



California ISO

Market Simulation Forum

September 11, 2025

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ISO PUBLIC

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Overview

- Presentation Summary of Changes
- Market Simulation Overview
- Market Simulation MAP Stage Availability
- Market Simulation MAP Stage Code
- Market Simulation Activities
- Market Simulation Settlements (if needed)
- Market Simulation Initiatives - Current
 - FERC881 Track 2
 - Transmission Exchange Agreement (TEA)
 - EDAM/DAME/Western EIM/BAA/ISO
- Market Simulation Initiatives - Upcoming
 - Subscriber Participation Transmission Ownership Model (Subscriber PTO)

Summary Of Changes

- Slide 8: Updated MSIM dates for Subscriber PTO

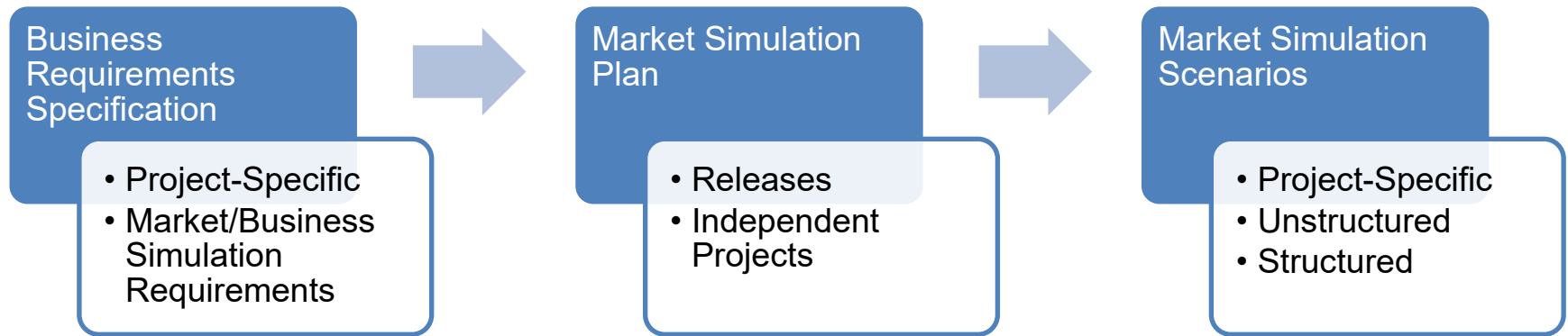
Market Simulation Overview

- Covers activities in the MAP Stage environment
- MAP Stage is an integrated Production-like environment that is available to customers with provisioned access
- Allows customers to experience ISO release/project implementations prior to Production implementation
- Market Simulation will allow customers and the CAISO to conduct specific market scenarios in a test environment prior to the Production activation to ensure that all system interfaces are functioning as expected and to produce simulated market results
- Customers may also use MAP Stage to validate the interaction of customer-driven changes with the ISO systems

Reasons for Market Simulation

- **Rule impacts:** Generalized changes in market rules, bidding rules, settlements rules, market design changes, or other business rules.
- **Interface changes:** Changes that impact templates (RA Supply Plan, Master File RDT, etc.), User Interfaces (UI), Application Programming Interface (API) / Web Service.
- **New/modified application/report:** Changes that cause addition/modification of ISO systems or reports, especially when data input is required by the customer
- **New/modified system process:** Modification of data flow in systems, especially if the new/modified process requires the customer to demonstrate proficiency prior to Production
- **New/modified model data:** Addition or substantial modification of model data as a market solution or export provided by the ISO
- **New/modified user role:** The addition or modification of access permissions for a user role

Market Simulation for ISO Implementation of Releases & Projects - Deliverables



Market Simulation Forums

Scheduled for 2-3PM PT

	Monday	Tuesday	Wednesday	Thursday	Friday
August					1
	4	5	6	7	8
	11	12	13	14	15
	18	19	20	21	22
	25	26	27	28	29
September	1	2	3	4	5
	8	9	10	11	12
	15	16	17	18	19
	22	23	24	25	26
	29	30			

**Market
Simulation
Forum**

ISO Closure

Cancelled

Market Simulation MAP Stage Availability

- MAP Stage weekly maintenance window is Friday*

System	UI	API	Comments
ADS			
ALFS	Not Available		
BAAOP			
BSAP			
CIRA			
CMRI			
CRR (old)		Not Available	
CRR (new)			
DRRS			
ECIC	Not Available		
FDR	Not Available		
MF			
OASIS			
OMS			
PLC		Not Available	
RCBSAP			
RIMS		Not Available	
SIBR			Maintenance until 8/29
MRIS			
TR		Not Available	
webWheel		Not Available	
webLineR	12/31/24	From 4/14	
AVAILABLE			
MAINTENANCE			

*Maintenance may also occur after 1600 PT on other days and may deviate from the weekly maintenance window as necessary

Market Simulation MAP Stage Code

System	MAP-STAGE	PRODUCTION	Comments
Market	Release 23	Release 23	
FNM	DB135.5	DB136	
ADS			
ALFS			
BAAOP			
BSAP			
CIRA			
CMRI			
DRRS			
ECIC			
FDR			
MF			
OASIS			
RCBSAP			
SIBR			
TR			

AHEAD OF PRODUCTION
SYNCED WITH PRODUCTION
BEHIND PRODUCTION

Market Simulation Activities

Initiative	Market Simulation	Comments	Activation
FERC881 Track 2	Connectivity Testing: <ul style="list-style-type: none"> • UI: 12/31/24 – 04/14/25 • API: 04/14/25 – 06/30/25 Market Simulation: <ul style="list-style-type: none"> • Unstructured: 04/14/25 – 06/30/25 	N/A	Track 2: 07/7/25
Transmission Exchange Agreement (TEA)	Unstructured MSIM (WAPA): 3/17/25 – 4/4/25 (new Aggregate Tie) Unstructured MSIM (WAPA, TEA BRS): Jan. 2026	N/A	Aggregate Tie: 05/01/25 Full Activation: March 2026
DAME / EDAM / Western EIM	See project slide.	BPM posting 7/1/25	See project slide 19.
Subscriber PTO	See project slide.	Training: Jun - Sept	10/01/25

Map-Stage Environment Issues

Initiative	Defects
FERC881 Track 2	N/A
Hybrid Resources Phase 2C (HR2C) - RIMS	N/A
Transmission Exchange Agreement (TEA)	N/A
DAME / EDAM / WEIM	N/A
Other projects and issues	N/A

Transmission Exchange Agreement (TEA)

- **Register by December 31, 2024**
- MF, SIBR, ETCC, ITS, Settlements, CMRI, OASIS
- Unstructured MSIM (WAPA Only): 03/17/25 - 04/4/25
- Full Scope Unstructured MSIM (WAPA Only, TEA BRS): Jan. 2026
- First Activation: Week of 05/1/25 (new Aggregate Tie)
- Full Activation: March 2026

Note: Refer to [TEA External BRS](#) for overview of functionality for October Activation.

			Feb 17, 2025							Feb 24, 2025							Mar 3, 2025							Mar 10, 2025							Mar 17, 2025							Mar 24, 2025													
TASK			START							END																																									
Unstructured Market Simulation																																																			
WAPA Only			2/24/25							3/14/25																																									
Activation																																																			
Go-Live			3/24/25							3/24/25																																									

DAME / EDAM / WEIM – Timeline

Initiative	Connectivity Testing	Integration Testing*	Structured Market Sim	Unstructured Market Sim	Parallel Operations	Activation
<u>Day-Ahead Market Enhancements</u>	06/02/25 – 09/01/25	06/02/25 – 09/01/25	09/02/25 – 12/01/25	12/01/25 – 01/15/26	02/02/26 – 03/26/26 (EDAM OB)	05/01/26
<u>Extended Day-Ahead Market</u>	06/02/25 – 09/01/25	06/02/25 – 09/01/25	09/02/25 – 12/01/25	12/01/25 – 01/15/26	02/02/26 – 03/26/26 (EDAM OB)	05/01/26
<u>EDAM ISO BAA Participation Rules Track A</u>	06/02/25 – 09/01/25	06/02/25 – 09/01/25	09/02/25 – 12/01/25	12/01/25 – 01/15/26	02/02/26 – 03/26/26 (EDAM OB)	05/01/26
<u>Extended Day-Ahead Market On-Boarding - Pacificorp</u>	05/01/25 – 05/31/25	06/02/25 – 09/01/25	09/02/25 – 12/01/25	12/01/25 – 01/15/26	02/02/26 – 03/26/26	05/01/26
<u>Extended Day-Ahead Market - PGE</u>	11/01/25 – 11/30/25	12/01/25 – 03/01/26	03/01/26 – 05/30/26	03/01/26 – 05/30/26	06/01/26 – 09/15/26	10/01/26
<u>WEIM – Power Watch</u>	09/01/25 – 10/17/25	10/01/26 – 11/30/26	12/01/25 – 02/13/26	NA	02/16/26 – 04/17/26	05/06/26
<u>WEIM – Black Hills</u>	09/01/25 – 10/17/25	10/01/26 – 11/30/26	12/01/25 – 02/13/26	NA	02/16/26 – 04/17/26	05/06/26

*Note: Formal Integration Period provided to Onboarding entities. For purposes of Market Simulation entities to perform Integration Testing to ensure provisioned application access.

Subscriber Participating Transmission Ownership Model (Subscriber PTO)

Connectivity/Integration Testing:

- 08/11/25 – 08/15/25 (Phase 1)
- 02/02/25 – 02/13/25 (Phase 2)

Unstructured Market Simulation:

- 09/17/25 - 09/23/25 (Phase 1)
- 02/16/25 – 03/20/26 (Phase 2)

Activation:

- 10/01/25 (Phase 1)
- 04/01/26 (Phase 2)

Note: Phase 1 to include all functionality except for Settlements and CMRI, Phase 2 includes Settlements and CMRI only.

This Market Simulation for Phase 1 and 2 is exclusively reserved for Sunzia. For Phase 1, ISO shall confirm upstream applications functioning as expected after submissions. For Phase 2, participant shall validate data via Settlements Statements and CMRI related reports. Since this is an unstructured market simulation no formal market simulation plan is being provided at this time.

Demand Response Registration System (DRRS) MRI-S Baseline

Unstructured Market Simulation:

- TBD

Activation:

- TBD

Note: Market Simulation is reserved exclusively for Demand Response Providers (DRPs) in DRRS MAPSTAGE.

ID#	Guidance on Market Participant Impacts	Source System	Sink System	Reason for Potential Scenario
CCFIM-MSIM-04020	<p>ISO DRPs Update Registration Start Date and End Date</p> <ul style="list-style-type: none">• Set up a scenario where DRPs within CAISO update registration Start Date and End Date that may or may not violate some of the DRRS business rules.• Follow the results in sink system to verify the update or the issuing of error messages to resolve any violation of the new rules.	DRRS	DRRS	<p>1. Rule Impacts</p> <p>4. New system process</p>

Unwarranted Storage Bid Cost Recovery

Unstructured Market Simulation:

- TBD

Activation:

- TBD

ID#	Guidance on Market Participant Impacts	Source System	Sink System	Reason for Potential Scenario
USBCR-MSIM-05020	<p>ISO, EDAM and WEIM-Only SCs Submit DA and RT Energy Bids for LESRs</p> <ul style="list-style-type: none">• Set up a scenario where SCs for resources within CAISO, EDAM and WEIM-Only BAAs submit DA and RT energy bids for LESRs that can trigger the new revision rules for RT BCR Settlements.• Run DAM (IFM and RUC).• Run RTM (FMM and RTD).• Run MQS (T+1C)• Run Settlements (T+5B)• Follow the results in sink systems to verify revised final bid prices are used in Settlements and published in CMRI.<ul style="list-style-type: none">○ CMRI<ul style="list-style-type: none">▪ Expected Energy Allocation Details○ Settlements<ul style="list-style-type: none">▪ RT BCR	<ul style="list-style-type: none">• SIBR	<ul style="list-style-type: none">• SIBR• MRI-S• CMRI	<p>1. Rule Impacts</p> <p>4. New system process</p>

Next Steps

- Work with your UAA to provision your organization's access to MAP Stage for access to the systems to execute Market Simulation
- Review BRS Market Simulation requirements, Market Simulation Plans, Market Simulation Scenarios and provide any feedback
- Register for participation in Market Simulation
- Attend the Release User Group Forums, every other week, for implementation updates, including active and upcoming Market Simulation activities
- During active Market Simulations, attend the weekly Market Simulation Forums

Market Simulation Registration

- **Please register for your participation in Market Simulation activities for each Market Simulation initiative as appropriate**
 - If you have intent to actively engage in MAP Stage testing of access, systems, functionality, processes, and/or review of results/data
- **This informs CAISO Market Simulation to provide more specific support for your efforts, including**
 - Data setup for your testing
 - More immediate communication and coordination impacting your testing/review
 - More detailed information for the applicable initiatives
- **How to register**
 - Submit CIDI with ‘Functional Environment’ = “Market Simulation”
 - Identify the Market Simulation initiative(s) you will participate in
 - Identify any specific resources as applicable
 - List the contacts and e-mail addresses that you would like to include
 - CIDI is preferred and if you don’t have CIDI, you can e-mail marketsim@caiso.com with the same information

Upcoming Meetings

- Market Simulation Forum:
 - Tuesday, Sept 18, 2025 @ 2:00 PM PT
- DAME, EDAM, EDAM CAISO BAA PR:
 - Mondays 9AM PT (registered participants only)
 - Thursdays 1PM PT (registered participants only)

Market Simulation Support

- Email general questions to marketsim@caiso.com
- Submit market simulation specific issues and questions in CIDI with subject: **“Project Name: System Name – Issue Title” with Functional Environment set to Market Simulation.**
 - If not related to a Project submit subject as “NA: System Name – Issue Title”
- Service Desk: (916) 351-2309