

Market Simulation – Summer 2021 Release

Anshuman Vaidya

Market Simulation Coordinator

July 15, 2021

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

- Summer 2021 Release MAP Stage Availability
- Summer 2021 Release Market Simulation Initiatives & Timelines
- Initiatives
 - Summer 2021 readiness
- Summer 2021 System Interface Changes
- Next Steps



Summer 2021 Release MAP Stage Availability

- Refer to MAP Stage portal https://portalmap.caiso.com for system availability information
- Current MAP Stage Scheduled Maintenance
 - None
- MAP Stage Weekly Maintenance Window
 - Friday



Summer 2021 Release Market Simulation Initiatives & Timelines

Summer 2021 Release Initiatives	Start Date	Start Date (Trade Date)	End Date	Structured Simulation Start (Trade Date)	Go Live Date
Summer 2021 Release Market Simulation	04/26/21	04/26/21	07/15/21	05/10/21	
Resource adequacy enhancements track 1 • OMS Prevention of Extension; Overlapping Outages; Prevention of Curtailment Increase; Ambient Outages		• OMS Changes - 7/1		• OMS Changes - 7/1	OMS Changes July 15
Summer 2021 readiness Export, wheeling, and load scheduling priorities		6/30		7/22	By July 29

Market Simulation Plan:

http://www.caiso.com/Documents/MarketSimulationPlan-Summer2021Release.pdf



Scenario Description

• <u>Summer Readiness</u> – Export, wheeling, and load scheduling priorities

Scenario #8 (a & b) "Post-HASP adjustment pro rata allocate import and internal transmission to high priority wheels"

Scenario #9 "Outage Pro-rata impact on RA and non-RA capacity on a supporting resource"

*This scenario will be tested as unstructured



Market Simulation Initiatives

- Timeline : April 26 July 9
- Summer 2021 readiness
 - Structured :
 - Export, wheeling, and load scheduling priorities:
 - July 13th (PT Export)
 - July 22nd (HASP post process)
 - Business Requirements Specification -http://www.caiso.com/Documents/BusinessRequirementsSpecificationSummer2021Readiness.pdf
 - Structured Scenarios document http://www.caiso.com/Documents/MarketSimulationStructuredScenariosSummerReadiness2021.pdf



OMS Summer Release Timeline

Project	Functionality	MAP Stage	Production
RAE Track 1	Denials of CAISO Outages based on Planned Substitutions	05/17/21 ✓	06/03/21✓
RAE Track 1	Preventing Extension of Planned CAISO Outage	07/01/21 🗸	07/15/21 🗸
RAE Track 1	Preventing Curtailment Increase of Planned CAISO Outage	07/01/21 🗸	07/15/21 🗸
RAE Track 1	Allowing Overlapping Outages for 3 Ambient NOW & RIMS Testing	07/01/21 🗸	07/15/21 🗸
RAE Track 1	Creation of 'Ambient Due to Temp' & 'Ambient Not Due To Temp' outages in a forced timeframe only	07/01/21 🗸	07/15/21 🗸
RAE Track 1	Cancel pending requests prior to automatically denying outages	07/01/21 🗸	07/15/21 🗸
OSI 2021 Enh	Overlapping Pmax NGR	07/01/21 🗸	07/15/21 🗸
OSI 2021 Enh	Resource-Participant Association fix	07/01/21 🗸	07/15/21 🗸
OSI 2021 Enh	Curtailed and Non-Operational Gen. Rpt. Changes	NA	06/23/21✓

Summer 2021 - System Interface Changes

Summer 2021 Release							
Project	System	API Service Name & Major Version, Artifacts	MAP Stage	Production	Technical Specifications/Publicati on		
	MF	GeneratorRDT_v5 GRDT spreadsheet Version 15.0	√ 5/12/21	✓ 6/10/21	✓ v7.0; 4/16/21 ✓ 6/11/21		
	MF	IntertieRDT_v1 IRDT (spreadsheet) Version 6.0	√ 5/12/21	√ 6/10/21	✓ v7.0; 4/16/21 ✓ 6/11/21		
Summer	MF	GRDT & IRDT Definitions v15	N/A	N/A	✓ 6/11/21		
Readiness	SIBR	CleanBidSet_v5; 20210401	√ 7/9/21	By 7/22/21	✓ v13.3; 4/19/21		
1	SIBR	RawBidSet_v5; 20210401	√ 7/9/21	By 7/22/21	✓ v13.3; 4/19/21		
1	SIBR	BidResults_v5; 20210401	√ 7/9/21	By 7/22/21	✓ v13.3; 4/19/21		
	UASIS	ENE_SCH_BY_TIE Energy > Schedule by Tie	✓	✓ Deploy 6/30/21 Activation July 2021	✓ v6.0.0; 4/9/21		
	CMRI	RetrieveStorageOperatingLimit_CMRIv1_AP RetrieveStorageOperatingLimit_CMRIv1_DocAttach_AP UI > Real-Time > Effective SOC Limits	✓	√ 6/30/21	✓ v4.1.0; 4/16/21		
	OVEIC	ENE_UND_SPLY_INF_EC Energy > Under Supply Infeasibility and Enforced Constraints	✓	√ 6/30/21	✓ v6.1.0; 4/16/21		
RA -		Application Changes	√ 5/5/21	√ 6/3/21	N/A		
Enhancements -	OMS	Application Changes (Denials in webOMS based on planned substitutions)	✓ API 5/17/21 ✓ UI 5/19/21	√ 6/3/21	N/A		
	OMS	Application Changes (Preventing extension; overlapping outages; preventing curtailment increase; creation of ambient outages, cancel pending requests prior to automatically denying outages)	√ 7/1/21	√ 7/15/21	N/A		
	OVSIZ	PRC_HRLY_ENE_SHAPING_FCTR Pricing > Hourly Energy (Price) Shaping Factor	√ 5/21/21	√ 6/13/21	✓ v6.0.0; 4/9/21		
	OASIS	ATL_CNSTR_RLXN_THRESHOLD Atlas Reference > Constraint Relaxation Threshold	√ 5/21/21	√ 6/13/21	✓ v6.0.0; 4/9/21		
FERC831		DA/RT Ceiling (Enhancement) Currently available in UI > "Energy bid ceiling" API for Retrieve DA/RT Ceiling (Enhancement) • RetrieveEnergyBidData_SIBRv1 • RetrieveEnergyBidData_SIBRv1_DocAttach	✓ UI API - TBD	✓ UI 6/13/21 API - TBD (after activation)	July 2021		
DR LPA		DR Meter Monitoring Data Submission for BASE, CBL, including % Residential	√ 7/12	√ 7/14	√ 6/7/21		
OSI 2021 Enh.		Overlapping Pmax NGR; Resource-Participant Association fix	√ 7/1/21	√ 7/15/21	N/A		
OSI 2021 Enh.	CAISO.com	New 'Curtailed & Non-Operational Generator' report for prior trade date Add data for 3 additional BAs to existing 'Curtailed & Non-Operational Generator' report	N/A	√ 6/23/21	N/A		
	California	COPYRIGHT © 2016 by California ISO. All R	₹ights Reserved.				

Next Steps

• The next teleconference is scheduled on July 19 at 2 PM



Reference Slides



ISO Market Simulation Support

- Hours: Monday thru Friday 0900-1800 PDT
- ISO's 24x7 Service Desk: (916) 351-2309 (Connectivity UI or API)
- Email: <u>MarketSim@caiso.com</u>



Spring 2021 Release Communication Plan

Schedule

Monday	Thursday		
April 26	April 22, 29		
May 3,10,17,24	May 6,13,20,27		

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 Summer 2021" to be reviewed by
 ISO SMEs



Known Issues:

tem	Summary	Status	
1	RAE OASIS: RUC Under Supply Infeasibility and Enforced Constraints Report – Deactivation Timestamp – 74242	Closed	
	1	Resolved, No code change needed.	



Summer 2021 Release MAP Stage Connectivity Testing

Timeline : April 26 – May 10



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

FERC 831 & Summer 2021 readiness – May 6th, 2021

We will do our best to accommodate for late registration



Summer 2021 Release - Market Simulation Overview

Wk	Date	ISO	Market Participants
1	4/26-5/10	Mkt Sim Readiness Testing	Connectivity
2	5/10-5/28		Structured Scenarios
3	5/10-5/28		Unstructured Simulation

Calendar Day	Day	CMRI T+1B	Submit Meter Data by <u>T+2B</u> 10:00 AM for Initial	Publish Initial Statement <u>T+5B</u>	Submit Meter Data by <u>T+5B</u> 18:00 for Recalc	Publish Recalc Statement <u>T+8B</u>	Publish Market Invoice
24-May-21	Monday		20-May				
25-May-21	Tuesday			18-May	18-May	13-May	
26-May-21	Wednesday	25-May				Monthly Recalc 11-May -13- May	Daily Recalc 11-May; 13-May Monthly Recalc 11-May - 13-May
27-May-21	Thursday	26-May	25-May	20-May	20-May		
28-May-21	Friday	27-May	26-May	Monthly Initial 18-May -20- May		18-May	Daily Initial 18-May; 20-May Monthly Initial 18-May - 20-May

Settlements TDs Tue/Thu
Maintenance Friday
Market Simulation Plan
Market Simulation Settlements Calendar



Market Simulation Initiatives

- Timeline : April 26 June 07
- FERC order 831
 - Structured: <u>Trading Date May 25, 26, 27</u> (Buffer dates June 3, 4)
 - Structured Scenarios document -http://www.caiso.com/Documents/MarketSimulationStructuredScenarios-FERCorder831.pdf
 - Business Requirements Specification -http://www.caiso.com/Documents/BusinessRequirementsSpecificationFERC831ImportBiddingMarketParameters.pdf
- FERC Order 831 Market Simulation Scenarios <u>Customer Training</u> on 5/18. Refer to the <u>ISO Learning Center</u> for the presentation and video.



Market Simulation Initiatives

- Timeline : April 26 July 6
- Resource adequacy enhancements track 1
 - Structured : OMS changes : 7/1
 - Business Requirements Specification http://www.caiso.com/Documents/Business-Requirements-Specification-Resource-Adequacy-Enhancements-Track-1-Clean.pdf
 - Structured Scenarios document http://www.caiso.com/Documents/MarketSimulationResourceAdequacyEnhancementTrack1.pdf

