



# Market Simulation – Winter 2017 Release

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Sr. Change & Release Planner

February 12, 2018

# Agenda

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- Winter 2017 Market Simulation Initiatives and Timelines
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# Winter 2017 MAP Stage Availability

## Current MAP Stage Scheduled Maintenance

- February 12 – SIBR API, BSAP API (SIBR UI & BSAP UI to remain available)
- February 20 – TLS 1.0/1.1 Deactivation
- February 20-23, 2018 – All Systems
  
- TBD based on start of CCE3 Market Simulation – MF, SIBR, BSAP, ALFS, DRS

## MAP Stage Weekly Maintenance Window

- Monday 0900 – Tuesday 0900

# Winter 2017 Market Simulation Initiatives and Timelines

<b><u>Winter 2017 Release Initiatives</u></b>	<b><u>Start Date</u></b>	<b><u>Start Date (Trade Date)</u></b>	<b><u>End Date</u></b>	<b><u>Structured Simulation Start (Trade Date)</u></b>	<b><u>Expected Participation</u></b>
<b><u>Winter 2017 Release Market Simulation</u></b>					
<b>EIM Idaho Power Company</b>	12/01/17	12/01/17	01/31/18	12/6/17	EIM Entities
<b>EIM Powerex</b>	12/01/17	12/01/17	01/31/18	1/3/18	EIM Entities
<b>EIM Enhancements Winter 2017</b>	12/01/17	12/01/17	01/31/18	1/9/18	EIM Entities
<b>Reliability Services Initiatives 2017</b>	12/05/17	12/05/17	01/31/18	12/5/17	ISO Market Participants

Market Simulation Plan –

<http://www.caiso.com/Documents/MarketSimulationPlan-Winter2017Release.pdf>

# Winter 2017 Release Market Simulation Focus

Week	Dates (Tuesday thru Friday, Monday is Maintenance)	Focus
1	12/5-12/8	<ul style="list-style-type: none"> <li>EIM Idaho Scenarios</li> <li>RSI CIRA and OMS only - Structured</li> </ul>
2	12/12-12/15	<ul style="list-style-type: none"> <li>EIM Idaho Scenarios</li> <li>RSI CIRA and OMS only - Structured</li> </ul>
3	12/19-12/22	<ul style="list-style-type: none"> <li>EIM Idaho Scenarios</li> <li>RSI CIRA and OMS only - Unstructured</li> </ul>
4	12/26-12/29 (ISO Holiday 12/25-Monday)	<ul style="list-style-type: none"> <li>MAP-Stage available; unsupported</li> <li>RSI CIRA and OMS only - Unstructured</li> </ul>
5	1/2-1/5 (ISO Holiday 1/1-Monday)	<ul style="list-style-type: none"> <li>EIM Powerex Scenarios</li> <li>RSI CIRA and OMS only - Unstructured</li> </ul>
6	1/9-1/12	<ul style="list-style-type: none"> <li>EIM Winter 2017 Scenarios</li> <li>EIM Powerex Scenarios</li> <li>EIM Idaho Scenarios</li> <li>RSI CIRA and OMS only - Unstructured</li> </ul>
7	1/16-1/19 (ISO Holiday 1/15-Monday)	<ul style="list-style-type: none"> <li>EIM Powerex Scenarios</li> <li>EIM Idaho Scenarios</li> <li>RSI/RAAIM End to End - Structured</li> </ul>
8	1/23-1/26	<ul style="list-style-type: none"> <li>EIM Powerex Scenarios</li> <li>RSI/RAAIM End to End - Structured</li> </ul>
9	1/30-1/31	<ul style="list-style-type: none"> <li>Unstructured Bid to Market Output</li> </ul>

## EIM Enhancements Winter 2017

### **The EIM Enhancements Winter 2017 Market Simulation timeline –**

**EIM Winter 2017:** December 1 – January, 31 2018

**Unstructured:** December 1 – January 5, 2018

**Structured:** January 9 – January 12, 2018

# RSI 2017

## The RSI 2017 Simulation timeline –

**RSI 2017:** December 5 – January 31, 2018

**Structured:** CIRA and OMS only December 5 – December 15; End to End January 16 – 19 and January 23 - 26, 2018

**Unstructured:** December 18 – January 12, 2018

- RSI 2017 Structured Scenarios - [http://www.caiso.com/Documents/StructuredScenarios-Draft-ReliabilityServicesInitiative\\_2017.pdf](http://www.caiso.com/Documents/StructuredScenarios-Draft-ReliabilityServicesInitiative_2017.pdf)
- RSI 2017 RA Plan (can also be downloaded from MAP-Stage CIRA) - [http://www.caiso.com/Documents/ResourceAdequacyPlanTemplate\\_2018.xls](http://www.caiso.com/Documents/ResourceAdequacyPlanTemplate_2018.xls)
- RSI 2017 Supply Plan (can also be downloaded from MAP-Stage CIRA) - [http://www.caiso.com/Documents/SupplyPlanTemplate\\_2018.xls](http://www.caiso.com/Documents/SupplyPlanTemplate_2018.xls)

# RSI 2017

- **Available in Production now: MPs to provision the new CIRA roles in AIM accordingly for your organization:**
  - app\_cira\_supplier\_read\_ext
  - app\_cira\_supplier\_write\_ext
  - The new supplier roles have been created to provide suppliers access to:
    - (1) Outage analysis (for their outages)
    - (2) POSO analysis (for their outages)
    - (3) Provide substitutions for their planned outages.
  - Currently, the app\_cira\_sc role has access to the forced substitution screen which we are not changing but in the future we plan to separate the LSE role from the suppliers at which point only the suppliers will have access to the forced substitution functionality.
  - AIM User Guide -  
[http://www.caiso.com/Documents/AccessandIdentityManagement\\_AIM\\_UserGuide.pdf](http://www.caiso.com/Documents/AccessandIdentityManagement_AIM_UserGuide.pdf)

## CIRA User Guide

- <http://www.caiso.com/Documents/CIRAUserGuideforMarketParticipants.pdf>



# Winter 2017 Known Issues

#	System	Summary	Status	Estimated Fix Date	CIDI #
1	Settlements	The RT LAP Prices available in MAP Stage may not align with the existing price formulation in Production in all cases. As a result, shadow calculations based on the Production algorithm may not yield the same result as seen in MAP Stage.	Fix delivered and ISO validating in pre-MAP-Stage environment	TBD	N/A
2	Settlements/CIRA	Missing Flex RAIM Settlement	Resolved	2/12/18 Settlements statements for TDs 1/23, 1/24, 1/25 to be republished	201586

# Winter 2017 Settlements

Calendar Day	CMRI T+1B	Publish Initial Statement T+4B	Submit Meter Data by T+4B 18:00 for Recalc	Publish Recalc Statement T+8B	Publish Market Invoice
04-Dec-17					
05-Dec-17					
06-Dec-17	5-Dec				
07-Dec-17	6-Dec				
08-Dec-17	7-Dec				
09-Dec-17					
10-Dec-17					
11-Dec-17		5-Dec	5-Dec		
12-Dec-17		6-Dec	6-Dec		
13-Dec-17	12-Dec	7-Dec	7-Dec		
14-Dec-17	13-Dec	5-Dec - 7-Dec			5-Dec - 7-Dec - I
15-Dec-17	14-Dec			5-Dec	
16-Dec-17					
17-Dec-17					
18-Dec-17					
19-Dec-17		12-Dec, 13-Dec		6-Dec, 7-Dec	
20-Dec-17	19-Dec	14-Dec		5-Dec - 7-Dec	
21-Dec-17	20-Dec	12-Dec - 14-Dec			
22-Dec-17	21-Dec				12-Dec - 14-Dec - I 5-Dec - 7-Dec - R
23-Dec-17					
24-Dec-17					
25-Dec-17	ISO Holiday				
26-Dec-17		19-Dec			
27-Dec-17		20-Dec			
28-Dec-17		21-Dec			
29-Dec-17		19-Dec - 21-Dec			
30-Dec-17					
31-Dec-17					

\*Updated 2/7/18

# Winter 2017 Settlements

Calendar Day	CMRI T+1B	Publish Initial Statement T+4B	Submit Meter Data by T+4B 18:00 for Recalc	Publish Recalc Statement T+8B	Publish Market Invoice
01-Jan-18	ISO Holiday				
02-Jan-18					
03-Jan-18					
04-Jan-18	3-Jan				
05-Jan-18	4-Jan				
06-Jan-18					
07-Jan-18					
08-Jan-18					
09-Jan-18		3-Jan	3-Jan		
10-Jan-18	9-Jan	4-Jan	4-Jan		
11-Jan-18	10-Jan	3-Jan - 4-Jan			
12-Jan-18					
13-Jan-18					
14-Jan-18					
15-Jan-18	ISO Holiday				
16-Jan-18		9-Jan	9-Jan	3-Jan	
17-Jan-18	16-Jan	10-Jan	10-Jan	4-Jan	
18-Jan-18	17-Jan			3-Jan - 4-Jan	
19-Jan-18	18-Jan	9-Jan - 10-Jan			
20-Jan-18					
21-Jan-18					
22-Jan-18	19-Jan		16-Jan	9-Jan	9-Jan - 10-Jan - I
23-Jan-18		17-Jan	17-Jan	10-Jan	
24-Jan-18	23-Jan	18-Jan , 16-Jan	18-Jan		
25-Jan-18	24-Jan	19-Jan 16-Jan - 19-Jan	19-Jan	9-Jan - 10-Jan	
26-Jan-18	25-Jan			16-Jan	
27-Jan-18					
28-Jan-18					
29-Jan-18	26-Jan	23-Jan		17-Jan	16-Jan - 19-Jan - I 9-Jan - 10-Jan - R
30-Jan-18		24-Jan	24-Jan	18-Jan	
31-Jan-18		25-Jan		19-Jan	

\*Updated 2/7/18

# Winter 2017 Settlements

Calendar Day	CMRI T+1B	Publish Initial Statement T+4B	Submit Meter Data by T+4B 18:00 for Recalc	Publish Recalc Statement T+8B	Publish Market Invoice
01-Feb-18		Jan 26 23-Jan - 26-Jan		16-Jan - 19-Jan	
02-Feb-18					
03-Feb-18					
04-Feb-18					
05-Feb-18				24-Jan	
06-Feb-18					
07-Feb-18					
08-Feb-18					
09-Feb-18					
10-Feb-18					
11-Feb-18					
12-Feb-18					
13-Feb-18					
14-Feb-18	13-Feb				
15-Feb-18	14-Feb				
16-Feb-18	15-Feb				
17-Feb-18					
18-Feb-18					
19-Feb-18	<b>ISO Holiday</b>				
20-Feb-18		13-Feb			
21-Feb-18		14-Feb			
22-Feb-18		15-Feb			
23-Feb-18		13-Feb - 15-Feb			13-Feb 14-Feb 15-Feb 13-Feb - 15-Feb
24-Feb-18					
25-Feb-18					

\*Updated 2/7/18



California ISO

# RAAIM Modifications Results Overview

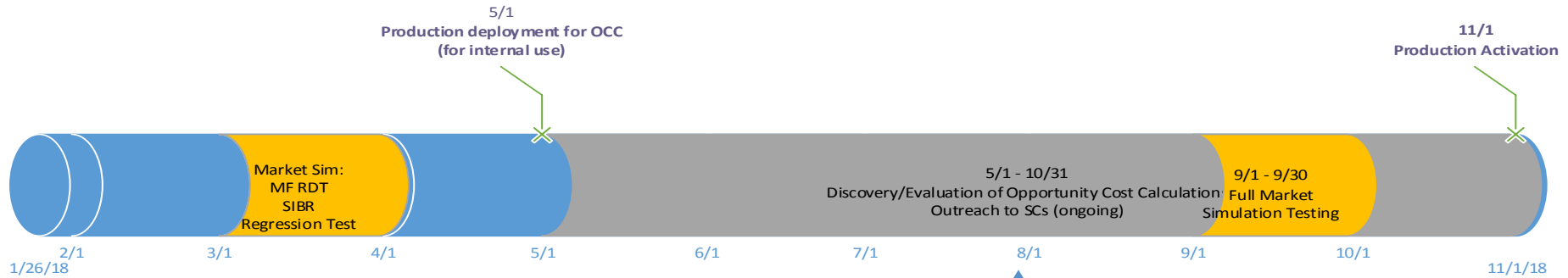
Mel Ciubal & Brian Rothstein  
Market Settlements Design & Configuration

February 12, 2018

# RAAIM Statement Publication Status

- **01/23 – 01/25/2018 Monthly Initial Market Statement (Run number 2018020913) – Completed**
  - Statement published 2/9/18.
  - Partial Flex Obligation requirements broadcast from CIRA.
  - MSDC held processing of daily recalc and monthly recalc until full dataset received from CIRA.
- **CIRA re-published full dataset for DA and RT Flex Obligation quantities – Completed**
- **01/23/2018 Daily Recalc Market Statement (Run number 2018021211) – Completed**
  - Participants can validate CIRA RA Obligation quantities and daily settlement calculations
- **01/24/2018 Daily Recalc Market Statement (Run number 2018021212) – Completed**
- **01/25/2018 Daily Recalc Market Statement (Run number 2018021213) – Completed**
- **01/23 - 01/25/2018 Monthly Recalc Market Statement (Run number 2018021214) – Completed**
  - Participants can validate RAAIM monthly calculations

# Commitment Cost Enhancements Phase 3



## Discovery/Evaluation Timeframe: Expectations

- New process to be defined; primarily an internal CAISO effort
- CAISO will identify resources impacted, type of constraints they have, and what time of eligibility period they will declare (monthly, annual, rolling)
- CAISO will then identify the formulation for calculation of opportunity costs (i.e. types of constraints that fit into model)
- CAISO can then validate the type of constraint declared and how constraints are translated into any of the three defined model constraints in the system
- CAISO will also be able to separate the resources that go into formula-based calculation versus resources that fall into negotiated opportunity costs.
  - For the negotiated option, CAISO will identify how to determine negotiated opportunity costs, which will be tailored to each resource.
- Planning for simulation of OCC in September, including integration of the OCC so that MPs can see adders flowing into SIBR and available in CMRI.
- Prior to November 1<sup>st</sup>, data will not be flowing downstream (publication explicitly blocked). During this period CAISO will interact with each MP depending on the specifics of their resources. This will be tracked via CIDI tickets.

\*Updated 2/5/18

## Next Steps

- The next teleconference will take place @ 14:00 PPT on Thursday, February 15, 2018



# THANK YOU

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# Reference Slides

# Winter 2017 Market Simulation Communication Plan

## **Schedule –**

**Mondays** - December 4, 11, 18; January 8, 22, 29 (3PM on 1/29); and February 5, 12

**Tuesdays** - January 2, 16

**Thursdays** - December 7, 14; January 4, 11, 18, 25; and February 1, 8, 15

## **Connection information –**

### **Web Conference Information**

Web Address (URL): <http://ems7.intellor.com/login/714714>

Audio connection instructions will be available after connecting to the web conference.

### **Telephone-Only Participation**

Please only use this dial-in method if unable to participate by web to enhance the ability to participate in Q&A

Call in: 877-369-5230, Access Code: 0299083#

### **Technical Support**

AT&T Connect support at 1-888-796-6118

# ISO Market Simulation Support

- **Hours** - 09:00 - 18:00, PST (Monday through Friday)
- **Mkt Sim Coordinator Phone** - (916) 351-2248
- **ISO's 24X7 Help Desk** - (916) 351-2309 (Connectivity - GUI 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 will need to have “Functional Environment” = “**Market Simulation Winter 2017**” to be reviewed by ISO SME’s.

# ISO System Access Documentation

- [http://www.caiso.com/Documents/SystemAccessInformation\\_MarketParticipants.pdf](http://www.caiso.com/Documents/SystemAccessInformation_MarketParticipants.pdf)

# ISO System Interface Change Summary

- <http://www.caiso.com/Documents/SystemInterfaceChangeSummary.pdf>