

# Market Simulation – Independent Releases 2022

Anshuman Vaidya
Market Simulation Lead

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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
  - 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 <a href="https://portalmap.caiso.com">https://portalmap.caiso.com</a> for system availability information
- Current MAP Stage Scheduled Maintenance
  - OMS 6/3
  - OASIS 6/6 Brief Interruption
  - CMRI week of 6/6 Tentative
- 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	6/3/22	<b>✓</b> 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	✓ 5/5/22 (UI)	TBD
OASIS	2022 Independent	Trans. Svc. & Mkt Sched. Priorities Ph. 1	New: ENE_SCH_REDUCTION New: ENE_LOAD_ADJUSTMENT	✓ 5/24/22 (UI & API)	<b>√</b> 7.1.3
ВААОР	2022 Independent	Resource Sufficiency Eval. Enh. Ph. 1	SubmitDemandResponseData_RTMv1	✓ 5/19/22 (UI)	TBD
OASIS	2022 Independent	Resource Sufficiency Eval. Enh. Ph. 1	New: WEIM_RSE_CAPACITY_TEST New: WEIM_RSE_FLEX_RAMP_TEST	6/6/22 (UI & API)	✓ 7.1.3
CMRI	2022 Independent	Resource Sufficiency Eval. Enh. Ph. 1	New: ResourceBidCapacityData_v1	6/9/22 (UI)	<b>√</b> 4/20/22
SIBR	2022 Independent	RDRR Bidding Enhancements Phase 1	Rules Only	✓ 4/12/22 Page 5	✓ Rules v11.5 3/29/22



## Independent Releases 2022 Market Simulation Initiatives & Timelines

Independent Releases 2022 Initiatives	Start Date	Start Date (Trade Date)	End Date	Structured Simulation Start (Trade Date)
Independent Releases 2022 Market Simulation	04/19/22	04/19/22		04/19/22
Transmission Service and Market Scheduling Priorities-Phase 1	05/10/22	05/10/22	06/07/22	05/10 – Scenario 1 05/26 – Scenario 2,3
WEIM Resource Sufficiency Evaluation Enhancements Phase 1A	05/19/22			
OMS Framework to WebVision	5/10	N/A	6/8	N/A

### Market Simulation Plan:

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



## Transmission Service and Market Scheduling Priorities – Phase 1

- Timeline: May 10 June 07
- Structured: May 10 Scenario 1
  - May 26 Scenario 2,3
- Trading Hours: HE 13 HE 16

### Structured Scenarios document -

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



# Transmission Service and Market Scheduling Priorities – Phase 1

Milestone Type	Milestone Name	Dates	Status
Market Sim	Market Sim Window  SIBR UI available in MAPSTAGE SIBR API available in MAPSTAGE Scenario 1  OASIS UI available in MAPSTAGE OASIS API available in MAPSTAGE Scenario 2, 3	May 5, 2022 – May 20, 2022  May 5, 2022  TBD  May 10, 2022  May 24, 2022  May 24, 2022  May 26, 2022	✓ <p< td=""></p<>
Production	SIBR UI available in PRODUCTION SIBR API available in PRODUCTION OASIS UI available in PRODUCTION OASIS API available in PRODUCTION	June 1, 2022 TBD June 8, 2022 June 8, 2022	<b>✓</b>



## 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 Scenarios document -

https://www.caiso.com/Documents/Market-Simulation-Scenarios-WEIM-Resource-Sufficiency-Evaluation-Enhancements-Phase1A.pdf



# WEIM Resource Sufficiency Evaluation Enhancements Phase 1A

RSEE ID	Description	System	Market Simulation Impact
RSEE- 1010	Consideration of Supply Conditions in the Capacity Test	Market	
RSEE- 1020	Flexible Ramping Test Modifications – PBC	Market	Yes
RSEE- 1030	Consider a Resource's Transition through FOR in the Flexible Ramping Test.	Market	
RSEE- 1040	RSE Modifications – Storage Resources Treatment	Market	
RSEE- 1050	Balancing Test Modifications	Settlements	Yes
RSEE- 1060	DR Inclusion with RSE	Market, BAAOP	Yes
RSEE- 1070	Reliability of CAISO Interchange Schedules	Market	
RSEE- 1090	Increased RSE Data on RSE Results and Additional Data Transparency and Reporting	OASIS	
RSEE- 1100	Increased WEIM Entities Situational Awareness Regarding Test Performance	Market, CMRI, OASIS	
RSEE- 1110	Net-Load Uncertainty Calculation Removal from Capacity Test	Market	
RSEE- 1120	Intertie Uncertainty Calculation Removal from Capacity Test	Market	

Gro up	System / Interface	MAP- Stage	Productio n
1	Settlements	Effective as of TD 3/31/22	TD 6/1/22
1	Market	5/19/22	6/1/22
1	BAAOP UI	5/19/22	6/1/22
2	OASIS UI	6/6/22	6/15/22
2	OASIS API	6/6/22	6/15/22
2	CMRI UI	6/9/22	6/15/22
3	CMRI API	TBD	TBD
3	BAAOP API	TBD	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 10, Production June 9
The ISO has published supporting documentation.



## **Next Steps**

The next teleconference is scheduled on June 6 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



## 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

Monday	Thursday
April 11, 18, 25	April 7, 14, 21, 28
May 2, 9, 16	May 5, 12, 19

### 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 <a href="MarketSim@caiso.com">MarketSim@caiso.com</a> 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	Publish Initial Statement T+5B	Submit Meter Data by T+5B 18:00 for Recalc	Publish Recalc Statement T+8B	Publish Market Invoice
04-Apr-22	Monday		T+9B	T+9B	T+70B	T+70B	
05-Apr-22	Tuesday						
	Wednesday	F.4					
07-Apr-22	Thursday	5-Apr					
08-Apr-22	Friday	7.4	5-Apr				
09-Apr-22	Saturday	7-Apr					
10-Apr-22	Sunday						
11-Apr-22	Monday		7-Apr				
12-Apr-22	Tuesday		7-501	5-Apr	5-Apr		
13-Apr-22	Wednesday	12-Apr		370	374		
14-Apr-22	Thursday	12-npi	12-Apr	7-Apr	7-Apr		
15-Apr-22	Friday		22.70	7.4	774		Daily Initial 05-Apr; 07-Apr;
		14-Apr		Monthly Initial 05-Apr - 07-Apr		5-Apr	Monthly Initial 05-Apr - 07-A
16-Apr-22	Saturday						
17-Apr-22	Sunday						
18-Apr-22	Monday		14-Apr				
19-Apr-22	Tuesday			12-Apr	12-Apr	7-Apr	
	Wednesday	19-Apr				Monthly Recalc 05-Apr - 07-Apr	Daily Recalc 05-Apr; 07-Ap Monthly Recalc 05-Apr - 07-A
21-Apr-22	Thursday		19-Apr	14-Apr	14-Apr		
22-Apr-22	Friday	21-Apr		Monthly Initial 12-Apr - 14-Apr		12-Apr	Daily Initial 12-Apr; 14-Apr; Monthly Initial 12-Apr - 14-A
23-Apr-22	Saturday						
24-Apr-22	Sunday						
25-Apr-22	Monday		21-Apr				
26-Apr-22	Tuesday			19-Apr	19-Apr	14-Apr	
	Wednesday	26-Apr				Monthly Recalc 12-Apr - 14-Apr	Daily Recalc 12-Apr; 14-Apr Monthly Recalc 12-Apr - 14-A
28-Apr-22	Thursday		26-Apr	21-Apr	21-Apr		
29-Apr-22	Friday	28-Apr		Monthly Initial 19-Apr - 21-Apr		19-Apr	Daily Initial 19-Apr; 21-Apr; Monthly Initial 19-Apr - 21-A
30-Apr-22							
01-May-22	Sunday						
12-May-22			28-Apr				
3-May-22	,			26-Apr	26-Apr	21-Apr; Monthly Recalc 19-Apr - 21-Apr	Daily Recalc 19-Apr; 21-Apr Monthly Recalc 19-Apr - 21-A
	Wednesday	3-May					
05-May-22			3-May	28-Apr	28-Apr		
6-May-22		5-May		Monthly Initial 26-Apr - 28-Apr		26-Apr	Daily Initial 26-Apr; 28-Apr Monthly Initial 26-Apr - 28-A
07-May-22							
18-May-22							
19-Mau-22	Monday		E May				1

Market Simulation Settlements Calendar Independent Releases 2022 :

https://www.caiso.com/Documents/MarketSimulationSettlementsCalendar-IndependentReleases2022.pdf



# Reliability Demand Response Resource Bidding Enhancements – Phase 1

Timeline: April 12 – May 6

Structured: April 19, 21

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

