



# Market Simulation – Fall 2021 Release

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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

- Fall 2021 Release MAP Stage Availability
- Fall 2021 Release Market Simulation Initiatives & Timelines
- Initiatives
  - Energy storage and distributed energy resources phase 4 –implementation
  - Short-long start definitions
- Known Issues
- Next Steps

# Fall 2021 Release MAP Stage Availability

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

# Fall 2021 Release Market Simulation Initiatives & Timelines

<b><u>Fall 2021 Release Initiatives</u></b>	<b><u>Start Date</u></b>	<b><u>Start Date (Trade Date)</u></b>	<b><u>End Date</u></b>	<b><u>Structured Simulation Start (Trade Date)</u></b>
<b><u>Fall 2021 Release Market Simulation</u></b>	08/30/21	09/07/21		09/07/21
Energy storage and distributed energy resources phase 4 –implementation		09/21	10/22	09/23, 09/28, 09/30 10/19, 10/20*
Short-long start definitions		10/26		NA

Market Simulation Plan:

<http://www.caiso.com/Documents/MarketSimulationPlan-Fall2021Release.pdf>

# Market Simulation Initiatives

- **Energy storage and distributed energy resources phase 4 –implementation**
  - **Timeline : September 21 – October 22**
  - **Structured** : September 23,28,30 and October 19, 20\*  
( Added 10/6 , 10/13 ,10/19 and 10/20 as additional dates if required for testing)
  - Business Requirements Specification -  
<http://www.caiso.com/Documents/BusinessRequirementsSpecification-EnergyStorageandDistributedEnergyResourcesPhase4.pdf>
  - Structured Scenarios document –  
<http://www.caiso.com/Documents/MarketSimulationStructuredScenarios-EnergyStorageandDistributedEnergyResourcesPhase4.pdf>
  
- **Short-long start definitions (Start Oct 26)**
  - Business Requirements Specification -  
<http://www.caiso.com/Documents/BusinessRequirementsSpecificationv11-Short-LongStartDefinitions.pdf>

# Known Issues

S. No.	Design Gap	Fix Date
1	Min EOH SOC for all hours are getting discarded if a RUC generated MSOC is present for any hour	<b>Fixed</b>

# Master File



# Fall 2021 Release Implementation Plan

- Published on [Release Planning](#)

Date	Deployment Information	Status
10/20/2021	Master File	On-Track
10/25/2021	CMRI	On-Track
10/25/2021	OASIS	On-Track
10/27/2021	Settlements	On-Track
10/28/2021	Market	On-Track
10/28/2021	SIBR	On-Track
TD 11/01/2021	Activation of ESDER4	On-Track
TD 11/01/2021	Activation of EIM BSSD P1	On-Track
TD 11/01/2021	Activation of RTSR	On-Track
TD 11/01/2021	Activation of ISPR	On-Track
TD 11/17/2021	Activation of HRP2A	On-Track
TD 01/01/2022	Activation of VOMCR	On-Track
TD 02/01/2022	Activation of SLSD	On-Track

# Next Steps

- The next teleconference is scheduled on Oct 21 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)

# Fall 2021 Release Communication Plan

- **Schedule**

<b><i>Monday</i></b> August 30 September 13,20,27	<b><i>Tuesday</i></b> September 7	<b><i>Thursday</i></b> August 26 September 2,9,16,23,30
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- **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

# Fall 2021 Release MAP Stage Connectivity Testing

- **Timeline** : Aug 30 – Sept 06

# Fall 2021 Release - Market Simulation Overview

Wk	Date	ISO	Market Participants
1	8/30-9/06	Mkt Sim Readiness Testing	Connectivity
2	9/07-10/01		Structured Scenarios
3	9/08-10/01		Unstructured Simulation

Calendar Day	Day	CMRI T+1B	Submit Meter Data by T+2B 10:00 for Initial T+9B	Publish Initial Statement T+8B T+9B	Submit Meter Data by T+8B 18:00 for Recalc T+70B	Publish Recalc Statement T+8B T+70B	Publish Market Invoice
30-Aug-21	Monday						
31-Aug-21	Tuesday						
01-Sep-21	Wednesday	31-Aug					
02-Sep-21	Thursday		31-Aug				
03-Sep-21	Friday	2-Sep					
04-Sep-21	Saturday						
05-Sep-21	Sunday						
06-Sep-21	Monday				CAISO Holiday		
07-Sep-21	Tuesday		2-Sep				
08-Sep-21	Wednesday	7-Sep		31-Aug	31-Aug		
09-Sep-21	Thursday			Monthly Initial 31-Aug			Daily Initial 31-Aug Monthly Initial 31-Aug
10-Sep-21	Friday	9-Sep	7-Sep	2-Sep	2-Sep		

Settlements TDs Tue/Thu

Maintenance Friday

[Market Simulation Plan](#)

[Market Simulation Settlements Calendar](#)



# Market Simulation Issue Management

- Submit all issues to the CIDI case management system
- CIDI tickets must have “**Functional Environment**” = “**Market Simulation Fall 2021**” to be reviewed by ISO SMEs



# Market Simulation 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 : August 24<sup>th</sup>, 2021.

We will do our best to accommodate for late registration

# Fall 2021 - System Interface Changes

Fall 2021 Release				
Project	System	API Service Name & Major Version, Artifacts	Technical Specifications	MAP-Stage
ESDER4	MF	RetrieveGeneratorRDT_MFRDv5_AP; 20211001 RetrieveGeneratorRDT_MFRDv5_DocAttach_AP; 20211001 SubmitGeneratorRDT_MFRDv5_AP; 20211001 SubmitGeneratorRDT_MFRDv5_DocAttach_AP; 20211001  Added the following Resource attributes to GRDT: STORAGE_VARIABLE_COST MAX_DAILY_RUN_TIME STORAGE_RANK_LMPM	✓ 5/27/21	✓ 8/30/21
	SIBR	SubmitRawBidSet_v5	✓ 8/3/21	✓ 9/1/21
	SIBR	RetrieveCleanBidSet_v5	✓ 8/3/21	✓ 9/1/21
	SIBR	RetrieveCurrentBidResults_v5	✓ 8/3/21	✓ 9/1/21
	CMRI	Update to Default Energy Bid Curves with new Default Bid Type "Storage"	✓ v5.0.0; 6/4/21	✓ 9/21/21
	OASIS	Added new service version for Public bids to introduce new elements.	✓ v7.0.0; 6/4/21	✓ 9/21/21
Hybrid Resources P2	MF	RetrieveGeneratorRDT_MFRDv5_AP; 20211001 RetrieveGeneratorRDT_MFRDv5_DocAttach_AP; 20211001 SubmitGeneratorRDT_MFRDv5_AP; 20211001 SubmitGeneratorRDT_MFRDv5_DocAttach_AP; 20211001  Added the following Resource attributes to GRDT: COMPONENT_ID CO_LOCATED FUEL_TYPE (Added "HYBD" enum)  Added Hybrid Components section in the elements table for GRDT	✓ 5/27/21	✓ 8/30/21
Intertie Shadow Pricing Resolution	OASIS	Added new service version for Intertie Constraint Shadow Prices, Interval Intertie Constraint Shadow Prices, Contingency Dispatch Intertie Constraint Shadow Prices and MPM Intertie Constraint Shadow Prices reports to introduce new element.  Added new service version for below services as there are impacts to Group services due to Intertie Constraint Shadow Prices & MPM Intertie Constraint Shadow Prices services. However, there are no element changes to the artifacts. - Locational Marginal Prices - AS Clearing Prices - Nomogram/Branch Shadow Prices - MPM Intertie Constraint Competitive Paths - MPM Nomogram/Branch Shadow Prices - MPM Nomogram/Branch Competitive Paths	✓ v7.0.0; 6/4/21	✓ 9/21/21