



# Market Simulation – Summer 2021 Release

Anshuman Vaidya  
Market Simulation Coordinator

July 19, 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

<u>Summer 2021 Release Initiatives</u>	<u>Start Date</u>	<u>Start Date (Trade Date)</u>	<u>End Date</u>	<u>Structured Simulation Start (Trade Date)</u>	<u>Go Live Date</u>
<u>Summer 2021 Release Market Simulation</u>	04/26/21	04/26/21	07/31/21	05/10/21	
Summer 2021 readiness Export, wheeling, and load scheduling priorities				<b>7/27</b>	By July 31

Market Simulation Plan:

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

# Market Simulation Initiatives

- **Timeline : April 26 – July 31**
- **Summer 2021 readiness**
  - **Structured :**
    - Export, wheeling, and load scheduling priorities:
      - July 13<sup>th</sup> (PT Export)
      - July 27<sup>th</sup> (HASP post process)

## Scenario Description:

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

- Business Requirements Specification -  
<http://www.caiso.com/Documents/BusinessRequirementsSpecificationSummer2021Readiness.pdf>
- Structured Scenarios document -  
<http://www.caiso.com/Documents/MarketSimulationStructuredScenariosSummerReadiness2021.pdf>

# Summer 2021 - System Interface Changes

Summer 2021 Release

Project	System	API Service Name & Major Version, Artifacts	MAP Stage	Production	Technical Specifications/Publication
Summer Readiness	MF	GeneratorRDT_v5 <a href="#">GRDT spreadsheet Version 15.0</a>	✓ 5/12/21	✓ 6/10/21	✓ v7.0; 4/16/21 ✓ 6/11/21
	MF	IntertieRDT_v1 <a href="#">IRDT (spreadsheet) Version 6.0</a>	✓ 5/12/21	✓ 6/10/21	✓ v7.0; 4/16/21 ✓ 6/11/21
	MF	<a href="#">GRDT &amp; IRDT Definitions v15</a>	N/A	N/A	✓ 6/11/21
	SIBR	CleanBidSet_v5; 20210401	✓ 7/9/21	By 7/29/21	✓ v13.3; 4/19/21
	SIBR	RawBidSet_v5; 20210401	✓ 7/9/21	By 7/29/21	✓ v13.3; 4/19/21
	SIBR	BidResults_v5; 20210401	✓ 7/9/21	By 7/29/21	✓ v13.3; 4/19/21
	OASIS	ENE_SCH_BY_TIE Energy > Schedule by Tie	✓	✓ Deploy 6/30/21 Activation July 2021	✓ v6.0.0; 4/9/21
RA Enhancements	CMRI	RetrieveStorageOperatingLimit_CMRIv1_AP RetrieveStorageOperatingLimit_CMRIv1_DocAttach_AP UI > Real-Time > Effective SOC Limits	✓	✓ 6/30/21	✓ v4.1.0; 4/16/21
	OASIS	ENE_UND_SPLY_INF_EC Energy > Under Supply Infeasibility and Enforced Constraints	✓	✓ 6/30/21	✓ v6.1.0; 4/16/21
	CIRA	Application Changes	✓ 5/5/21	✓ 6/3/21	N/A
	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
FERC831	OASIS	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
	SIBR	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	MRI-S	DR Meter Monitoring Data Submission for BASE, CBL, including % Residential	✓ 7/12	✓ 7/14	✓ 6/7/21
OSI 2021 Enh.	OMS	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

# Next Steps

- The next teleconference is scheduled on July 22 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:** [MarketSim@caiso.com](mailto:MarketSim@caiso.com)

# Spring 2021 Release Communication Plan

- **Schedule**

<i><b>Monday</b></i>	<i><b>Thursday</b></i>
April 26 May 3,10,17,24	April 22, 29 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:

Item	Summary	Status
1	RAE OASIS: RUC Under Supply Infeasibility and Enforced Constraints Report – Deactivation Timestamp – 74242	Closed
2	RAE CMRI: Effective SOC Limits - API Request does not have Resource - 74810	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](mailto:MarketSim@caiso.com) mailbox.

Date of registration

FERC 831 & Summer 2021 readiness – May 6<sup>th</sup>, 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 T+2B 10:00 AM for Initial	Publish Initial Statement T+5B	Submit Meter Data by T+5B 18:00 for Recalc	Publish Recalc Statement T+8B	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 : Trading Date May 25, 26, 27 ( 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 [Customer Training](#) on 5/18. Refer to the [ISO Learning Center](#) 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>

# 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 ✓