



California ISO

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# **Market Simulation Plan Fall 2018 Release**

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**Initiatives - Commitment Cost Enhancements Phase 3,  
ESDER Phase 2, Settlements Performance  
Improvements, Generator Contingency and RAS  
Modeling, CRR Auction Efficiency – 1A, EIM  
Enhancements 2018, Green House Gas Enhancements  
for EIM**

**Version: 2.2**

**October 11, 2018**

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Location of Document – [\(link\)](#)

## Revision History

Date	Version	Description	Author
7/24/18	Draft	Initial draft	Adam Wohlsen, Trang Deluca
8/2/18	1.1	Section 1.3, 2.1, and 2.3 updated with new dates to reflect two groups of market simulations. Section 3.2 Release Web Services updated with new links.	Adam Wohlsen
8/8/18	1.2	Section 1.3 and 2.1 have been updated to reflect the extension of the Structured Simulation end date for CCE3 to 10/5. Section 3.7 has been updated with a new Settlements Calendar.	Adam Wohlsen
8/17/18	1.3	Section 1.3, 2.1, and 2.3 have been updated to reflect the extension of the Structured Simulation end date for Group 1 projects to 10/5. Section 3.7 has been updated with a new Settlements Calendar.	Adam Wohlsen
8/20/18	1.4	Section 3.2 Release Web Service Changes updated with CMRI Tech Spec link.	Adam Wohlsen
8/22/18	1.5	Sections 2.1 and 2.3 have been updated with Wednesday/Thursday settlement TDs.	Adam Wohlsen
8/30/18	1.6	Section 2.1 Commitment Cost Enhancements Phase 3, EIM Enhancements 2018, and Green House Gas Enhancements for EIM all have revised end dates.	Adam Wohlsen
9/4/18	1.7	Updated Section 1.3, 2.1, 2.3, and 3.7 with new dates.	Adam Wohlsen
9/6/18	1.8	Updated Section 1.3, 2.1, and 2.3	Adam Wohlsen
9/11/18	1.9	Updated Section 3.1 with additional bidding instructions and information.	Adam Wohlsen
9/17/18	2.0	Section 2.1 and 2.3 have been updated with new dates.	Adam Wohlsen
9/24/18	2.1	Section 2.1 updated with new EIM Enhancements 2018 dates	Adam Wohlsen
10/11/18	2.2	Updated Section 3.7 (Market Simulation Settlements Calendar)	Adam Wohlsen

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# 1. Introduction

The objective of this document is to provide the information needed by market participants in order to engage in the Fall 2018 Release initiatives, thereby enabling them to smoothly transition and utilize the new features and functionality that will be available when they go into production.

## 1.1 Scope of Initiatives

ISO release planning sites for the Fall 2018 Release initiatives – ([link](#))

1. (Fall) - Commitment Cost Enhancements Phase 3 – ([link](#))
2. (Fall) – ESDER Phase 2 – ([link](#))
3. (Fall) – Settlements Performance Improvements – ([link](#))
4. (Fall) – Generator Contingency and RAS Modeling – ([link](#))
5. (Fall) – CRR Auction Efficiency – 1A – ([link](#))
6. (Fall) – EIM Enhancements 2018 – ([link](#))
7. (Fall) – Green House Gas Enhancements for EIM – ([link](#))

## 1.2 Market Simulation

The ISO conducts market simulations on a regular basis as part of its process of bringing new capabilities to its markets. This provides participants an opportunity to test their systems and procedures in advance of the market implementation. The market simulation process serves a number of purposes for both the ISO and market participants. It also facilitates an effective market operations dress rehearsal and helps expedite a smooth production launch. The benefits of market simulation may include but are not limited to:

- Allowing for system or procedural problem identification and mitigation before the market is operationally or financially binding.
- Enabling market participants to observe the behavior of ISO systems and markets in a simulated production environment, particularly in regards to new functions and features introduced through the addition of the modifications included in the Fall 2018 Release initiatives.
- Establishing confidence in the operational processes and systems associated with the new market functionality implementation.
- Providing a hands-on environment to allow participants to interact with new and unique features and functionality.
- Providing an environment where market participants can scrutinize and tailor their own tools, applications, and business practices to participate in new market functionality.

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- Providing a means of capturing additional market participant input and feedback regarding the implementation of the new market features and functionality, beyond what might have been received in the stakeholder process.
- Providing market participants the tools to help determine:
  - Proper exchange of market related data and validation of new timelines.
  - Common understanding of data submittal requirements and timelines.
  - Familiarity with market rules and timelines.
- An opportunity to verify the ISO Bid-to-bill process in a pre-production environment that includes simulated market and operational data inputs. Allowing the market participants to verify systems, process and procedures which may need modifying due to the functional changes tied to the release.

### 1.3 Schedule Summary

The Commitment Cost Enhancements Phase 3 market simulation will begin (9/25) and end on trade date (10/12). The ESDER Phase 2 market simulation will begin (9/5) and end on trade date (10/12). The Settlements Performance Improvements market simulation will start trade date (9/5) and end (10/12). The Generator Contingency and RAS Modeling market simulation will start trade date (9/26) and end (10/12). The CRR Auction Efficiency – 1A market simulation will start trade date (9/26) and end (10/12). The EIM Enhancements 2018 market simulation will start trade date (9/26) and end (10/12). The Green House Gas Enhancements for EIM market simulation will start trade date (9/18) and end (10/12). ISO will continue to have MAP Stage available for market participants to support regression testing if necessary.

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## 2. Market Simulation Approach

### 2.1 High Level Overview

The timeline for the Fall 2018 Release initiatives market simulations is identified below. Critical pre-simulation activities are identified in section 2.2 of this document.

<b>Fall 2018 Release Initiatives</b>	<b>Start Date</b>	<b>Start Date (Trade Date)</b>	<b>End Date</b>	<b>Structured Simulation Start (Trade Date)</b>	<b>Expected Participation</b>
<b>Fall 2018 Release Market Simulation</b>	8/20	8/20	10/12	9/5	
<b>Commitment Cost Enhancements Phase 3</b>	8/20	8/20	10/12	9/25	ISO Market Participants EIM Market Participants
<b>ESDER Phase 2</b>	8/20	8/20	10/12	9/5	ISO Market Participants EIM Market Participants
<b>Settlements Performance Improvements</b>	8/20	8/20	10/12	9/5	ISO Market Participants EIM Market Participants
<b>Generator Contingency and RAS Modeling</b>	9/20	9/20	10/12	9/26	ISO Market Participants EIM Market Participants
<b>CRR Auction Efficiency – 1A</b>	9/20	9/20	10/12	9/26	ISO Market Participants
<b>EIM Enhancements 2018</b>	9/24	9/24	10/12	9/26	EIM Market Participants
<b>Green House Gas Enhancements for EIM</b>	9/17	9/17	10/12	9/18	EIM Market Participants

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## 2.2 Pre-Simulation Activities

The Fall 2018 Release initiatives market simulations will be conducted in the MAP Stage environment. Participants will need to obtain access to this environment if they do not already have access. The ISO envisions participants may wish to access Master File (MF), Market Participant Portal (MPP), Outage Management System (WebOMS), Scheduling Infrastructure and Business Rules (SIBR), CAISO Market Results Interface (CMRI), Automated Dispatch System (ADS), and Market Results Interface Settlements (MRIS). For those who do not already have access to the MAP Stage systems, access can be requested by completing an Application Access Request Form (AARF) or modifying existing certificates through the Access Identity Management (AIM) application. Information regarding the completion of AIM and AARF forms can be found on the ISO portal under application access request forms and application installation instructions heading.

Information pertaining to accessing the externally facing ISO environments is detailed in the System Access Information (SAI) for market participants document located on the ISO public site in the “Application access”.

Systems Access Information Document – ([link](#))

## 2.3 Pre-Simulation and Simulation Activities Calendar

Activity	Description	Timeframe
MAP Stage Maintenance Group 1	MAP Stage maintenance for market simulation preparation for the following projects: Commitment Cost Enhancements Phase 3, ESDER Phase 2, and Settlements Performance Improvements.	8/6 – 9/12
MAP Stage Maintenance Group 2	MAP Stage maintenance for market simulation preparation for the following projects: Generator Contingency and RAS Modeling, CRR Auction Efficiency – 1A, EIM Enhancements 2018, and Green House Gas Enhancements for EIM.	9/10 - 9/17
Fall 2018 Releases Market Simulation Kick-Off Teleconference	ISO to conduct a teleconference to provide MPs with a Fall 2018 Releases market simulation briefing.	8/16
Fall 2018 Release Simulation Begins for Group 1	Fall 2018 Releases market simulation in the MAP Stage environment for the following projects: Commitment Cost	8/20

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Activity	Description	Timeframe
	Enhancements Phase 3, ESDER Phase 2, and Settlements Performance Improvements.	
Fall 2018 Release Simulation Begins for Group 2	Fall 2018 Releases market simulation in the MAP Stage environment for the following projects: Generator Contingency and RAS Modeling, CRR Auction Efficiency – 1A, EIM Enhancements 2018, and Green House Gas Enhancements for EIM.	9/20 *9/17 for Green House Gas Enhancements for EIM
Fall 2018 Connectivity Testing for Group 1	MAP Stage open for interface access testing for the following projects: Commitment Cost Enhancements Phase 3, ESDER Phase 2, and Settlements Performance Improvements.	8/20 – 9/25
Fall 2018 Connectivity Testing for Group 2	MAP Stage open for interface access testing for the following projects: Generator Contingency and RAS Modeling, CRR Auction Efficiency – 1A, EIM Enhancements 2018, and Green House Gas Enhancements for EIM.	9/20 – 9/26
Fall 2018 Structured Scenarios for Group 1	Fall 2018 Structured Scenarios for the following projects: Commitment Cost Enhancements Phase 3, ESDER Phase 2, and Settlements Performance Improvements are executed.	9/5 -10/12 *Note: 9/25 - 10/12 for Commitment Cost Enhancements Phase 3
Fall 2018 Structured Scenarios for Group 2	Fall 2018 Structured Scenarios for the following projects: Generator Contingency and RAS Modeling, CRR Auction Efficiency – 1A, EIM Enhancements 2018, and Green House Gas Enhancements for EIM are executed.	9/26 – 10/12 *Note: 9/18 – 10/12 for Green House Gas Enhancements for EIM

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## 3. General Information

### 3.1 Participant Observation and Inputs

During the Fall 2018 Release initiatives market simulations, participants will be able to observe market results in the same applications that are available in Production: OASIS, CMRI, ADS, etc.

ISO will seed bids and base schedules on your behalf in MAP Stage, participants are encouraged to input data into the ISO Bid-to-bill using all systems available in Production: MRI-S, SIBR/BSAP, ADS and OMS etc., for a more realistic simulation.

Day Ahead Market (DAM) bids are submitted for T+4

- Example: on 9/10 bids are submitted for 9/14

Participants wishing to check and or submit bids for T+1 – T+4) can do so after 7am on T.

- Example T=9/10 - DA bids can be submitted for 9/11, 9/12, 9/13 and if after 7am for 9/14
- In the example no seeded bids will over-write submitted bids for T+1, T+2, T+3. For T+4 if the submitted bids come in after 7am they will not be over-written by seeded bids.

Real Time Market (RTM) bids are submitted for T+1 at 11:00am

- Example: on 9/10 static bids are submitted at 11:00am for 9/11
- Participants wishing to check and or submit bid for T+1 can do so after 12:00pm (noon), no seeded data will over-write submitted bids.

SIBR RTM functionality for validating submitted bids or generating submitted bid based on DA market results will still apply, typically Map Stage market results are not published until after 12pm.

All RTM bids are revalidated at 22:10 for the next day based on latest commitment cost data received.

Bids must be submitted or verified by participants wanting to validate functionality in SIBR or downstream applications with regard to project expectations.

### 3.2 Release Web Service Changes

ISO has provided all the necessary technical specifications for the Web Service changes in scope for Fall 2018 Release -

Master File Tech Specs – ([link](#))

CMRI Tech Specs – ([link](#))

OASIS Tech Specs – ([link](#))

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SIBR Tech Specs – ([link](#))  
DRRS Tech Specs – ([link](#))

Resource Data Template (RDT) submission and or modifications for the Fall 2018 Release initiatives will take 10 business days to process. Prior to the start of simulation all modified RDT's for the Fall 2018 Release should be emailed to [RDT@caiso.com](mailto:RDT@caiso.com) please also Cc [MarketSim@caiso.com](mailto:MarketSim@caiso.com). Once simulation begins RDT's should be submitted to the MAP Stage Master File with an expected turnaround time of 10 business day, similar to Production.

ISO will be settling unstructured scenario trade dates for the Fall 2018 Release simulations.

ISO will be offering Settlements statements during the Fall 2018 Release market simulation. Similar to Production the ISO will be using estimated Meter data with our initial statements and MP submitted meter data where applicable, for the Re-calc statements.

### 3.3 Known Issue List

ISO will create and publish a known issues list and post in on the release planning site.

### 3.4 Structured Scenarios

For initiatives not listed, there will be no structured scenarios executed –

1. Commitment Costs Enhancements Phase 3 ([link](#))
2. ESDER Phase 2 ([link](#))
3. Settlements Performance Improvements ([link](#))
4. Generator Contingency and RAS Modeling ([link](#))
5. CRR Auction Efficiency – 1A ([link](#))
6. EIM Enhancements 2018 ([link](#))
7. Green House Gas Enhancements for EIM ([link](#))

### 3.5 ISO's Approach

Unstructured Simulation –

If a MP would like to see specific market conditions for their resource please contact ISO at [MarketSim@caiso.com](mailto:MarketSim@caiso.com) preferably TD-1 prior to the unstructured TD's DAM or RT market run.

Regression Simulation –

If a MP would like to see specific market conditions for their resource please contact ISO at [MarketSim@caiso.com](mailto:MarketSim@caiso.com) preferably TD-1 prior to the regression TD's DAM or RT market run.

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### 3.6 Configuration Guides and Payment Calendars

ISO Settlements Calendar and Configuration guides Fall 2018 Release -

- Draft Settlements Configuration Guides – (link TBD)

### 3.7 Settlements Calendars –

Fall 2018 Calendar –

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
20-Aug-18					
21-Aug-18					
22-Aug-18	21-Aug				
23-Aug-18					
24-Aug-18					
25-Aug-18					
26-Aug-18					
27-Aug-18		21-Aug			
28-Aug-18					
29-Aug-18	28-Aug				
30-Aug-18					
31-Aug-18					
01-Sep-18					
02-Sep-18					
03-Sep-18	<b>ISO Holiday</b>				
04-Sep-18		28-Aug	28-Aug		
05-Sep-18		21-Aug - 28-Aug			21-Aug I , 28-Aug I, 21-Aug - 28-Aug I
06-Sep-18	5-Sep				
07-Sep-18	6-Sep				

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08-Sep-18					
09-Sep-18					
10-Sep-18				28-Aug	
11-Sep-18		5-Sep	5-Sep		
12-Sep-18		6-Sep	6-Sep		
13-Sep-18	12-Sep				
14-Sep-18	13-Sep				
15-Sep-18					
16-Sep-18					
17-Sep-18				5-Sep	
18-Sep-18		12-Sep	12-Sep	6-Sep	
19-Sep-18		13-Sep	13-Sep		
20-Sep-18	19-Sep	5-Sep - 13-Sep			5-Sep I, 6 Sep I, 12-Sep I, 13 Sep I, 5-Sep - 13 Sep I
21-Sep-18	20-Sep				
22-Sep-18					
23-Sep-18					
24-Sep-18				12-Sep	
25-Sep-18		19-Sep	19-Sep	13-Sep	
26-Sep-18		20-Sep	20-Sep	5-Sep - 13-Sep	
27-Sep-18	26-Sep				5-Sep R, 6 Sep R, 12-Sep R, 13 Sep R, 5-Sep - 13 Sep R
28-Sep-18	27-Sep				
29-Sep-18					
30-Sep-18					
01-Oct-18				19-Sep	
02-Oct-18		26-Sep	26-Sep	20-Sep	

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03-Oct-18		27-Sep	27-Sep		
04-Oct-18					19-Sep I, 20 Sep I, 26-Sep I, 27 Sep I, 19-Sep - 27 Sep I
	3-Oct	19-Sep - 27-Sep			
05-Oct-18	4-Oct				
06-Oct-18					
07-Oct-18					
08-Oct-18				26-Sep	
09-Oct-18		3-Oct	3-Oct	27-Sep	
10-Oct-18		4-Oct	4-Oct	19-Sep - 27-Sep	
11-Oct-18					19-Sep R, 20 Sep R, 26-Sep R, 27 Sep R, 19-Sep - 27 Sep R
	10-Oct	3-Oct - 4-Oct			
12-Oct-18	11-Oct				
13-Oct-18					
14-Oct-18					
15-Oct-18				3-Oct	
16-Oct-18		10-Oct	10-Oct	4-Oct	
17-Oct-18		11-Oct	11-Oct	3-Oct - 4-Oct	
18-Oct-18	17-Oct				
19-Oct-18					
20-Oct-18					
21-Oct-18					
22-Oct-18				10-Oct	
23-Oct-18		17-Oct	17-Oct	11-Oct	
24-Oct-18					10-Oct I, 11-Oct I, 17-Oct I, 10-Oct - 17-Oct I
		10-Oct - 17-Oct			
25-Oct-18	24-Oct				
26-Oct-18					

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27-Oct-18					
28-Oct-18					
29-Oct-18				17-Oct	
30-Oct-18		24-Oct		10-Oct - 17-Oct	10-Oct R, 11-Oct R, 17-Oct R, 10-Oct - 17-Oct R
31-Oct-18					
01-Nov-18	31-Oct				
02-Nov-18					
03-Nov-18					
04-Nov-18					
05-Nov-18					
06-Nov-18		31-Oct			
07-Nov-18		24-Oct - 31-Oct			24-Oct I, 31-Oct I, 24-Oct - 31-Oct I
08-Nov-18					
09-Nov-18					
10-Nov-18					
11-Nov-18					

## 4. Market Simulation Support

### 4.1 Routine Functions

All normal support processes should be followed for support functions that are not specific to the market simulation. These include system connectivity issues, system availability issues, user account and permissions issues, etc. The ISO Help Desk can be reached 24x7, 365 days a year @ (916) 351-2309.

### 4.2 Market Simulation-Specific Support

The ISO will operate a Market Simulation Support Center throughout the market simulation. This support center is focused on providing support for market simulation specific issues. Hours of operation of the Market Simulation Support Center are 09:00 – 18:00 PPT, Monday through Friday.

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Issues will be tracked through the ISO’s Case Management System, CIDI. Simple questions that can be answered in a single call can be asked without opening a CIDI case, but if the issue cannot be resolved on the call, then participants will need to open a CIDI case. Using the “Functional Environment” field please identify the CIDI case as a “Market Simulation Fall 2018” simulation related question and not a “Production” question.

### 4.3 Market Simulation Communication

Dial in numbers and call schedules to be posted on the ISO Calendar – [\(link\)](#)

### 4.4 Market Simulation Environment Maintenance

Fall 2018 Release market simulation maintenance will take place Monday morning through Tuesday morning as the weekly maintenance window.

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## 5. Market Simulation Trainings

Please find information regarding Fall 2018 Release market simulation training offerings at the following locations -

- Training calendar – [\(link\)](#)
- ISO training contact – [CustomerTraining@caiso.com](mailto:CustomerTraining@caiso.com)

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## 6. Market Simulation Execution and Exceptions

MAP Stage has been setup with specific application characteristics and data flows to foster successful simulation, please note these changes are made to facilitate a simulation and will not be implemented in Production –

The ISO will upload a previous day’s production based bid set for the Day Ahead Markets (DAM) run by 10:00 PPT daily.

Market participants can overwrite these bids between 10:00 PPT and 11:00 PPT when the DAM closes.

DAM will close @ 11:00 PPT and the results will be published by 14:00 PPT daily unless it is a Structured Scenario day, it may take ISO longer to publish DAM due to Scenario setup and verification.

Real Time (RT) template bids will be built from DAM awards as the standard process, ISO will seed RT bids and base schedules for EIM entities.

RT bid markets for a specific Trade Date (TD) open automatically @ 11:00 PPT TD-1.

Market participants are encouraged to bid and base schedule in the Real Time Markets (RTM) to foster a more realistic simulation, the only exceptions are during structured scenario executions were identified.

Market participants will need to register for a tagging test bed user identification if they would like to simulate E-Tagging, if no E-Tag is submitted ISO will “auto tag” on your behalf, limit one registration per SCID.

ISO has activated auto approval for all OMS submissions and changes in MAP Stage.

Please note the timeframes for each Settlements statement publication period are different. Settlements timelines are covered in section 3.5 above.

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## 7. Documentation Links

Fall 2018 Release Initiatives Release Planning Site – [\(link\)](#)

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## 8. ISO Market Simulation Contact

Please contact [MarketSim@caiso.com](mailto:MarketSim@caiso.com) if you have any questions or concerns regarding this plan and its content.