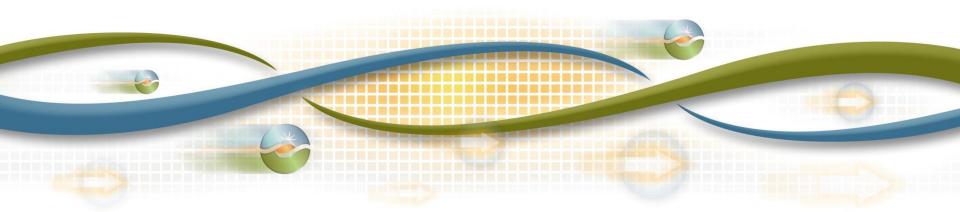


## Market Simulation – Spring and Independent 2017 Releases

Christopher McIntosh
Lead Market Simulation Coordinator

Spring and Independent 2017 Releases Market Simulation March 23, 2017



### Agenda

- Spring and Independent 2017 MAP Stage Availability
- Spring and Independent 2017 Market Simulation Initiatives and Timelines
- Initiatives
  - LMPM Enhancements
  - PIRP System Decommissioning
  - MRI-S ACL Groups and CPG Enhancements
- Known Issues
- OMS Roadmap Web Service Change
- Next Steps
- Reference Slides

# Spring and Independent 2017 Releases MAP Stage Availability

MAP Stage Scheduled Maintenance –

Upcoming maintenance -

MRI-S GUI only offline, return time not determined. To be communicated via MAP Stage MP Portal and Market Notice.

CMRI outage March 27, 2017

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

MAP Stage Weekly Maintenance Window - Monday 08:00 - Tuesday 09:00

Please refer to the MAP Stage portal at <a href="https://portalmap.caiso.com">https://portalmap.caiso.com</a> for specific application availability information.



## Spring and Independent 2017 Releases Market Simulation Initiatives and Timelines

Spring and Independent 2017 Releases Initiatives	Start Date	Start <u>Date</u> (Trade <u>Date)</u>	End Date	Structured Simulation Start (Trade Date)	Expected Participation
Spring 2017 Release Market Simulation					
RTD LMPM	2/6/17	2/7/17	2/24/17	N/A	EIM Entities and ISO MPs
PIRP System Decommissioning	3/28/17	N/A	4/11/17	N/A	ISO MPs
Independent 2017 Release Market Simulation					
MRI-S ACL Groups and CPG Enhancements	3/13/17	N/A	TBD	N/A	EIM Entities and ISO MPs

Market Simulation Plan -

http://www.caiso.com/Documents/MarketSimulationPlan\_Spring\_Independent2017R eleases.pdf



## Local Market Power Mitigation (LMPM) Enhancements Simulation

#### **LMPM Enhancements Market Simulation timeline - Complete**

#### CMRI Tech Spec -

http://www.caiso.com/Documents/CMRI-InterfaceSpecification\_v3\_5\_4Clean\_Fall2016Release.pdf

#### OASIS Tech Spec -

http://www.caiso.com/Documents/OASIS-InterfaceSpecification\_v4\_3\_5Clean\_Spring2017Release.pdf

OASIS LMPM Enhancements reports deployed to MAP Stage March 15, 2017 -

- Updated PRC\_MPM\_RTM\_REF\_BUS to add support for RTD LMPM
- Updated PRC\_MPM\_RTM\_NOMOGRAM\_CMP to add support for RTD LMPM
- Updated PRC\_MPM\_CNSTR\_CMP to add support for RTD LMPM

Please use these reports for validation starting March 16, 2017 HE 16 RTD Interval 5



## PIRP System Decommissioning Simulation

#### PIRP System Decommissioning Market Simulation timeline -

PIRP System Decommissioning Simulation - March 28, 2017 – April 11, 2017

#### CMRI Tech Spec -

 http://www.caiso.com/Documents/CMRI-InterfaceSpecification\_v3\_5\_4Clean\_Fall2016Release.pdf



## MRI-S ACL Groups and CPG Enhancements Simulation

#### MRI-S ACL Groups and CPG Enhancements Market Simulation timeline -

 MRI-S ACL Groups and CPG Enhancements Simulation - March 13, 2017 – TBD Unstructured

#### MRI-S Tech Spec -

 http://www.caiso.com/Documents/OMAROnlineReplacementTechnicalSpecificationCleanV1 10.pdf

#### **AIM ACL Training –**

 http://www.caiso.com/Documents/Access\_IdentityManagementAccessControlListTraining-Jan\_2017.pdf

#### AIM User Guide (updated February 16, 2017) -

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

#### **Known Issues**

#	System	Summary	Status	Estimated Fix Date
1		Implementation of the requirement stated in MRIS-BRQ085 for allowing users within the same organization to view the batch submission status is being delayed in market simulation pending further security validations.	Open	This will be implemented prior to the close of market simulation, date TBD.
2		The error description for error code 1028 incorrectly has X and Y instead of the actual meter value and PMAX, respectively.	Open	This will be implemented prior to the close of market simulation, date TBD.
3		Intermittent issues with Export function in the UI not returning expected results.	Open	This will be fixed prior to the close of market simulation. For now, the ISO is planning on opening the UI without the export function to allow further testing on other functionality.
4	MRI-S	UpdateSinceDateTime does not allow time input	New	This will be fixed prior to the close of market simulation, date TBD.
5	I	IntervalEndTime for 3/12/2017 (DST Date) is not displaying correctly	New	This will be fixed prior to the close of market simulation, date TBD.

Link - <a href="http://www.caiso.com/Documents/Spring2017KnownIssuesList.xlsx">http://www.caiso.com/Documents/Spring2017KnownIssuesList.xlsx</a>

#### **Transmission B2B Service Changes**

- Transmission B2B Service Changes
  - V1 supported, V2 to be added
  - NoW Enumerations: RIMS\_OUTAGE, RIMS\_TESTING,
  - New Equipment Type SYNCHRONOUS\_MACHINE and Multiple instances of Adjusted Operational Limit per Equipment

Nature of Work	Switch Modeling	EquipmentD erate	Overlaps Allowed	Exclusive Nature of Work
RIMS Outage	Α	А	Yes	Yes
RIMS Testing	Α	Α	Yes	Yes
Out of service	R	А	Yes	Yes
Energized Work			Yes	Yes
Relay work		А	Yes	Yes
Special Setup	Α	А	Yes	Yes
Test Program	Α	А	Yes	Yes
Equipment Derate		R	Yes	Yes
Equipment Abnormal	Α	А	Yes	Yes
Path Limitation	Α	А	Yes	Yes
Communications			Yes	Yes
Out of Service with Special Setup	Α	Α	Yes	Yes



#### **Next Steps**

 The next teleconference will take place @ 14:00 PPT on Monday March 27, 2017

#### Reference Slides



# Settlements Calendar for Settlements Production Release (sample statement)

Calendar Day	CMRI T+1B	Publish Initial Statement T+4B
04-Mar-17		
05-Mar-17		
06-Mar-17		
07-Mar-17		
08-Mar-17		
09-Mar-17	8-Mar	
10-Mar-17		
11-Mar-17		
12-Mar-17		
13-Mar-17		
14-Mar-17		8-Mar
15-Mar-17		
16-Mar-17		
17-Mar-17		

Draft Configuration Output File has been posted under "Settlements technical documentation" at:

http://www.caiso.com/market/Pages/Settlements/Default.aspx

## Settlements Calendar for Spring Release 2017

	CMRI	Publish Initial Statement
Calendar Day	T+1B	T+4B
13-Feb-17		
14-Feb-17		
15-Feb-17		
16-Feb-17	15-Feb	
17-Feb-17		
18-Feb-17		
19-Feb-17		
20-Feb-17	ISO H	Holiday
21-Feb-17		
22-Feb-17		15-Feb
23-Feb-17		
24-Feb-17		
25-Feb-17		
26-Feb-17		

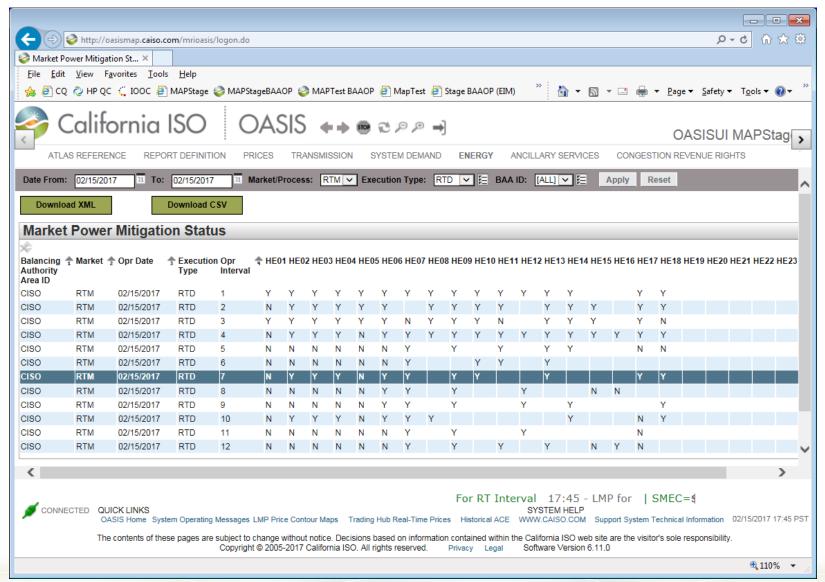
February 15, 2017 TD statement was published on time.

#### FMM and RTD Market Execution Reports

Link -

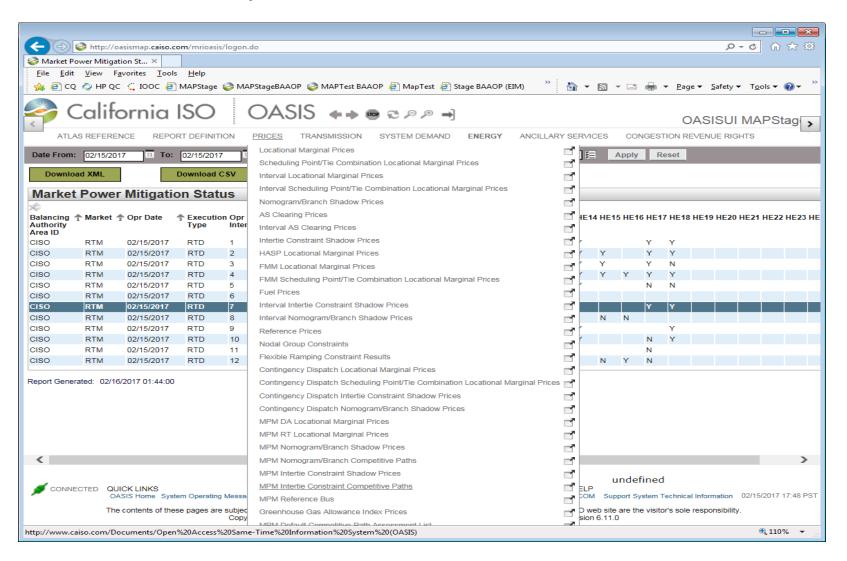
http://www.caiso.com/Pages/documentsbygroup.aspx?GroupID=DB357A9C-87C9-4BDF-8020-29C5E40A7A82

#### Mitigation Status





### MPM Not Competitive constraints on Oasis





## Not competitive constraints for 02/15/2017 HE13

HE	Interval	Not competitive Interface	Type of constraint
	13	17755 SOL5_NG	Nomogram
		PATH26_BG	
	13	1TCOR	FIM VEED
	13	1PACW	EIM XFER
	13	1 PSEI	EIM XFER
	13	2 25406_J.HINDS _230_24806_MIRAGE _230_BR_1 _1	LINE
	13	2NEVP	EIM XFER
	13	2AZPS	EIM XFER
	13	2 PSEI	EIM XFER
	13	2 PACE	EIM XFER
	13	2 PACW	EIM XFER
	13	3 25406_J.HINDS _230_24806_MIRAGE _230_BR_1 _1	LINE
		PATH26_BG	
	13	3 TCOR	
	13	3 SUMMIT_BG	TCOR
	13	3 NEVP	EIM XFER
	13	3 PSEI	EIM XFER
	13	3 PACE	EIM XFER
	13	3 PACW	EIM XFER
	13	4 25406_J.HINDS _230_24806_MIRAGE _230_BR_1 _1	LINE
	13	4 SUMMIT_BG	TCOR
	13	4NEVP	EIM XFER
	13	4 AZPS	EIM XFER
	13	4 PSEI	EIM XFER
	13	4 PACE	EIM XFER
	13	4PACW	EIM XFER
	13	47755 SOL5_NG	Nomogram
		_	O .



## Not competitive constraints for 02/15/2017 HE13

13	5 25406_J.HINDS _230_24806_MIRAGE _230_BR_1 _1	LINE
13	5 NEVP	EIM XFER
13	5 AZPS	EIM XFER
13	5 PSEI	EIM XFER
13	5 PACE	EIM XFER
13	5 PACW	EIM XFER
13	6 25406_J.HINDS _230_24806_MIRAGE _230_BR_1 _1	LINE
13	6 NEVP	EIM XFER
13	6 AZPS	EIM XFER
13	6 PSEI	EIM XFER
13	6 PACE	EIM XFER
13	6 PACW	EIM XFER
13	7 25406_J.HINDS _230_24806_MIRAGE _230_BR_1 _1	LINE
13	7 NEVP	EIM XFER
13	7 AZPS	EIM XFER
13	7 PSEI	EIM XFER
13	7 PACE	EIM XFER
13	7 PACW	EIM XFER
13	12 NEVP	EIM XFER
13	12 AZPS	EIM XFER
13	12 PSEI	EIM XFER
13	12 PACE	EIM XFER
13	12 PACW	EIM XFER



### Key points

- Input bid from corresponding RTPD is used in RTD LMPM. It can be market bid, or mitigated in RTPD bid.
- RTPD mitigated bid can be mitigated farther in RTD.
- RTD LMPM evaluates second interval. If bids are mitigated, they will be used for binding interval of next RTD.
- Mitigated bids will be used within quarter of the hour (15 min interval corresponding to RTPD interval).
   Corresponding RTPD input bids used at the beginning of every quarter.
- EIM bids will be mitigated if EIM MCP is higher than CAISO MCP.

## ISO System Access Documentation

 http://www.caiso.com/Documents/SystemAccessInformat ion\_MarketParticipants.pdf

### ISO Market Simulation Support

- Hours 09:00 18:00, PPT (Monday through Friday)
- ISO's 24X7 Help Desk (916) 351-2309 (Connectivity GUI or API)
- Email <u>MarketSim@caiso.com</u>

### Market Simulation Issue Management

- Submit all issues to the ISO CIDI case management system
- CIDI tickets will need to have
  - 'Functional Environment' = "Market Simulation Spring 2017"
  - Or 'Functional Environment' = "Independent Market Simulation 2017"

to be reviewed by ISO SME's