Agenda

- Spring 2014 Market Simulation Initiatives and Timelines
- Spring 2014 MAP Stage Availability
- Acceptable Use Policy Phase 1
- FERC 764 with Dynamic Transfers
- RIMPR Phase 1 with Post Emergency BCR
- IE 9 Testing Update
- Next Steps
- Reference Slides
Spring 2014 Release Market Simulation Initiatives and Timelines

Spring Release Market Simulation - MAP-Stage will remain open and the ISO will continue to support unstructured scenario support through 4/30/14

FERC Order 764 Compliance with 15 Minute Market and Dynamic Transfers - February 11th – April 18th, 2014 (Structured and Unstructured)

Post Emergency Filing Bid Cost Recovery (BCR) with Mandatory Multi-Stage Generations (MSG), Renewable Integration Market and Product Review (RIMPR) Phase, Bid Cost Recovery (BCR) Mitigation Measures and Bid Floor Cap - February 11th – April 18th, 2014 (Structured and Unstructured)

Revisions to Price Corrections - February 17th – March 7th, 2014 (Unstructured) - Completed

Acceptable Use Policy Phase 1 (Enforcement) – March 28th, 2014
Spring 2014 Release MAP Stage Availability

Upcoming Scheduled Maintenance - Closing April 4\textsuperscript{th}, 2014 @ 09:00 to 20:00

MAP Stage Spring Release Daily Maintenance Window - 16:00 - 20:00

MAP Stage Weekly Maintenance Window - Friday’s, 09:00 - 20:00
The Acceptable Use Policy Phase 1 Simulation timeline –

• Acceptable Use Policy Phase 1 Enforcement OASIS only: March 28th, 2014 (Unstructured)

OASIS Services Implemented –

• TRNS_CURR_USAGE
• AS_OP_RSRV
• SLD_FCST_PEAK
FERC 764 with Dynamic Transfers Simulation

The FERC Order 764 Compliance with 15 Minute Market and Dynamic Transfers Simulation timeline –

- FERC Order 764 Compliance with 15 Minute Market and Dynamic Transfers: February 11th – April 18th, 2014 (Structured and Unstructured)

- Structured Scenario Execution Dates Week 1
  - Scenario’s #1 & #2 TD 2/13

- Structured Scenario Execution Dates Week 2
  - Scenario #8 TD 2/18 and Scenario #9 TD 2/19

- Structured Scenario Execution Dates Week 3
  - Scenario #7 TD 2/25

- Structured Scenario Execution Dates Week 4
  - No Scenarios Run

- Structured Scenario Execution Dates Week 5
  - Scenario #1 & #2 TD 3/13

- Structured Scenario Execution Dates Week 6
  - Scenario #5 TD 3/18, Scenario #6 TD 3/19 and Scenario #3 & #4 TD 3/20
<table>
<thead>
<tr>
<th>#</th>
<th>Application</th>
<th>Severity (H/M/L)</th>
<th>New or Existing Variance</th>
<th>Variance Description</th>
<th>Resolution Expectations</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>SIBR</td>
<td>L</td>
<td>Delayed</td>
<td>MP can retrieve the historical forecast from SC VER but the status is not indicated</td>
<td>To be delivered by 4/10</td>
</tr>
<tr>
<td>2</td>
<td>CMRI</td>
<td>M</td>
<td>New</td>
<td>When there is more than one Expected Energy Allocation record of the same energy type, market type, and price, CMRI mistakenly considers the additional records as duplicates and will not display them.</td>
<td>To be fixed by 4/4.</td>
</tr>
<tr>
<td>3</td>
<td>CMRI</td>
<td>M</td>
<td>New</td>
<td>For tie resources bidding as 'Once' (one change per hour) and are marginal resources such that the single change is not dispatched to a whole MW, the rounding function is not working. The rounded value should be the same in consecutive intervals but is not.</td>
<td>To be fixed by 4/4.</td>
</tr>
<tr>
<td>4</td>
<td>CMRI</td>
<td>M</td>
<td>New</td>
<td>For some hourly tie resources on PACI, the FMM awards for interval 2 (IE:30) are cut below their HASP dispatch level. Congestion is not present.</td>
<td>No ETA, intent is to resolve no later than early April.</td>
</tr>
<tr>
<td>5</td>
<td>CMRI</td>
<td>M</td>
<td>New</td>
<td>The DA self-schedule values are not getting to our expected energy calculation engine.</td>
<td>To be fixed by 4/4.</td>
</tr>
<tr>
<td>6</td>
<td>CMRI</td>
<td>M</td>
<td>New</td>
<td>The DA self-schedule values are not getting to our expected energy calculation engine.</td>
<td>To be fixed by 4/4.</td>
</tr>
<tr>
<td>#</td>
<td>Application</td>
<td>Severity (H/M/L)</td>
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</tr>
<tr>
<td>7</td>
<td>CMRI/Settlements</td>
<td>M</td>
<td>New</td>
<td>The expected energy calculation engine is receiving FMM schedules and prices from the first interval, not the second (binding) interval. Affects expected energy and allocation reports in CMRI and settlements processes which use expected energy and allocation. Started 3/28 for CMRI, 4/1 for settlements</td>
<td>No ETA, intent is to resolve ASAP.</td>
</tr>
</tbody>
</table>
The RIMPR Phase 1, BCR changes with Bid Floor and Mandatory MSG –

- RIMPR Phase 1, BCR changes with Bid Floor and Mandatory MSG: February 11th – April 18th, 2014 (Structured and Unstructured)
  - Bid Floor Cap Structured Scenario Execution Date Scenario #1 TD 2/27
Internet Explorer 9 Testing Update

Applications with potential IE9 issues –

1. Application Identity Management (AIM)
2. Market Results Interface Settlements (MRI-S)
3. Resource interconnection Management System (RIMS)

ISO to publish a list of workarounds for issue’s uncovered during IE9 validation.
Next Steps

- The next teleconference will take place at 13:00 PPT on Monday, April 7th, 2014.
Spring 2014 Release Market Simulation Plan

ISO Market Simulation Support

- **Hours** - 09:00 - 18:00, PST (Monday through Friday)
- **Phone** - (916) 351-2248
- **ISO’s 24X7 Help Desk** - (916) 351-2309 (Connectivity, Endpoints)
- **Email** - MarketSim@caiso.com
Market Simulation Issue Management

- Submit all issues to the CIDI case management system.
- CIDI tickets will need to have “Functional Environment = Market Simulation Spring 2014” to be reviewed by ISO SME’s.
ISO will host Bi-weekly call on Mondays and Thursdays starting February 3rd, 2014

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>28 – Kick Off Call</th>
<th>3, 6, 10, 13, 18, 20, 24, 27</th>
<th>3, 6, 10, 13, 17, 20, 24, 27</th>
</tr>
</thead>
<tbody>
<tr>
<td>January</td>
<td>1:00 p.m. to 2:30 p.m. (Pacific Time)</td>
<td></td>
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<tr>
<td>February</td>
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<tr>
<td>March</td>
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The web conference details are different for each scheduled meeting. Please refer to the California ISO public calendar at [http://www.caiso.com/Pages/Calendar.aspx](http://www.caiso.com/Pages/Calendar.aspx) for current login information relevant for each meeting.

Please note ISO has shifted the normally scheduled call from February 17th to 18th, 2014 in observance of Presidents Day.
<table>
<thead>
<tr>
<th>Report</th>
<th>Release</th>
<th>Affected API Version</th>
<th>Availability as of spring 2014 release</th>
</tr>
</thead>
</table>
| Expected Energy               | GoLive                | RetrieveExpectedEnergy_PTR_AP  
RetrieveExpectedEnergy_PTR_DocAttach_AP                                              | Remain supported                       |
| MSG                           | GoLive                | RetrieveExpectedEnergy_PTRv20091101_AP  
RetrieveExpectedEnergy_PTRv20091101_DocAttach_AP                                      | Remain supported                       |
| GMT Fall 2013                 | GoLive                | RetrieveExpectedEnergy_CMRIv1_AP  
RetrieveExpectedEnergy_CMRIv1_DocAttach_AP                                              | To be decommissioned                   |
| Spring 2014                   | GoLive                | RetrieveExpectedEnergy_CMRIv2_AP  
RetrieveExpectedEnergy_CMRIv2_DocAttach_AP                                              | New version will be supported          |
| Expected Energy Allocation    | GoLive                | RetrieveExpectedEnergyAllocationDetails_PTR_AP  
RetrieveExpectedEnergyAllocationDetails_PTR_DocAttach_AP                               | Remain supported                       |
| MSG                           | GoLive                | RetrieveExpectedEnergyAllocationDetails_PTRv20091101_AP  
RetrieveExpectedEnergyAllocationDetails_PTRv20091101_DocAttach_AP                     | Remain supported                       |
| GMT Fall 2013                 | GoLive                | RetrieveExpectedEnergyAllocationDetails_CMRIv1_AP  
RetrieveExpectedEnergyAllocationDetails_CMRIv1_DocAttach_AP                           | To be decommissioned                   |
| Spring 2014                   | GoLive                | RetrieveExpectedEnergyAllocationDetails_CMRIv2_AP  
RetrieveExpectedEnergyAllocationDetails_CMRIv2_DocAttach_AP                           | New version will be supported          |
| ISO Commitment Cost Details   | GoLive                | RetrieveISOCommitmentCostDetails_PTR_AP  
RetrieveISOCommitmentCostDetails_PTR_DocAttach_AP                                       | Remain supported                       |
| MSG                           | GoLive                | RetrieveISOCommitmentCostDetails_PTRv20091101_AP  
RetrieveISOCommitmentCostDetails_PTRv20091101_DocAttach_AP                            | Remain supported                       |
| GMT Fall 2013                 | GoLive                | RetrieveISOCommitmentCostDetails_CMRIv1_AP  
RetrieveISOCommitmentCostDetails_CMRIv1_DocAttach_AP                                  | To be decommissioned                   |
| Spring 2014                   | GoLive                | RetrieveISOCommitmentCostDetails_CMRIv2_AP  
RetrieveISOCommitmentCostDetails_CMRIv2_DocAttach_AP                                  | New version will be supported          |
| Market Schedules              | Spring 2014           | RetrieveMarketSchedules_CMRIv1_AP  
RetrieveMarketSchedules_CMRIv1_DocAttach_AP                                             | New version will be supported          |
| Non-Dispatchable Time Ranges  | Spring 2014           | RetrieveNonDispatchableTimeRanges_CMRIv1_AP  
RetrieveNonDispatchableTimeRanges_CMRIv1_DocAttach_AP                                  | New version will be supported          |
| Market Forecast               | Spring 2014           | RetrieveMarketForecast_CMRIv1_AP  
RetrieveMarketForecast_CMRIv1_DocAttach_AP                                              | New version will be supported          |
Web Service Impacts OASIS

- Current Transmission Usage: TRNS_CURR_USAGE
- Transmission Interface Usage: TRNS_USAGE
- Market Available Transfer Capacity: TRNS_ATC
- CAISO Demand Forecast: SLD_FCST
- Wind and Solar Forecast: SLD_REN_FCST
- Locational Marginal Prices - 15 minute level: PRC_RTPD_LMP (new)
## Web Service Impacts

<table>
<thead>
<tr>
<th>Service Operation</th>
<th>Version 4 Multi-Stage Generator</th>
<th>Version 5 Contingency Dispatch Enhancements</th>
<th>Version 6 FERC764</th>
</tr>
</thead>
<tbody>
<tr>
<td>Retrieve/Request</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>getDispatchBatchesSinceUID</td>
<td>To be decommissioned upon spring 2014 ADS deployment</td>
<td>Will still be supported</td>
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<tr>
<td>getBatchStatus</td>
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<tr>
<td>getBatchHeader</td>
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<tr>
<td>getDispatchBatch</td>
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<tr>
<td>isNewTrajData</td>
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<td>getTrajectoryData</td>
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<td>submitMSSLFRequest</td>
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<td>validateDispatchBatch</td>
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<tr>
<td>Response</td>
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<tr>
<td>acceptInstruction</td>
<td>To be decommissioned upon spring 2014 ADS deployment</td>
<td>To be decommissioned upon FERC 764 activation</td>
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<tr>
<td>declineInstruction</td>
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<tr>
<td>partialAcceptInstruction</td>
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