Market Simulation – Independent Releases 2022

Anshuman Vaidya
Market Simulation Lead

Apr 25, 2022
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](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

<table>
<thead>
<tr>
<th>System</th>
<th>Release</th>
<th>Project</th>
<th>API Service Name &amp; Major Version, Artifacts</th>
<th>MAP-Stage</th>
<th>Technical Specifications</th>
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<tbody>
<tr>
<td>SIBR</td>
<td>2022 Independent</td>
<td>N/A (Was FERC831)</td>
<td>RetrieveEnergyBidData_SIBR_v1_AP</td>
<td>April 2022</td>
<td>✓ 14.0; 7/29/21</td>
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<td>RTM</td>
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<td>Resource Sufficiency Eval. Enh. Ph. 1</td>
<td>SubmitDemandResponseData_RTMv1</td>
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<td>SIBR</td>
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<td>RDRR Bidding Enhancements Phase 1</td>
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<td>✓ Rules v11.5 3/29/22</td>
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# Independent Releases 2022 Market Simulation Initiatives & Timelines

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

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 to 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 to validate RDRR01 bids were accepted upon submission. Once RTM markets close, validate RDRR02 bids were revised downward as expected.

Transmission Service and Market Scheduling Priorities – Phase 1

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

Structured Scenarios document -
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
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

<table>
<thead>
<tr>
<th>Monday</th>
<th>Thursday</th>
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<tbody>
<tr>
<td>April 11, 18, 25</td>
<td>April 7, 14, 21, 28</td>
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<tr>
<td>May 2, 9, 16</td>
<td>May 5, 12, 19</td>
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• Connection Information
  – Web Conference Information
    • Web Address: [https://caiso.webex.com/meet/MarketSim](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 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

### Spring 2022 Market Sim Calendar (MAP STAGE)
April 4, 2022 through May 20, 2022

<table>
<thead>
<tr>
<th>Calendar Day</th>
<th>Day</th>
<th>CMRI T+1B Submit Meter Data by T+20 10:00 for Initial</th>
<th>Publish Initial Statement T+1B</th>
<th>Publish Initial Statement T+1B</th>
<th>CMRI T+1B Submit Meter Data by T+60 10:00 for Recalc</th>
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<td>10-June-2022</td>
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<td>11-June-2022</td>
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Market Simulation Settlements Calendar Independent Releases 2022: