777….

Any questions/concerns, please submit a CIDI ticket.

Next TUG: June 23, 2020

Contact for Questions & Agenda Requests: Indu Nambiar, inambiar@caiso.com

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