



# Market Simulation – Independent Releases 2022

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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

- Independent Releases 2022 MAP Stage Availability
- Independent Releases 2022 System Interface Changes
- Independent Releases 2022 Market Simulation Initiatives & Timelines
- Initiatives
  - Reliability Demand Response Resource Bidding Enhancements – Phase 1
  - Transmission Service and Market Scheduling Priorities – Phase 1
  - WEIM Resource Sufficiency Evaluation Enhancements Phase 1A
  - OMS Framework to WebVision
- Next Steps

# Independent Releases 2022 MAP Stage Availability

- Refer to MAP Stage portal <https://portalmap.caiso.com> for system availability information
- Current MAP Stage Scheduled Maintenance
  - OMS 4/27 thru 5/03
  - SIBR 4/29
- MAP Stage Weekly Maintenance Window
  - Friday

# Independent Releases 2022 - System Interface Changes

System	Release	Project	API Service Name & Major Version, Artifacts	MAP-Stage	Technical Specifications
SIBR	2022 Independent	N/A (Was FERC831)	RetrieveEnergyBidData_SIBR_v1_AP	April 2022	✓ 14.0; 7/29/21
SIBR	2022 Independent	Trans. Svc. & Mkt Sched. Priorities Ph. 1	New: SC of PT Export New: SC of supporting resource	5/3/22	Week of 4/25/22
OASIS	2022 Independent	Trans. Svc. & Mkt Sched. Priorities Ph. 1	New: ENE_SCH_REDUCTION New: ENE_LOAD_ADJUSTMENT	5/3/22	✓ 7.1.0; 3/24/22 ✓ 7.1.1; 4/11/22
RTM	2022 Independent	Resource Sufficiency Eval. Enh. Ph. 1	SubmitDemandResponseData_RTMv1	TBD	TBD
OASIS	2022 Independent	Resource Sufficiency Eval. Enh. Ph. 1	New: WEIM_RSE_CAPACITY_TEST New: WEIM_RSE_FLEX_RAMP_TEST	May 2022 (UI)	✓ 7.1.0; 3/24/22 ✓ 7.1.1; 4/11/22
CMRI	2022 Independent	Resource Sufficiency Eval. Enh. Ph. 1	New: ResourceBidCapacityData_v1	May 2022 (UI)	✓ 4/20/22
SIBR	2022 Independent	RDRR Bidding Enhancements Phase 1	Rules Only	✓ 4/12/22	✓ Rules v11.5 3/29/22

# Independent Releases 2022 Market Simulation Initiatives & Timelines

<b>Independent Releases 2022 Initiatives</b>	<b>Start Date</b>	<b>Start Date (Trade Date)</b>	<b>End Date</b>	<b>Structured Simulation Start (Trade Date)</b>
<b>Independent Releases 2022 Market Simulation</b>	04/19/22	04/19/22		04/19/22
Reliability Demand Response Resource Bidding Enhancements – Track-1	04/19/22	04/19/22	05/06/22	04/19, 04/21
Transmission Service and Market Scheduling Priorities-Phase 1	05/03/22	05/03/22	05/20/22	05/05/22
WEIM Resource Sufficiency Evaluation Enhancements Phase 1A	05/19/22			
OMS Framework to WebVision	May 2022	N/A	May 2022	N/A

Market Simulation Plan:

<https://www.caiso.com/Documents/MarketSimulationPlan-Independent2022Releases.pdf>

# Reliability Demand Response Resource Bidding Enhancements – Phase 1

- **Timeline:** April 12 – May 6
- **Structured:** April 19, 21

## Market Sim Structured Scenario Timeline

- 8:00 – 10:00 AM: Bid cap will be at \$1000 for RTM HE16 -19 (as well as all other RTM hours); submit a few RDRR bids within those hours (Scenario 1, part 1)
- 10:00 AM: CAISO will set conditions to raise the bid cap to \$2000 for RTM HE16-19
- 10:00 – 12:00 PM: Resubmit some RDRR bids once the cap has been raised; leave some bids at their old value and check that they were revised upward as expected once the market closes (Scenario 1, part 2)
- 12:00 PM: CAISO will set conditions to lower the bid cap back to \$1000 for RTM HE18-19
- 12:00 – COB: Resubmit some RDRR bids once the cap has been lowered; leave some bids at their old value and check that they were revised downward as expected once the market closes (Scenario 2).

## Example of SC action (assuming 3 resources, RDRR01, RDRR02, and RDRR03)

- 8:30 AM: Submit \$950-1000 bids for RDRR01, RDRR02, and RDRR03 for HE16-19
- 10:30 AM: Resubmit RDRR01 and RDRR02 bids at \$1900-2000 for HE16-19, leave RDRR03 bids at \$950-1000 à validate RDRR01/RDRR02 bids were accepted upon submission. Once RTM markets close, validate RDRR03 bids were revised upward as expected.
- 1:00 PM: Resubmit RDRR01 bids at \$950-1000 for HE18-19, leave RDRR02 bids at \$1900-2000 à validate RDRR01 bids were accepted upon submission. Once RTM markets close, validate RDRR02 bids were revised downward as expected.

Structured Scenarios document - <https://www.caiso.com/Documents/MarketSimulationStructuredScenarios-ReliabilityDemandResponseResourceBiddingEnhancements-Track-1.pdf>

# Transmission Service and Market Scheduling Priorities – Phase 1

- **Timeline:** May 3 – May 20
- **Structured:** May 05

Structured Scenarios document -

<https://www.caiso.com/Documents/MarketSimulationStructuredScenarios-TransmissionServiceandMarketSchedulingPriorities-Phase1.pdf>



# WEIM Resource Sufficiency Evaluation Enhancements Phase 1A

- **Timeline:**
  - Settlements Connectivity: TD March 31 – May 18, 2022
    - Settling every Tuesday and Thursday TD in MAP-Stage thru the end of May
    - For over/under charge code TD 3/29 does have the ISO being allocated to, and starting with TD 3/31, settlements RSEE1 is effective, where ISO is NOT being allocated to
  - Market Simulation: Start May 19, 2022
- **Structured:** TBD

# OMS Framework to WebVision

## Why?

- Microsoft Silverlight reached the end of support on October 12, 2021

## What to expect?

- Dependency on Silverlight and IE11. webVision will support Chrome, Edge and FireFox. IE11 is initially supported, but is not recommended.
- webVision framework changes will impact application menu, main page header, look and feel of ALL displays.
- Adds new framework features (e.g., Favorites)
- No data migration was involved and there is no change to business logic

## Notice – Silverlight no longer available for download

The California ISO will be upgrading the **Outage Management System (webOMS)** platform from Microsoft Silverlight to WebVision late May 2022. This will allow WebOMS users to access the application through other web browsers outside of Internet Explorer 11; therefore, discontinuing the dependency for Microsoft Silverlight.

Currently, **Microsoft Silverlight** has reached the **end of support** and is **no longer available for download**. This blocks users with new machines from downloading the Silverlight program from Microsoft.

To prevent impacts to webOMS for users with workstation refreshed prior to the upgrade to WebVision, the recommendation is to contact your IT Support to obtain a copy of the Silverlight program so that it can be installed onto your computer. This also applies to new users needing to access the webOMS application.

The California ISO does not provide copies of the Microsoft Silverlight program.

**Timeline: MAPSTAGE May 2022, Production by May 31, 2022**

# Next Steps

- The next teleconference is scheduled on April 28 at 1400 PDT

# 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)

# Market Simulation Issue Management

- Submit all issues to the CIDI case management system
- CIDI tickets must have “**Functional Environment**” = “**Market Simulation Summer 2022**” to be reviewed by ISO SMEs

# Independent Releases 2022 Communication Plan

- **Schedule**

<b><i>Monday</i></b> April 11, 18, 25 May 2, 9, 16	<b><i>Thursday</i></b> April 7, 14, 21, 28 May 5, 12, 19
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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

# 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 April 07, 2022.

We will do our best to accommodate for late registration



# Independent Releases 2022 MAP Stage Connectivity Testing

- **Timeline:**
  - Start TD 3/31 – 5/18 for RSEE1 Settlements

# Independent Releases 2022 Market Simulation Settlements Calendar

California ISO		Spring 2022 Market Sim Calendar (MAP STAGE) April 4, 2022 through May 20, 2022					
Calendar Day	Day	CMRI T+1B	Submit Meter Data by T+2B 10:00 for Initial T+9B	Publish Initial Statement T+5B T+9B	Submit Meter Data by T+5B 18:00 for Recalc T+70B	Publish Recalc Statement T+8B T+70B	Publish Market Invoice
04-Apr-22	Monday						
05-Apr-22	Tuesday						
06-Apr-22	Wednesday	5-Apr					
07-Apr-22	Thursday		5-Apr				
08-Apr-22	Friday	7-Apr					
09-Apr-22	Saturday						
10-Apr-22	Sunday						
11-Apr-22	Monday		7-Apr				
12-Apr-22	Tuesday			5-Apr	5-Apr		
13-Apr-22	Wednesday	12-Apr					
14-Apr-22	Thursday		12-Apr	7-Apr	7-Apr		
15-Apr-22	Friday	14-Apr					Daily Initial 05-Apr - 07-Apr; Monthly Initial 05-Apr - 07-Apr
16-Apr-22	Saturday					5-Apr	
17-Apr-22	Sunday						
18-Apr-22	Monday		14-Apr				
19-Apr-22	Tuesday			12-Apr	12-Apr	7-Apr	
20-Apr-22	Wednesday	19-Apr				Monthly Recalc 05-Apr - 07-Apr	Daily Recalc 05-Apr; 07-Apr; Monthly Recalc 05-Apr - 07-Apr
21-Apr-22	Thursday		19-Apr	14-Apr	14-Apr		
22-Apr-22	Friday	21-Apr				12-Apr	Daily Initial 12-Apr; 14-Apr; Monthly Initial 12-Apr - 14-Apr
23-Apr-22	Saturday						
24-Apr-22	Sunday						
25-Apr-22	Monday		21-Apr				
26-Apr-22	Tuesday			19-Apr	19-Apr	14-Apr	
27-Apr-22	Wednesday	26-Apr				Monthly Recalc 12-Apr - 14-Apr	Daily Recalc 12-Apr; 14-Apr; Monthly Recalc 12-Apr - 14-Apr
28-Apr-22	Thursday		26-Apr	21-Apr	21-Apr		
29-Apr-22	Friday	28-Apr				19-Apr	Daily Initial 19-Apr; 21-Apr; Monthly Initial 19-Apr - 21-Apr
30-Apr-22	Saturday						
01-May-22	Sunday						
02-May-22	Monday		28-Apr				
03-May-22	Tuesday					21-Apr; Monthly Recalc 19-Apr - 21-Apr	Daily Recalc 19-Apr; 21-Apr; Monthly Recalc 19-Apr - 21-Apr
04-May-22	Wednesday	3-May		26-Apr	26-Apr		
05-May-22	Thursday		3-May	28-Apr	28-Apr		
06-May-22	Friday	5-May				26-Apr	Daily Initial 26-Apr; 28-Apr; Monthly Initial 26-Apr - 28-Apr
07-May-22	Saturday						
08-May-22	Sunday						
09-May-22	Monday		5-May				

Market Simulation Settlements Calendar Independent Releases 2022 :  
<https://www.caiso.com/Documents/MarketSimulationSettlementsCalendar-IndependentReleases2022.pdf>