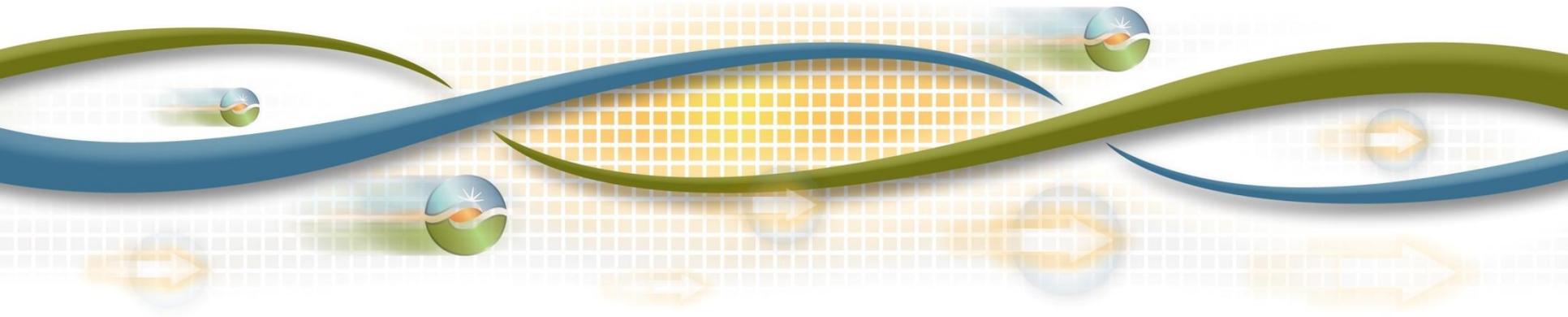




Market Simulation – Independent 2017 Releases

Christopher McIntosh
Lead Market Simulation Coordinator

Independent 2017 Releases Market Simulation
October 12, 2017



Agenda

- ISO Market Simulation Support
- Market Simulation Issue Management
- Independent 2017 Market Simulation Communication Plan
- Independent 2017 MAP Stage Availability
- Independent 2017 Market Simulation Initiatives and Timelines
- Web Service Modifications for Upcoming Releases
- Initiatives -
 - Independent 2017 -
 - Bidding Rules Enhancements - Part B
 - Known Issues List
 - Independent 2017 Settlements
- MAP Stage Deployments
- Next Steps
- Reference Slides

Independent 2017 Release MAP Stage Availability

Current MAP Stage Scheduled Maintenance –

CMRI – Monday, October 16, 2017

MAP Stage Daily Maintenance Window - Tuesday, Wednesday and Thursday
16:00 – 20:00

MAP Stage Weekly Maintenance Window - Monday's 09:00 - Tuesday 09:00

Independent 2017 Release Market Simulation Initiatives and Timelines

<u>Independent 2017 Release Market Simulation</u>	<u>Start Date</u>	<u>Start Date (Trade Date)</u>	<u>End Date</u>	<u>Structured Simulation Start (Trade Date)</u>	<u>Expected Participation</u>
Bidding Rules Enhancements - Part B	9/22/2017	9/22/2017	10/20/2017	N/A	EIM Entities and CAISO Market Participants

Market Simulation Plan –

http://www.caiso.com/Documents/MarketSimulationPlan_Fall_Independent2017Releases.pdf

Fall 2017/Independent 2017/Winter 2017/Spring 2017 CMRI/OASIS/MF API Change Summary

System	Change Type	Service Type	Service	Major Version	Minor Version	RDT	Release	Project	MAP Stage	Activation
CMRI	New	Retrieve	Daily Electricity Price Index	1	20171001		2017	BRE-B	9/8/17	11/1/2017
CMRI	New	Retrieve	Actual Limitation Values	1	20171001		Spring 2018	CCE-3	March 2017	5/1/2018
CMRI	New	Retrieve	Resource Opportunity Cost	1	20171001		Spring 2018	CCE-3	March 2017	5/1/2018
CMRI	New	Retrieve	External Default Commitment Cost	1	20171001		2017	EIM 2017	October 2017	11/1/2017
CMRI	New	Retrieve	Gas Burn Resource Data	1	20171001		2017	Gas Burn	10/10/17	11/1/2017
CMRI	New	Retrieve	Gas Burn Summary Data	1	20171001		2017	Gas Burn	10/10/17	11/1/2017
CMRI	Modify	Retrieve	EIM Entity Market Base Schedules	1	20171001		2017	Enhancement	October 2017	11/1/2017
CMRI	Modify	Retrieve	Market Base Schedules	1	20171001		2017	Enhancement	October 2017	11/1/2017
OASIS	New		PUB_CSP_OFFER_SET				Winter 2017	RSI	12/6/17	4/1/2018
OASIS	New		ENE_EIM_FLEX_RAMP_INPUT				Winter 2017	EIM 2017 Winter	12/1/17	4/1/2018
OASIS	New		PRC_RTM_LAP				Winter 2017	EIM 2017 Winter	12/1/17	4/1/2018
OASIS	New		Control Area Generating Capability List				2017	Gas Burn	10/10/17	11/1/2017
MF	Modify	Retrieve	GeneratorRDT	4	20180201	11.0	Winter 2017	EIM Winter 2017	12/1/17	4/1/2018
MF	Modify	Submit	GeneratorRDT	4	20180201	11.0	Winter 2017	EIM Winter 2017	12/1/17	4/1/2018
MF	Modify	Retrieve	GeneratorRDT	TBD	20180501	12.0	Spring 2018	BRE-B CCE-3 RSI	March 2017	5/1/2018
MF	Modify	Submit	GeneratorRDT	TBD	20180501	12.0	Spring 2018	BRE-B CCE-3 RSI	March 2017	5/1/2018

Independent 2017 Bidding Rules Enhancements – Part B

**The Bidding Rules Enhancements – Part B Market Simulation timeline –
BREB: September 22 – October, 20, 2017 (Unstructured)**

Independent 2017 Known Issues List

- None open at this time

Independent 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
09-Oct-17					
10-Oct-17					
11-Oct-17					
12-Oct-17	11-Oct-17				
13-Oct-17					
14-Oct-17					
15-Oct-17					
16-Oct-17					
17-Oct-17		11-Oct-17	11-Oct-17		
18-Oct-17					
19-Oct-17					
20-Oct-17					
21-Oct-17					
22-Oct-17					
23-Oct-17				11-Oct-17 Price correction	11-Oct-17 R
24-Oct-17					
25-Oct-17					
26-Oct-17					
27-Oct-17					
28-Oct-17					
29-Oct-17					

Gas Burn Report

Gas Burn Report MAP Stage Availability: October 17, 2017

Next Steps

- The next teleconference will take place @ 14:00 PPT on Monday, October 16, 2017

Reference Slides

ISO System Access Documentation

- http://www.caiso.com/Documents/SystemAccessInformation_MarketParticipants.pdf

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

Market Simulation Issue Management

- Submit all issues to the CIDI case management system.
- CIDI tickets will need to have “Functional Environment” = **“Independent Market Simulation 2017”** to be reviewed by ISO SME’s.

Independent 2017 Release Market Simulation Communication Plan

Mondays:	Month	Dates	Time
	September	11, 18, 25	2:00 p.m. to 3:00 p.m. (Pacific Time)
Tuesday:	Month	Dates	Time
	September	5	1:30 p.m. to 2:30 p.m. (Pacific Time)
Thursdays:	Month	Dates	Time
	August	31	2:00 p.m. to 3:00 p.m. (Pacific Time)
	September	7, 14, 21, 28	

Connection Instructions

Please connect 5-10 minutes prior to the conference to allow time for a short download.

Web Conference Information

Web Address (URL): <http://ems7.intellor.com/login/713808>

Call-in: 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 ensure the ability to participate in Q&A

Call in: 877-369-5230, Access Code: 0267459#

Technical Support

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

Independent 2017 CMRI ACL

The CMRI ACL Market Simulation timeline –

- **CMRI Access Control Resource Level:** Unstructured, August 28, 2017

User Guide and Training Materials -

<http://www.caiso.com/Pages/documentsbygroup.aspx?GroupID=EBFDD87D-9926-4BFE-8DBD-09AA3D1E5CC5>

Settlements RAAIM Production Defects Validation

Draft BPM is available under PRR 1012

External Validation Plan -

- Copy production data into map stage using trade dates 4/1/2017 to 4/7/2017
- In MAP Stage:
 - Calculate Daily and Monthly Initial statements using configuration without formula fixes, then publish to MRI-S
 - Calculate Daily and Monthly Recalc statements using configuration with new formula fixes, then publish to MRI-S

Data available for validation in MAP Stage MRI-S: September 12, 2017

- All the statements will be published and available in MAP-Stage on this date

Settlements RAAIM Production Defects Validation

Defect Summary List

#	System	Summary	CAISO Functionality Test	Available for Market Sim Validation
1	Settlements	Applying outage exemptions for non-Resource Specific System RA Resources	Passed	Yes
2	Settlements	Availability calculations for NGR REM with RA capacity	Passed	Yes
3	Settlements	Exempting RMR resources from RAAIM	Passed	No
4	Settlements	Resources being assessed in Real Time when it is a Long Start or Extremely Long Start resource, and also is eligible for RAAIM exemption for being a combined heat and power resource, QF resource, participating load that is pumping load, resource with acquired rights, or have pmax < 1.0 MW.	Passed	Yes
5	Settlements	BA_HRLY_RSRC_DA_REG_DOWN_AWARD@QUANTITY not showing in the Business Associate Bill Determinant Files	Passed	Yes

Known Issues List

#	System	Summary	Estimated Fix Date

- **No known issues at this time**