



Market Simulation Call - Independent 2020 Releases

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Recordings

Calls and webinars are recorded for stakeholder convenience, allowing those who are unable to attend to listen to the recordings after the meetings. The recordings will be publicly available on the ISO web page for a limited time following the meetings. The recordings, and any related transcriptions, should not be reprinted without the ISO's permission.

Agenda

- MAP Stage Availability
- Market Simulation Initiatives
- ADS
- CIRA UI Framework Upgrade
- CIRA Enhancements
- Next Steps

MAP Stage Availability

- Refer to MAP Stage portal <https://portalmap.caiso.com> for system availability information
- Current MAP Stage Maintenance
 - None
- Upcoming MAP Stage Maintenance
 - 2/2-2/5: CIRA UI framework upgrade, new URL
- MAP Stage Weekly Maintenance Window
 - Friday

Market Simulation Initiatives

CCDEBE Phase 1

- California ISO is postponing deployment of Phase 1 of its commitment cost and default energy bid enhancements (CCDEBE) scheduled for Jan. 28, 2021, to conduct additional validation and testing.
- ISO plans to complete this work and implement phase 1 of CCDEBE on or before Feb. 24, 2021. Currently, the ISO is completing its testing of recent fixes to defects identified in the ISO's scheduling interface business rules and will then complete additional integration testing for data payloads. After validation of these test results, the ISO will perform a full end-to-end test of phase 1 functionality to mitigate any risk of unexpected results in production.
- The ISO will issue a subsequent notice to confirm the actual implementation date at least two days in advance of that date.
- <http://www.caiso.com/Documents/CommitmentCost-DefaultEnergyBidEnhancementsPhase1DeploymentPostponed.html>

Known Issues

#	System	Summary	Status	Estimated Fix Date
1	ADS	RT DOT breakdown is no longer showing (CIDI 231483)	This feature was disabled intentionally due to security concerns	No Fix date Yet

ADS Features

➤ **Market Notice for Operating Instruction functionality**

- **2/1 Notice:** The activation of the functionality will be moved from 2/1 to 2/4 due to network model deployment activities on 2/1. The functionality code initially went live on 1/21 but was not used.
- **2/4 Notice:** The operators will start using this functionality today around 14:30 .

➤ **Activation of New Features**

- Only available on New ADS UI, API v8
 - ✓ DOTT - 1/21/21
 - AS Test - TBD
 - RTCD Commitment – TBD

ADS Decommission URLs; Certificate Trust Store, SSL

- Schedule to be announced at a later date
 - Decommission of legacy URLs
 - New URLs available since 10/20/20
 - <https://adsws.prod.caiso.com:443> – API interaction
 - <https://ads.prod.caiso.com:443> – Web User interface
 - <https://adsws.prod.ecn.wepex.net:443> – ECN API interaction
 - <https://ads.prod.ecn.wepex.net:443> (available as of 1/21/21) – ECN Web User interface
 - Legacy URLs will no longer be available
 - <https://adssta.caiso.com:447>
 - <https://ads.caiso.com:447>
 - <https://adssta.ecn.wepex.net:447>
 - <https://ads.ecn.wepex.net:447>
 - <https://adsws.prod.caiso.com:447>
 - <https://adsws.prod.ecn.wepex.net:447>

Dev Site: Active URLs & IPs Going Forward	
Web Services Environments	UI Environments
Production https://adsws.prod.caiso.com IP addresses to whitelist: 45.42.16.51 45.42.22.51 45.42.16.16 45.42.22.16	Production https://ads.prod.caiso.com IP addresses to whitelist: 45.42.16.16 45.42.22.16
Production ECN https://adsws.prod.ecn.wepex.net IP addresses to whitelist: 10.112.5.51 10.114.5.51	Production ECN https://ads.prod.ecn.wepex.net IP addresses to whitelist: 10.112.5.16 10.114.5.16
MAP Stage https://adsws.map.caiso.com IP addresses to whitelist: 45.42.17.165 45.42.23.165	MAP Stage https://ads.map.caiso.com IP addresses to whitelist: 45.42.17.130 45.42.23.130

ADS Decommission URLs; Certificate Trust Store, SSL

- Schedule to be announced at a later date
 - Certificate Trust Store Configuration for <https://adsws.prod.caiso.com> going from :447 to :443
 - What needs to occur on the client side is either of these:
 - a) Participant adds “Digicert CA” as the root certificate provider in their certificate store.
 - b) Replace their custom defined certificate store, back to the default libraries in the code distribution (Java being the default cacerts files).
 - Item a) is the only thing necessary, but depending on your implementation, it should be handled by the default trust stores. For example, if you are using an up to date version of Java, the default cacerts file contains the Digicert Certificate Authority files already. There is no need to change any client certificates, as they will continue to be signed by the CAISO_ISSUING_CA.
 - Here are links to the specific CA certs needed:
 - Root CA: DigiCert High Assurance EV Root CA
<https://cacerts.digicert.com/DigiCertHighAssuranceEVRootCA.crt.pem>
 - Intermediate CA: DigiCert SHA2 Extended Validation Server CA
<https://cacerts.digicert.com/DigiCertSHA2ExtendedValidationServerCA.crt.pem>

ADS Decommission URLs; Certificate Trust Store, SSL

- Schedule to be announced at a later date
 - SSL Ciphers
 - New SSL cipher settings will be enforced for ADS
 - No change in TLS version - TLS will remain 1.2
 - We encourage customers to transition to the new SSL cipher settings as early as possible to avoid impacts when the new settings become enforced for ADS
 - Here is the list of the ciphers being accepted today, in comparison to the reduced list that will be enforced with the cutover:

Currently Supported TLS 1.2 ciphers	Future Supported TLS 1.2 ciphers to be enforced
TLS_DHE_RSA_WITH_AES_128_CBC_SHA TLS_DHE_RSA_WITH_AES_128_CBC_SHA256 TLS_DHE_RSA_WITH_AES_128_GCM_SHA256 TLS_DHE_RSA_WITH_AES_256_CBC_SHA TLS_DHE_RSA_WITH_AES_256_CBC_SHA256 TLS_DHE_RSA_WITH_AES_256_GCM_SHA384 TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256 TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 TLS_RSA_WITH_AES_128_CBC_SHA TLS_RSA_WITH_AES_128_CBC_SHA256 TLS_RSA_WITH_AES_128_GCM_SHA256 TLS_RSA_WITH_AES_256_CBC_SHA TLS_RSA_WITH_AES_256_CBC_SHA256 TLS_RSA_WITH_AES_256_GCM_SHA384	These will be the only ciphers allowed: TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256 TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384

CIRA UI framework upgrade

- The ISO will upgrade the UI framework for CIRA in MAP-Stage on February 2-5, 2021 and Production targeted in the month of February 2021
- The UIs will remain relatively unchangedNo corresponding API change
- Note: While the UIs can be accessed using the Chrome browser, the supported browser is Internet Explorer; issues found in Chrome that are not reproducible on Internet Explorer are not valid defects
- **The CIRA UI upgrade will coincide with cutover to new URLs for this UI**
 - **Please open the full 45.42.16.0/21 network of our new IP space**
 - Changing from (existing)
 - <https://portalmap.caiso.com/cira>
 - Changing to (new)
 - <https://cira.map.caiso.com/>
 - Best practice is to access applications from your respective portal (MPP, RC, EIM) to ensure you're always using the correct URL
 - Contact the ISO Service Desk if you experience issues accessing the application

CIRA UI framework upgrade screenshot

Welcome to Customer Interface for Resource Adequacy
Please use the menu bar above to navigate the application.

2021 - CIRA Enhancements

	CIRA Enhancements	MAP-Stage	Production
1	LSE IDs from Master File	Feb 16, 2021	Mar 3, 2021
2	CIRA Flex RA-Upload Screen & Flex Capacity Survey layer changes		
3	CIRA Acquired Resource (Phase 1)		
4	CIRA – Add SC Contact Info		
5	Publish NQC data to OASIS - this report will move from public website to a new report in OASIS (upcoming OASIS tech spec)		
6	Publish CPM to OASIS - this report will move from public website to a new report in OASIS (upcoming OASIS tech spec)		

- OASIS tech spec published **January 14** with TUG review **January 19**
- Training re: provisioning changes for the new CIRA LSE IDs were discussed during the AIM Enhancements training for UAAs **January 21**
- Customer training for these enhancements is scheduled for **February 25, tentative, will confirm via market notice**
- The enhancements will be available in MAP-Stage prior to Production
- For item 1, CIRA will cease to use the LSEID list in CIRA and will use the list in Masterfile and **this will require provisioning changes to prevent loss of access to CIRA**
 - ISO will contact impacted organization’s UAAs to reprovision to the new IDs to retain access to CIRA
 - ISO will validate that the organizations have been reprovisioned prior to go-live to prevent loss of access to CIRA
 - Please work with your UAA to Provision your LSEID for following roles:
 - EXTERNAL RA READ-ONLY
 - EXTERNAL RA READ-WRITE
 - The re-provisioning of the LSEID access to these roles are needed to retain access to see the data in several CIRA reports such as
 - RA Plan Upload/download
 - Generic Obligation Report
 - Flex Obligation Report

Next Steps

Please join Release Users Group (RUG) calls for further updates about upcoming Market Simulation schedule.

Reference Slides

Independent 2020 Releases Structured Scenario Registration Details

MP's will need to register their request with the ISO to participate in this simulation via the MarketSim@caiso.com mailbox.

Date of registration October 9, 2020.

We will do our best to accommodate for late registration

Independent 2020 Releases Communication Plan

- **Schedule**

<i>Monday</i>	<i>Thursday</i>
Sep 28, Oct 5,12,19, 26 Nov 2, 9, 16, 23, 30 Dec 7,14, 21 Jan 11	Oct 1,8,15, 22, 29 Nov 5, 12, 19 Dec 3,10,17,24 Jan 7, 14

- **Connection Information**

- **Web Conference Information**

- Web Address: <https://caiso.webex.com/meet/MarketSim>
 - Meeting Number: 962 067 710
 - Audio connection instructions will be available after connecting to the web conference. When prompted, select "Call me" and enter the phone number you will use during the call. You will be called by the conference shortly.

- **Conference Call Information**

- Dial-in Number:
 - 1-844-517-1271 (Toll Free)
 - 1-682-268-6591
 - Access Code: 962 067 710

Market Simulation Issue Management

- Submit all issues to the CIDI case management system
- CIDI tickets must have “**Functional Environment**” = “**Market Simulation Independent 2020**” to be reviewed by ISO SMEs

Independent 2020 Releases Market Simulation Initiatives & Timelines

Independent 2020 Release Initiatives	Start Date	End Date	Structured Simulation Start (Trade Date)
Independent 2020 Release Market Simulation			
Intertie Deviation Settlement	12/1/20	1/22/21	1 st attempt- 12/1 and 12/2 2 nd attempt-1/14 and 1/19- Complete
Symmetrical Wheeling	11/17/20	1/22/21	

Market Simulation Settlements Calendar:

<http://www.caiso.com/Documents/MarketSimulationSettlementsCalendar-IndependentWinter2020Release.pdf>

ISO Market Simulation Support

- **Hours:** Monday thru Friday 0900-1800 PDT
- **ISO's 24x7 Service Desk:** (916) 351-2309 (Connectivity – UI or API)
 - Issues called in after hours will be worked on during the next business day
- **Email:** MarketSim@caiso.com

Market Simulation Initiatives

- Intertie Deviation Settlement

- **Timeline:** December 1 - January 22
- **Structured** : 1st attempt: December 1 and December 2
2nd attempt : 1/14 and 1/19

Please use <https://demo.caiso.tag.oati.com/> to submit tags in MapStage environment

- Structured Scenarios document -
<http://www.caiso.com/Documents/MarketSimulationScenariosIntertieDeviationSettlement.pdf>

- Symmetrical Wheeling

- **Timeline:** November 17 – January 22
- Business Requirements Specification -
http://www.caiso.com/Documents/BusinessRequirementsSpecification_SymmetricalSettlementForWheelingThroughEimBAAs.pdf
- Unstructured Scenarios document -
<http://www.caiso.com/Documents/MarketSimulationScenariosSymmetricalSettlementForWheelingThroughEimBAAs.pdf>