Agenda

• Fall 2014 Market Simulation Initiatives and Timelines
• Upcoming Market Simulation Call Schedule
• Fall 2014 MAP Stage Availability
• Many to Many (Re-run)
• FRAC MOO
• OMS
• Next Steps
• Reference Slides
Fall 2014 Release Market Simulation Initiatives and Timelines


**FRAC-MOO Settlements and RUC Validation** - December 8th, 2014 – December 19th, 2014 (Structured & Unstructured)

**DRS API’s** - January 6th, 2015 – January 16th, 2015 (Unstructured)
Upcoming Market Simulation Call Schedule

Market Simulation calls to end December 18\textsuperscript{th}, 2014.

Calls will resume after the holiday break January 5\textsuperscript{th}, 2015 for OMS and DRS API’s with Enabling Demand Response Simulation.
Fall 2014 Release MAP Stage Availability

- WebOMS MAP Stage Scheduled Maintenance – Today 4PM – 7PM (December 11\textsuperscript{th}, 2014)
FRAC MOO

- **Flexible Resource Adequacy Criteria and Must Offer Obligation (FRAC-MOO) RUC Validation:** December 8th, 2014 – December 19th, 2014 (Structured & Unstructured)

- Week one Structured with Settlements, week two unstructured no Settlements

- Kick off Call December 8th, 2014.

**DATA:**
1. ISO will use Production Submitted January RA and Flexible RA NQC
2. Select two resources for CPM scenario (1 & 2)
3. Create outages in OMS for selected RA resources
4. Select use limited resource for RA RUC scenario (4) (Optional)

Please provide the resource information to reliabilityrequirements@caiso.com and marketsim@caiso.com by no later than December 5th, 2014.
## TD 12/10 FRAC-MOO structured scenarios

<table>
<thead>
<tr>
<th>Scenario</th>
<th>Description</th>
<th>ISO Actions</th>
<th>SC Actions</th>
<th>Expected Outcome</th>
<th>Anticipated Settlement Outcome</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1</strong></td>
<td>Test CPM settlement calculation for resource’s designated CPM under flexible RA capacity.</td>
<td>ISO will CPM units for flexible RA capacity.</td>
<td>Manage resources CPM availability through OMS outages. Verify settlement statements.</td>
<td>Resource shall have flexible RA capacity equal to the flexible CPM capacity, and receive payment for providing capacity during the CPM designation period.</td>
<td>Resources that are available during the CPM designation period shall receive CPM payment. The cost shall be allocated to the deficient LSE.</td>
</tr>
<tr>
<td><strong>2</strong></td>
<td>Test CPM settlement calculation for resource’s designated with overlapping CPM flexible RA &amp; generic RA capacity.</td>
<td>ISO will CPM units for both flexible RA and generic capacity.</td>
<td>Manage resources CPM availability through OMS outages. Verify settlement statements.</td>
<td>Resource shall have generic and flexible RA capacity equal to the associated CPM capacity. In addition, the resource shall receive payment for providing capacity during the CPM designation period.</td>
<td>Resources that are available during the CPM designation period shall receive CPM payment. The cost shall be allocated to the deficient LSE.</td>
</tr>
</tbody>
</table>
### Scenario Description

<table>
<thead>
<tr>
<th>Scenario</th>
<th>FRAC-MOO structured scenarios</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>3</strong></td>
<td><strong>TD 12/11</strong></td>
</tr>
<tr>
<td>Description</td>
<td>Test bid insertion of RA capacity in the RUC market.</td>
</tr>
<tr>
<td>ISO Actions</td>
<td>ISO will create RA data.</td>
</tr>
<tr>
<td>SC Actions</td>
<td>Verify bid insertion by market system.</td>
</tr>
<tr>
<td>Expected Outcome</td>
<td>RA bids shall be inserted into the RUC market at the greater of generic or flexible RA capacity.</td>
</tr>
<tr>
<td>Anticipated Settlement Outcome</td>
<td></td>
</tr>
<tr>
<td><strong>4</strong></td>
<td><strong>12/12</strong></td>
</tr>
<tr>
<td>Description</td>
<td>Test flexible RA capacity is not eligible for RUC award payment.</td>
</tr>
<tr>
<td>ISO Actions</td>
<td>ISO will create RA data. ISO will create RUC awards</td>
</tr>
<tr>
<td>SC Actions</td>
<td>Verify settlement statement</td>
</tr>
<tr>
<td>Expected Outcome</td>
<td>RUC awards for capacity already designated as flexible RA shall not receive a RUC award payment.</td>
</tr>
<tr>
<td>Anticipated Settlement Outcome</td>
<td>RUC awards that overlap with flexible RA capacity shall have their payments rescinded in the RUC No Pay charge code.</td>
</tr>
</tbody>
</table>
## FRAC MOO CPM Designations

<table>
<thead>
<tr>
<th>Resource ID</th>
<th>CPM Designation</th>
<th>CPM Code</th>
<th>CPM Start Date</th>
<th>CPM End Date</th>
<th>CPM MW</th>
</tr>
</thead>
<tbody>
<tr>
<td>GATWAY_2_PL1X3</td>
<td>Flexible RA Capacity</td>
<td>FRDEF</td>
<td>12/9/2014</td>
<td>12/12/2014</td>
<td>25</td>
</tr>
<tr>
<td>COLGAT_7_UNIT</td>
<td>Flexible RA Capacity</td>
<td>FRDEF</td>
<td>12/9/2014</td>
<td>12/12/2014</td>
<td>60</td>
</tr>
<tr>
<td>COLGAT_7_UNIT</td>
<td>Exceptional Dispatch</td>
<td>SYSEMR</td>
<td>12/11/2014</td>
<td>12/12/2014</td>
<td>100</td>
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<tr>
<td>SCHLTE_1_PL1X3</td>
<td>Flexible RA Capacity</td>
<td>FRDEF</td>
<td>12/9/2014</td>
<td>12/12/2014</td>
<td>100</td>
</tr>
<tr>
<td>SCHLTE_1_PL1X3</td>
<td>Collective deficiency of Local RA Capacity</td>
<td>COLDEF1</td>
<td>12/11/2014</td>
<td>12/12/2014</td>
<td>60</td>
</tr>
<tr>
<td>RVSIDE_6_RERCU1</td>
<td>Flexible RA Capacity</td>
<td>FRDEF</td>
<td>12/9/2014</td>
<td>12/12/2014</td>
<td>10</td>
</tr>
<tr>
<td>RVSIDE_6_RERCU1</td>
<td>Insufficient Local RA Capacity</td>
<td>LOCAL2</td>
<td>12/11/2014</td>
<td>12/12/2014</td>
<td>15</td>
</tr>
<tr>
<td>CORONS_6_CLRWTR</td>
<td>Flexible RA Capacity</td>
<td>FRDEF</td>
<td>12/9/2014</td>
<td>12/12/2014</td>
<td>10</td>
</tr>
<tr>
<td>CORONS_6_CLRWTR</td>
<td>Capacity at Risk of Retirement</td>
<td>ROR2</td>
<td>12/11/2014</td>
<td>12/12/2014</td>
<td>15</td>
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<tr>
<td>SBERDO_2_PSP3</td>
<td>Flexible RA Capacity</td>
<td>FRDEF</td>
<td>12/9/2014</td>
<td>12/12/2014</td>
<td>160</td>
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<tr>
<td>SBERDO_2_PSP3</td>
<td>CPM Significant Event</td>
<td>SIGEVT2</td>
<td>12/11/2014</td>
<td>12/12/2014</td>
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<tr>
<td>SBERDO_2_PSP4</td>
<td>Flexible RA Capacity</td>
<td>FRDEF</td>
<td>12/9/2014</td>
<td>12/12/2014</td>
<td>160</td>
</tr>
<tr>
<td>SBERDO_2_PSP4</td>
<td>Insufficient RA Capacity (System)</td>
<td>CADEF2</td>
<td>12/11/2014</td>
<td>12/12/2014</td>
<td>300</td>
</tr>
</tbody>
</table>
Many to Many (Re-run)

ISO is providing MP’s the opportunity to re run Many to Many unstructured testing in the first week of December.

Details -

• December RA data to be used
• TD December 3rd and 4th
• Outages must be entered 72 hours in advance in OMS
• ISO to publish Initial statement for TD 12/3 and 12/4, Mini Monthly for TD 12/3 and 12/4 on December 9th
• Please use 12/4 for M2M validation only, environment issues caused missing data
Outage Management System

The Outage Management System Market Simulation –

• Outage Management System: July 28\textsuperscript{th} – January 30\textsuperscript{th}, 2015 (Unstructured)

Beginning July 28\textsuperscript{th}, 2014 ISO will approve outages with no ISO operations review; this will last until August 1\textsuperscript{st}, 2014. ISO will be approving outages throughout the day for outages submitted prior to 16:00, for immediate outage approval please email MarketSim@caiso.com.

Beginning August 4\textsuperscript{th}, 2014 ISO operations will review submitted outages prior to 16:00 daily, this support will end August 15\textsuperscript{th}, 2014.

The time period from August 18\textsuperscript{th}, 2014 through the end of unstructured market simulation January 30\textsuperscript{th}, 2015. ISO will be approving outages throughout the day for outages submitted prior to 16:00, for immediate outage approval please email MarketSim@caiso.com.
<table>
<thead>
<tr>
<th>#</th>
<th>Application</th>
<th>Severity (H/M/L)</th>
<th>New or Existing Issue</th>
<th>Issue Description</th>
<th>Resolution Expectations</th>
<th>CIDI #</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>OMS</td>
<td>H</td>
<td>Existing</td>
<td>For Availability Points OMS only allows user to copy one cell at a time.</td>
<td>Enhancement estimated for January</td>
<td>152052</td>
</tr>
<tr>
<td>2</td>
<td>OMS</td>
<td>L</td>
<td>Existing</td>
<td>Retrieve Resource Outage API does not support retrieval of outages by different date modes similar to SLIC. Currently, the API supports retrieval of outages by date range where the date range applies to the outage duration.</td>
<td>Enhancement estimated TBD</td>
<td>154873</td>
</tr>
<tr>
<td>3</td>
<td>OMS</td>
<td>H</td>
<td>Existing</td>
<td>When modifying actual Start Date/Time the start point under availability is still corresponding to the planned start Date/Time.</td>
<td>ISO looking into this. Release date will be announced soon.</td>
<td>155998</td>
</tr>
<tr>
<td>4</td>
<td>OMS</td>
<td>M</td>
<td>Existing</td>
<td>Map Stage B2B API: submitResourceOutage_v1_DocAttach case sensitivity fires a framework error</td>
<td>ISO is Investigating</td>
<td>157795</td>
</tr>
<tr>
<td>5</td>
<td>OMS</td>
<td>M</td>
<td>Existing</td>
<td>In some instances OMS reports access denied when performing Retrieve Availability.</td>
<td>ISO is waiting for details from Customer</td>
<td>157202</td>
</tr>
<tr>
<td>6</td>
<td>OMS</td>
<td>M</td>
<td>Existing</td>
<td>B2B retrieve resource outage by date range criteria failing with an error has occurred. Please contact OATI support</td>
<td>ISO cannot reproduce. Is this still an issue?</td>
<td>N/A</td>
</tr>
<tr>
<td>#</td>
<td>Application</td>
<td>Severity (H/M/L)</td>
<td>New or Existing Issue</td>
<td>Issue Description</td>
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</tr>
<tr>
<td>7</td>
<td>OMS</td>
<td>H</td>
<td>Existing</td>
<td>Map stage B2B retrieve availability incorrectly fails with no data found error</td>
<td>ISO cannot reproduce. Is this still an issue?</td>
<td>158162</td>
</tr>
<tr>
<td>8</td>
<td>OMS</td>
<td>H</td>
<td>Existing</td>
<td>Retrieve transmission/resource outage by participant id failing for a date range of about 1 1/2 months</td>
<td>Targeted 12/11</td>
<td>N/A</td>
</tr>
<tr>
<td>9</td>
<td>OMS</td>
<td>H</td>
<td>Existing</td>
<td>Receiving framework errors from CAISO OMS when accessed via API on multiple instances</td>
<td>This should have been addressed during the last maintenance window. Customer to confirm</td>
<td>158270</td>
</tr>
<tr>
<td>10</td>
<td>OMS</td>
<td>H</td>
<td>Existing</td>
<td>Retrieve Outages by Wildcard by Participant intermittent failures</td>
<td>ISO is Investigating</td>
<td>N/A</td>
</tr>
<tr>
<td>11</td>
<td>OMS</td>
<td>H</td>
<td>New</td>
<td>Map stage B2B retrieve availability – Pmax Value does not reflect the derate from an Outage</td>
<td>Target 12/11</td>
<td>158629</td>
</tr>
</tbody>
</table>
Next Steps

• The next teleconference will take place @ 13:00 PPT on Monday, December 15th, 2014
ISO System Access Documentation

ISO Market Simulation Support

- **Hours** - 09:00 - 18:00, PST (Monday through Friday)
- **Mkt Sim Coordinator Phone** - (530) 518 - 8539
- **ISO’s 24X7 Help Desk** - (916) 351-2309 (Connectivity - GUI or API)
- **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 Fall 2014” to be reviewed by ISO SME’s.