

Market Simulation – Fall 2021 Release

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Recordings

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Agenda

- Fall 2021 Release MAP Stage Availability
- Fall 2021 Release Market Simulation Initiatives & Timelines
- Initiatives
 - Real-time settlement review phase 2
 - Energy storage and distributed energy resources phase 4 –implementation
 - Hybrid resources phase 2A
 - Intertie shadow pricing resolution
 - Western EIM base schedule submission deadline phase 1
 - Short-long start definitions
- Fall 2021 System Interface Changes
- Next Steps



Fall 2021 Release MAP Stage Availability

- Refer to MAP Stage portal https://portalmap.caiso.com for system availability information
- Current MAP Stage Scheduled Maintenance
 - None
- Upcoming MAP Stage Scheduled Maintenance
 - OASIS 9/10- Brief Interruption
- MAP Stage Weekly Maintenance Window
 - Friday



Fall 2021 Release Market Simulation Initiatives & Timelines

Fall 2021 Release Initiatives	Start Date	Start Date (Trade Date)	End Date	Structured Simulation Start (Trade Date)
Fall 2021 Release Market Simulation	08/30/21	09/07/21	10/01/21	09/07/21
Real-time settlement review phase 2		09/07		09/09 & 9/21
Energy storage and distributed energy resources phase 4 –implementation		09/21		09/21
Hybrid resources phase 2A		9/15		NA
Intertie shadow pricing resolution		9/21		NA
Western EIM base schedule submission deadline phase 1				Complete (4/15-4/23)
Short-long start definitions		9/15		NA

Market Simulation Plan:

http://www.caiso.com/Documents/MarketSimulationPlan-Fall2021Release.pdf



Market Simulation Initiatives

- Timeline : September 07 October 01
- Real-time settlement review phase 2
 - Structured : September 09 and September 21
 - Structured Scenarios document http://www.caiso.com/Documents/MarketSimulationStructuredScenarios-RealTimeSettlementReview.pdf
 - Business Requirements Specification http://www.caiso.com/Documents/BusinessRequirementsSpecification-Real-TimeSettlementReview.pdf
- Energy storage and distributed energy resources phase 4 –implementation
 - Structured : September 21
 - Business Requirements Specification http://www.caiso.com/Documents/BusinessRequirementsSpecification-EnergyStorageandDistributedEnergyResourcesPhase4.pdf
 - Structured Scenarios document —
 http://www.caiso.com/Documents/MarketSimulationStructuredScenarios-EnergyStorageandDistributedEnergyResourcesPhase4.pdf



Market Simulation Initiatives

- Timeline : September 07 October 01
- Hybrid resources phase 2A
 - Business Requirements Specification -http://www.caiso.com/Documents/BusinessRequirementsSpecifications-HybridResourcesPhase2.pdf
- Intertie shadow pricing resolution
 - Business Requirements Specification -http://www.caiso.com/Documents/BusinessRequirementsSpecification-IntertieShadowPricingResolution.pdf
- Western EIM base schedule submission deadline phase 1
 - Business Requirements Specification http://www.caiso.com/Documents/BusinessRequirementsSpecification-BaseScheduleSubmissionDeadline.pdf
- Short-long start definitions
 - Business Requirements Specification -http://www.caiso.com/Documents/BusinessRequirementsSpecificationv11-Short-LongStartDefinitions.pdf



2021 - System Interface Changes

MRI-S				
Project	API Service Name & Major Version, Artifacts	MAP-Stage	Production	Technical Specifications
OSI 2021	Add support for new retrieve requestType: MONITORING_DATA RetrieveMeterData_STLMTv1_AP RetrieveMeterData_STLMTv1_DocAttach_AP percentResidential is returned (for BASE & CBL only) Fault code 1008 details changed to: "Valid values are 5, 15 or 60 for submission and 5, 10, 15 or 60 for meter data retrieve request or 60 for monitoring data retrieve request	✓ 8/30 Thru 9/17	9/22/21	✓ v2.7; 8/18/21

MF				
Project	API Service Name & Major Version, Artifacts	MAP-Stage	Production	Technical Specifications
Variable Operations & Maintenance	RetrieveGeneratorRDT_MFRDv5_AP; 20211001 RetrieveGeneratorRDT_MFRDv5_DocAttach_AP; 20211001 SubmitGeneratorRDT_MFRDv5_AP; 20211001 SubmitGeneratorRDT_MFRDv5_DocAttach_AP; 20211001 Added the following Resource attributes to GRDT: ML_ADDER SU_ADDER ML/SU_ADDER_TYPE Added the following attributes to Configuration level for GRDT: ML_ADDER SU_ADDER ML/SU_ADDER ML/SU_ADDER ML/SU_ADDER_TYPE	√ 8/30/21	1/1/22 – Activation Page 8	√ 8.0.0; 5/27/21

https://developer.caiso.com



Fall 2021 - System Interface Changes

Il 2021 Release				
Project	System	API Service Name & Major Version, Artifacts	Technical Specifications	MAP-Stage
		RetrieveGeneratorRDT_MFRDv5_AP; 20211001		
		RetrieveGeneratorRDT_MFRDv5_DocAttach_AP; 20211001		
		SubmitGeneratorRDT_MFRDv5_AP; 20211001		
		SubmitGeneratorRDT_MFRDv5_DocAttach_AP; 20211001		
	MF		√ 5/27/21	√ 8/30/21
		Added the following Resource attributes to GRDT:		
		STORAGE_VARIABLE_COST		
ESDER4		MAX_DAILY_RUN_TIME		
_		STORAGE_RANK_LMPM		
_	SIBR	SubmitRawBidSet_v5	✓ 8/3/21	✓ 9/1/21
_	SIBR	RetrieveCleanBidSet_v5	✓ 8/3/21	✓ 9/1/21
	SIBR	RetrieveCurrentBidResults_v5	✓ 8/3/21	√ 9/1/21
L	CMRI	Update to Default Energy Bid Curves with new Default Bid Type "Storage"	✓ v5.0.0; 6/4/21	
	OASIS	Added new service version for Public bids to introduce	✓ v7.0.0; 6/4/21	
	J. 1010	new elements.	77.0.0, 0, 1,21	
		RetrieveGeneratorRDT_MFRDv5_AP; 20211001		
		RetrieveGeneratorRDT_MFRDv5_DocAttach_AP; 20211001		
		SubmitGeneratorRDT_MFRDv5_AP; 20211001		
	2 MF	SubmitGeneratorRDT_MFRDv5_DocAttach_AP; 20211001		
			(- (-)	
Hybrid Resources P2		Added the following Resource attributes to GRDT:	✓ 5/27/21	√ 8/30/21
		COMPONENT_ID		
		CO_LOCATED		
		FUEL_TYPE (Added "HYBD" enum)		
		Added Hybrid Components section in the elements table for GRDT		
		Added new service version for Intertie Constraint Shadow		
		Prices, Interval Intertie Constraint Shadow Prices,		
		Contingency Dispatch Intertie Constraint Shadow Prices		
		and MPM Intertie Constraint Shadow Prices reports to		
		introduce new element.		
		Added as a series for help as a few and here are		
		Added new service version for below services as there are		
tortio Chadour Drisina Danalutina	OACIC	impacts to Group services due to Intertie Constraint	✓ v7.0.0; 6/4/21	
tertie Shadow Pricing Resolution	OASIS	Shadow Prices & MPM Intertie Constraint Shadow Prices		
		services. However, there are no element changes to the		
		artifacts.		
		- Locational Marginal Prices		
		- AS Clearing Prices		
		- Nomogram/Branch Shadow Prices		
		- MPM Intertie Constraint Competitive Paths		
		- MPM Nomogram/Branch Shadow Prices		
California IS	_	- MPM Nomogram/Branch Competitive Paths COPYRIGHT © 2016 by California ISO. All Rights Reserve		

Next Steps

The next teleconference is scheduled on Sept 09 at 2 PM



Reference Slides



ISO Market Simulation Support

- Hours: Monday thru Friday 0900-1800 PDT
- ISO's 24x7 Service Desk: (916) 351-2309 (Connectivity UI or API)
- Email: <u>MarketSim@caiso.com</u>



Fall 2021 Release Communication Plan

Schedule

Monday	Tuesday	Thursday
August 30	September 7	August 26
September 13,20,27		September 2,9,16,23,30

Connection Information

- Web Conference Information
 - Web Address: https://caiso.webex.com/meet/MarketSim
 - Meeting Number: 962 067 710
 - Audio connection instructions will be available after connecting to the web conference. When
 prompted, select "Call me" and enter the phone number you will use during the call. You will be called
 by the conference shortly.

Conference Call Information

- Dial-in Number:
 - 1-844-517-1271 (Toll Free)
 - **1-682-268-6591**
- Access Code: 962 067 710



Fall 2021 Release MAP Stage Connectivity Testing

Timeline : Aug 30 – Sept 06



Fall 2021 Release - Market Simulation Overview

Wk	Date	ISO	Market Participants
1	8/30-9/06	Mkt Sim Readiness Testing	Connectivity
2	9/07-10/01		Structured Scenarios
3	9/08-10/01		Unstructured Simulation

Calendar Day	Day	CMRI T+1B	Submit Meter Data by T+2B 10:00 for Initial	Publish Initial Statement T+58	Submit Meter Data by T+5B 18:00 for Recalc	Publish Recalc Statement T+8B	Publish Market Invoice
			T+9B	T+9B	T+70B	T+70B	
30-Aug-21	Monday						
31-Aug-21	Tuesday						
01-Sep-21	Wednesday	31-Aug					
02-Sep-21	Thursday		31-Aug				
03-Sep-21	Friday	2-Sep					
04-Sep-21	Saturday						
05-Sep-21	Sunday						
06-Sep-21	Monday				CAISO Holiday		
07-Sep-21	Tuesday		2-Sep				
08-Sep-21	Wednesday	7-Sep		31-Aug	31-Aug		
09-Sep-21	Thursday			Monthly Initial 31-Aug			Daily Initial 31-Aug
			7-Sep				Monthly Initial 31-Aug
10-Sep-21	Friday	9-Sep		2-Sep	2-Sep		

Settlements TDs Tue/Thu
Maintenance Friday
Market Simulation Plan
Market Simulation Settlements Calendar



Market Simulation Issue Management

- Submit all issues to the CIDI case management system
- CIDI tickets must have "Functional Environment" =
 "Market Simulation Fall 2021" to be reviewed by ISO
 SMEs



Market Simulation Registration Details

MP's will need to register their request with the ISO to participate in this simulation via the MarketSim@caiso.com mailbox.

Date of registration: August 24th, 2021.

We will do our best to accommodate for late registration

