



Market Simulation Call - Fall 2020 Release

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Recordings

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Agenda

- MAP Stage Availability
- Known Issues – ADS
- ADS Replacement – Cutover Activities at a Glance
- ADS Dependencies for DOTTC, IDS Functionality
- ADS SSL Cipher Settings with ADS Cutover
- Next Steps

Fall 2020 Release MAP Stage Availability

- Refer to MAP Stage portal <https://portalmap.caiso.com> for system availability information
- Current MAP Stage Maintenance
 - None
- Upcoming MAP Stage & Stage Maintenance
 - **MAP STAGE**
 - ***Tentative 9/28-10/2: Extended Outage one week, Monday-Friday:*** CMRI UI/API for EIM Enhancements 2020 deployment - Closure, system will be unavailable
- MAP Stage Weekly Maintenance Window
 - Friday

Known Issues - ADS

#	System	Summary	Status	Estimated Fix Date
1	ADS	Continuous Alarm Change to repeat every x seconds (recommend 5 seconds)	Open	TBD
2	ADS	Column Picker should sort list of checkboxes alphabetically	Open	TBD
3	ADS	ADS Query Tool Dead Sapce on the bottom when lots of data available to show	Open	9/24
4	ADS	Column Selector availability intermittent.	Open	TBD
5	ADS	Ability to share/port over the profiles across environment	Open	TBD

ADS Replacement – Cutover Activities at a Glance

Even for use of existing ADS API URL and version (v7), you may need to whitelist the new ADS API IPs as access to the v7 will redirect to the new IPs.

	MAPSTAGE	STAGE	PRODUCTION
AR Existing URL	https://adsmap.caiso.com:447/	https://adsstage.caiso.com:447	https://ads.caiso.com:447/
AR Existing IP	2.200.60.164	2.200.60.237 2.200.60.238	2.200.60.98 2.200.60.99 2.231.58.98 2.231.58.99
AR New Additional IP	4542.17.165 4542.23.165	4542.17.51 - correction 4542.23.51 - correction	4542.16.51 4542.22.51
UI Existing URL	https://adsmap.caiso.com:447/	https://adsstage.caiso.com:447	https://ads.caiso.com:447/
UI Existing IP	2.200.60.164	2.200.60.237 2.200.60.238	2.200.60.98 2.200.60.99 2.231.58.98 2.231.58.99
UI New Additional URL	https://ads.map.caiso.com/	https://ads.stage.caiso.com/	https://ads.prod.caiso.com/
UI New Additional IP	4542.17.130 4542.23.130	4542.17.16 4542.23.16	4542.16.16 4542.22.16

ADS Dependencies for DOTTC, IDS Functionality

Reminder:

- The new DOTTC & IDS functionality will only be available in new ADS UI and ADS API v8 and will not be available in the old ADS client or ADS API v7 (ADS API v6 will be deprecated), so any participant seeking to leverage the benefit of DOTTC and IDS on the ADS will need to use the new ADS UI and/or the new ADS API v8
 - New ADS UI & ADS API v8 available 10/1/20
 - DOTTC activation 10/1/20
 - IDS activation 1/1/21
 - ADS cutover 2/1/2021
- ADS API v6 will be deprecated upon deployment of ADS API v8 and only ADS API v8 and ADS API v7 will be supported; the UI is adopt when ready
- ISO Customer Service is conducting outreach for customer cutover plans for further coordination
- ADS & DOTTC training materials also provide reflect the availability of the new features in the new ADS

Milestone Date	Activity	Production - ADS Replacement	Production - DOTTC	Production - IDS
10/1/2020	New Code Available	New ADS UI ADS API V8 Production Go-Live		
10/1/2020	Had CutOver	ADS API V6		
10/1/2020	Activation		<i>DOTTC Activation only on New ADS</i>	
1/1/2021	Activation			<i>IDS Activation only on New ADS</i>
02/01/2021	Had CutOver	Current ADS Desktop Client		

ADS SSL Cipher Settings with ADS Cutover

As discussed on 9/15 TUG:

- **New SSL cipher settings will be enforced with for ADS with ADS cutovers in MAP-Stage, Stage, and Production**
- **No change in TLS version - TLS will remain 1.2**
- **We encourage customers to transition to the new SSL cipher settings as early as possible to avoid impacts when the new settings become enforced for ADS**
- In MAP-Stage and Stage
 - *On 11/4/20 old ADS will no longer be available, and participants will need to have the new SSL cipher settings to continue using new ADS UI and any ADS API (including v7)*
- In Production
 - When new ADS is available 10/1, we will not enforce the new SSL cipher settings
 - *On 2/1/21 old ADS will no longer be available, and participants will need to have the new SSL cipher settings to continue using new ADS UI and any ADS API (including v7)*

ADS SSL Cipher Settings with ADS Cutover - continued

- Here is the list of the ciphers being accepted today, in comparison to the reduced list that will be enforced with the ADS cutover:

Currently Supported TS 1.2 Ciphers	Future Supported TS 1.2 Ciphers to be enforced 11/4 in MAP-STAGE/STAGE and 2/1 in PRODUCTION
TS_DHE_RSA_WITH_AES_128_CBC_SHA TS_DHE_RSA_WITH_AES_128_CBC_SHA256 TS_DHE_RSA_WITH_AES_128_GCM_SHA256 TS_DHE_RSA_WITH_AES_256_CBC_SHA TS_DHE_RSA_WITH_AES_256_CBC_SHA256 TS_DHE_RSA_WITH_AES_256_GCM_SHA384 TS_ECDHE_RSA_WITH_AES_128_CBC_SHA TS_ECDHE_RSA_WITH_AES_128_CBC_SHA256 TS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 TS_ECDHE_RSA_WITH_AES_256_CBC_SHA TS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 TS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 TS_RSA_WITH_AES_128_CBC_SHA TS_RSA_WITH_AES_128_CBC_SHA256 TS_RSA_WITH_AES_128_GCM_SHA256 TS_RSA_WITH_AES_256_CBC_SHA TS_RSA_WITH_AES_256_CBC_SHA256 TS_RSA_WITH_AES_256_GCM_SHA384	TS_ECDHE_RSA_WITH_AES_128_CBC_SHA256 TS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 TS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 TS_ECDHE_RSA_WITH_AES_256_GCM_SHA384

Next Steps

- The next teleconference is scheduled on Thursday, September 24 at 1400 PDT

Reference Slides

Market Simulation Issue Management

- Submit all issues to the CIDI case management system
- CIDI tickets must have “**Functional Environment**” = “**Market Simulation Fall 2020**” to be reviewed by ISO SMEs

ISO Market Simulation Support

- **Hours:** Monday thru Friday 0900-1800 PDT
- **ISO's 24x7 Service Desk:** (916) 351-2309 (Connectivity – UI or API)
 - Issues called in after hours will be worked on during the next business day
- **Email:** MarketSim@caiso.com

Fall 2020 Release Communication Plan

- **Schedule**

<i>Monday</i> July 27 August 3, 10, 17, 24, 31 September 4	<i>Tuesday</i> September 8	<i>Thursday</i> July 23, 30 August 6, 13, 20, 27 September 3, 10, 17
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- **Connection Information**

- **Web Conference Information**

- Web Address: <https://caiso.webex.com/meet/MarketSim>
 - Meeting Number: 962 67 710
 - 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: 866-52-2256
 - International Dial-in: 216-706-7052
 - Access Code 22 29 0

Structured Scenario 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 July 3, 2020.

We will do our best to accommodate for late registration

Fall 2020 Release MAP Stage Connectivity Testing

- **Timeline Phase 1:** July 27 – August 10
- **Timeline Phase 2:** July 27 – August 10

Fall 2020 Release Market Simulation Initiatives & Timelines

Fall 2020 Release Initiatives	Start Date	Start Date (Trade Date)	End Date	Structured Simulation Start (Trade Date)
Fall 2020 Release Market Simulation Phase 1	07/27/20	07/28/20	09/04/20	08/11/20
Automated Dispatch System (ADS) replacement				08/11/20 (Completed) Rerun on 8/18 per MP request - Complete
Commitment costs and default energy bid enhancements				NA
Dispatch operating target tariff tariffication				08/12/20 (Completed)
Energy storage and distributed energy resources phase 3				08/19/20 (Complete) Rerun on 9/2 - Complete
ERC Order No. 81 requested adjustments				08/12/20 (Settlement statement published)
Commitment cost enhancements tariff tariffications				NA
Fall 2020 Release Market Simulation Phase 2	07/27/20	07/28/20	09/18/20	08/25/20
Market settlement timeline transformation				08/25/20 (TD 8/25 under Settlements complete)
Excess behind the meter production				08/25/20 (TD 8/25 under Settlements complete)

Market Simulation Plan:

<http://www.caiso.com/Documents/MarketSimulationPlan-Fall2020Release.pdf>

Known Issues - DRRS

#	System	Summary	Status	Estimated Fix Date
1	DRRS	<p>U: Advanced filter input controls do not automatically close as the user is clicking from one control to another, causing the controls (date picker, text fields, dropdown lists, etc) to stack on top of each other.</p> <p><i>User must click on the control to make it disappear.</i></p>	Open	TBD
2	DRRS	<p>U: The application disconnect/connect icon and its respective display text are not in-sync:</p> <ul style="list-style-type: none"> • When the application is disconnected caused by a timeout, the text displays as "Connected" where it should display as "Disconnected" . • When the application reconnects, the icon does not display as connected <p><i>While there is an issue with the visual feedback, the application functionality is not impacted.</i></p>	Open	TBD

Automated Dispatch System (ADS) replacement

- **Timeline:** July 27 – September 04
- **Structured:** August 11 (Completed)
Rerun on 8/18 per Market Participant Request - Complete

Structured Scenarios document -

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

Training -

- <http://www.caiso.com/Documents/AutomatedDispatchSystemReplacementPart1.pdf>
- <http://www.caiso.com/Documents/AutomatedDispatchSystemReplacementPart2.pdf>

ADS Replacement – Cutover Activities At a Glance

Milestone Date	Activity	MAP Sage	Sage	Production
7/27/2020	New Code Available	New ADS UI ADS API V8 Begin Market Sm	-	-
7/27/2020	Hard Cutover	ADS API V6	-	-
9/01/2020	New Code Available	-	New ADS UI ADS API V8 Begin Parallel Operations	-
9/01/2020	Hard Cutover	-	ADS API V6	-
9/04/2020	Milestone	End Market Sm	-	-
9/30/2020	Milestone	-	End Parallel Operations	-
10/1/2020	New Code Available	-	-	New ADS UI ADS API V8 Production Go-Live
10/1/2020	Hard Cutover	-	-	ADS API V6
11/01/2020	Hard Cutover	Current ADS Delphi Client	Current ADS Delphi Client	-
02/01/2021	Hard Cutover	-	-	Current ADS Delphi Client

ADS dependencies for DOTTC, IDS functionality - continued

- New functionality includes
 - Follow DOT Flag
 - Operating instructions
 - Un announced AS TEST
 - RTCD Commitment
 - Receive Operating instruction flag for EIRs
 - Broadcast message to EIRs operator
 - Display the HASP schedule, the scheduling coordinator accepted value, and the difference between the two

ADS Replacement – Data availability – During Parallel Operations

- During parallel operation Data for new functionalities (such as Follow DOT Flag, Operating instructions, Un announced AS TEST, RTCD Commitment) will not be available as we will stream production data to parallel environment.
- For those new functionalities data will be available in MAPStage.

Energy storage and distributed energy resources phase 3

- **Timeline:** July 27 – September 04
- **Structured:** August 19 – Complete (Rerun on 9/2- Complete)
- **Setup needed:**
 - PDR-LSR Curtailment.
 - If market participant wants to see only energy award, then, submit very cheap energy bids
 - If market participant wants to see AS award, say Spin, submit very expensive energy bids and 0\$ Spin bid
 - PDR-LSR Consumption.
 - Avoid submitting large negative energy bid. Suggested bid around \$ -1

Structured Scenarios document -

<http://www.caiso.com/Documents/ESDER3BMarketSimulationStructuredScenariosFall2020.pdf>

Training -

<http://www.caiso.com/Documents/EnergyStorage DistributedEnergyResources Phase3B.pdf>

Excess behind the meter production

- **Timeline:** July 27 – September 18
- **Structured:** August 25
- **Note:**
 - MSTT cutover TD 8/24/20 (Corresponds to Production TD 1/1/21)
 - Phase 2 (MSTT, EBTMP) Structured Scenarios - first Settling TD 8/25
 - MP needs to submit meter data by 8/28 for initial and by 9/2 for Recalc statement
 - **On 8/31, ISO terminated submitted EBTMP values from Settlements only for TD 8/25 to execute SS#1 in order to demonstrate the use of only gross load “LOAD” data for the initial statement processing**
 - EBTMP meter data was removed from Settlements only to exclude from initial statement and this submitted EBTMP meter data will be readded to Settlements for processing of the recalc statement
 - Submitted EBTMP meter data is still able to be retrieved in MRI-S
 - **Please submit EBTMP values for TD 8/25 by 9/2 for SS#2 to include in Recalc**
 - **OASIS: EBTMP report will have data for TD 8/25 when the Settlements Recalc has been processed**

Structured Scenarios document -

<http://www.caiso.com/Documents/MarketSimulationScenariosExcessBehindtheMeterProduction.pdf>

Training - <http://www.caiso.com/Documents/Presentation-Excess-Behind-Meter-Production-Training.pdf>

Market settlement timeline transformation

- **Timeline:** July 27 – September 18
- **Structured:** August 25
- **Note:**
 - MSTT cutover TD 8/24/20 (Corresponds to Production TD 1/1/21)
 - Phase 2 (MSTT, EBTMP) Structured Scenarios - first Settling TD 8/25

Structured Scenarios document -

<http://www.caiso.com/Documents/MarketSimulationScenarioMarketSettlementTimeline.pdf>

Training - <http://www.caiso.com/Documents/Presentation-MarketSettlementsTimelineTransformationTraining.pdf>

FERC Order No. 841 requested adjustments

- **Timeline:** July 27 – September 04
- **Structured:** August 12 (Settlement statement published)

Structured Scenarios document -

<http://www.caiso.com/Documents/FERC841RequestedAdjustmentsMarketSimulationStructuredScenariosFall2020.pdf>

Training -

<http://www.caiso.com/Documents/FERC841Training.pdf>

Commitment Costs and Default Energy Bid Enhancements

- **Timeline:** July 27 – September 04
- Training - <http://www.caiso.com/Documents/Presentation-CommitmentCosts-DefaultEnergyBidEnhancements.pdf>

Commitment cost enhancements tariff clarifications

- **Timeline:** July 27 – September 04

Dispatch operating target tariff clarification

- **Timeline:** July 27 – September 04
- **Structured:** August 12 (Completed)

Structured Scenarios document -

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

Training - <http://www.caiso.com/Documents/Presentation-Dispatch-Operating-Target-Clarification-Training-Jul16-2020.pdf>

Energy imbalance market enhancements 2020 - Independent 2020

- **Timeline**
 - **Phase 1:** August 31 – October 14
 - **Phase 2:** September 21 – October 14
- **Structured: N/A** market simulation will now be tested as unstructured with a CAISO issued guide for market participants

Structured Scenarios document -

<http://www.aiso.com/Documents/MarketSimulationScenariosEnergyImbalanceMarket2020Enhancements.pdf>

Energy imbalance market enhancements 2020

System	Phase 1: 8/31	Phase 2: 9/21
BAAOP	<ul style="list-style-type: none"> • Allow EIM entity override activation for the contingencies up to 15 in NA contingency list • Add visibility of other adjacent BAAs ETSR locks and reasons • Add Static ETSR transfer data to RTD Dispatch Control Display (ETSR tab). Add Static ETSR transfer data to BAAOP ETSR Detail Display (in RTD) • In RTD/RTPD Dispatch Control display, in Dispatch Instruction Review table, add columns for UP and DN remaining ramp capacity (5/15 minute respectively). In addition, include the sum of these columns at bottom of table. Example Calculation: RTD UP Ramp = $\text{MIN}(5\text{MinRampRate}, [\text{UpperLim}-\text{CurrentDispatch}])$. • Add Supplemental DOT to VER resources to Dispatch Control displays; Detail: In BAAOP RTD/RTPD Dispatch Control, add SUPP DOT column • Fix the functionality for Manual Dispatches - users should be able to utilize MSG functions, such as designating a specific configuration, and users should be able to do commitment override • EIM Entities have a notification status of market inputs, showing if BAAOP received the latest payload of critical market inputs. Example Critical data submissions: (not all inclusive) 	<ul style="list-style-type: none"> • Fix/Improve SVG One Lines. Request to be able to view SE and telemetry values for all substation flows and elements
BSAP	<ul style="list-style-type: none"> • Add Manual Dispatch information to BSAP Resource Bal Viewer. Add any applicable deviations that used in the test to BSAP BAA Bal Viewer. • For the Bid Range Capacity Test Results report, Requirement Amount Column needs to publish the true requirement, not just the INCREMENTAL/DECREMENTAL requirement 	N/A
RTM	<ul style="list-style-type: none"> • Publish the data of the MW infeasibility data and ABC Up and Down Dispatches of RTPD/RTD • Publish the effective ETSR import and export limits for the market run for RTPD and RTD • Support Pump Storage for EIM BAAs 	<ul style="list-style-type: none"> • Publish the effective load conforming for the market run for RTPD and RTD for Binding and Advisory
CMRI	<ul style="list-style-type: none"> • Display and publish, download the data of the MW infeasibility data and ABC Up and Down Dispatches of RTPD/RTD • For the Bid Range Capacity Test Results report, Requirement Amount Column needs to display and publish, download the true requirement, not just the INCREMENTAL/DECREMENTAL requirement. Only upstream has changes with regards to the data that is sends to CMRI. 	<ul style="list-style-type: none"> • Display and publish, download the data of the effective load conforming for the market run for RTPD and RTD for <ol style="list-style-type: none"> 1. CMRI Load Conforming Binding rpt 2. CMRI Load Conforming Advisory rpt

Trouble-shooting tips to access ADS

- Check your firewall settings.
- Clear the browser cache & cookies.
- Pop-up blockers on your browser may lead to issues accessing CAISO ADS.
- If you use a pop-up blocker, you must whitelist the CAISO domain (caiso.com)

Energy storage and distributed energy resources phase 3 - CIRA changes

CIRA

- PDR_LSR Consumption resources are not eligible for Resource Adequacy
- CIRA will not allow a PDR-LSR Consumption resource to submit a request for NQC

California ISO | Customer Interface for Resource Adequacy

Plans RA Validation Substitutions RAAIM Pre-Calc CSP Offers Reports Legacy Replacements

Upload Submit NQC Request Form

❗ Invalid ResourceId (Cell B3)
❗ NQC upload not allowed for PDR-LSR Consumption Resource PGCC_1_PDRPCON002 (Cell B3)
❗ Invalid ResourceId (Cell B2)
❗ NQC upload not allowed for PDR-LSR Consumption Resource PGCC_1_PDRPCON001 (Cell B2)

SCID

NQC Request Form

Master File GRDT v14 Submissions

- **Please submit GRDT v14 to MAP Stage Master File UI/API**
- [GRDT 14.0](#)
- UI: <https://portalmap.caiso.com/mf>
- API:
 - <https://wsmap.caiso.com/sst/runtime.asvc>
 - RetrieveGeneratorRDT_MFRDv5
 - RetrieveGeneratorRDT_MFRDv5_DocAttach
 - SubmitGeneratorRDT_MFRDv5
 - SubmitGeneratorRDT_MFRDv5_DocAttach

Master file	
Project	Change
ESDER3B	Add enumeration to GRDT: DR_TYPE of PDR_LSR
FERC841 RA	New GRDT attribute: Apply Wholesale Charge
BM2020	New GRDT attribute: Meter Data Interval
Other	Remove from GRDT: MN_DISP_LEVEL
CCE Tariff	New GRDT attribute: Run of River
Sow DR	New GRDT attribute: Sow DR

Settlements Calendar

Calendar Day	CMR T+1B	Submit Mer Data by T+3B 18:00 for T+9B Initial	Publish Initial Statement T+4B T+3B Initial Estimate by DRAMS. Mer Data submission	Mer Data Due T+4B Statement Submit Mer Data by T+4B 18:00 for Recalc	Publish Initial statement T+6B T+9B Initial. Include Estimation	Publish Recalc Statement T+8B RECALC1 Current MSTT)	Mer data due for T+70B statement Submit Mer Data by T+6B 18:00 for Recalc	Publish Recalc Statement T+9B T+70B Recalculation RECALC (New MSTT)	Publish Market Invoice
			INITIAL Current MSTT)	Current MSTT	INITIAL (New MSTT)	RECALC1 Current MSTT)	New MSTT	RECALC (New MSTT)	
29-Jul-20	2-Jul								
30-Jul-20	2-Jul								
03-Aug-20			2-Jul	2-Jul					
04-Aug-20			2-Jul	2-Jul					
05-Aug-20	4Aug		Monthly Initial 2-Jul - 2-Jul						Daily Initial 2-Jul, 2-Jul Monthly Initial 2-Jul - 2-Jul
06-Aug-20	5Aug								
07-Aug-20						2-Jul			
10-Aug-20			4Aug	4Aug		2-Jul			
11-Aug-20			5Aug	5Aug		Monthly Recalc 2-Jul - 2-Jul			
12-Aug-20	1-Aug		Monthly Initial 4 Aug - 5Aug						Daily Recalc 2-Jul, 2-Jul Monthly Recalc 2-Jul - 2-Jul Daily Initial 4Aug, 5Aug Monthly Initial 4Aug - 5Aug
13-Aug-20	2-Aug								
14-Aug-20						4Aug			
17-Aug-20			1-Aug	1-Aug		5Aug			
18-Aug-20			2-Aug	2-Aug		Monthly Recalc 4Aug - 5Aug			

Settlements Calendar

Calendar Day	CMR T+1B		Publish Initial Statement T+4B	Mer Data Due T+4B Statement	Publish Initial statement T+6B	Publish Recalc Statement T+8B	Mer data due for T+70B statement	Publish Recalc Statement T+9B	Publish Market Invoice
		Submit Mer Data by T+3B 18:00 for T+9B Initial	T+3B Initial. Estimate by DRAMS. Mer Data submission	Submit Mer Data by T+4B 18:00 for Recalc	T+9B Initial. Include Estimation		Submit Mer Data by T+6B 18:00 for Recalc	T+70B Recalculation	
			INITIAL (Current MSTT)	Current MSTT	INITIAL (New MSTT)	RECALC1 (Current MSTT)	New MSTT	RECALC (New MSTT)	
19-Aug-20			Monthly Initial 1-Aug - 2-Aug						Daily Recalc 4Aug, 5Aug Monthly Recalc 4Aug - 5Aug
	8-Aug								Daily Initial 1-Aug, 2-Aug Monthly Initial 1-Aug - 2-Aug
20-Aug-20	9-Aug								
21-Aug-20						1-Aug			
24-Aug-20			8-Aug	8-Aug		2-Aug			
25-Aug-20			9-Aug	9-Aug		Monthly Recalc 1-Aug - 2-Aug			
26-Aug-20	3-Aug		Monthly Initial 8-Aug - 9-Aug						Daily Recalc 1-Aug, 2-Aug Monthly Recalc 1-Aug - 2-Aug
	8-Aug								Daily Initial 8-Aug, 9-Aug Monthly Initial 8-Aug - 9-Aug
27-Aug-20	8-Aug								
28-Aug-20		3-Aug				8-Aug			
31-Aug-20		8-Aug				9-Aug			
01-Sep-20						Monthly Recalc 8-Aug - 9-Aug			
02-Sep-20	1Sep				3-Aug		3-Aug		
03-Sep-20	2Sep				8-Aug		8-Aug		

Settlements Calendar

Calendar Day	CMR T+1B		Publish Initial Statement T+4B	Mer Data Due T+4B Statement	Publish Initial statement T+6B	Publish Recalc Statement T+8B	Mer data due for T+70B statement	Publish Recalc Statement T+9B	Publish Market Invoice
		Submit Mer Data by T+3B 18:00 for T+9B Initial	T+3B Initial. Estimate by DRAMS. Mer Data submission	Submit Mer Data by T+4B 18:00 for Recalc	T+9B Initial. Include Estimation		Submit Mer Data by T+6B 18:00 for Recalc	T+70B Recalculation	
			INITIAL Current MSTT)	Current MSTT	INITIAL (New MSTT)	RECALC1 Current MSTT)	New MSTT	RECALC (New MSTT)	
02-Sep-20	1Sep				3-Aug		3-Aug		
03-Sep-20	2Sep				3-Aug		3-Aug		
04-Sep-20		1Sep			Monthly Initial 3-Aug - 3-Aug				
08-Sep-20		2Sep						3-Aug	
09-Sep-20								3-Aug	Daily Initial 3-Aug, 3-Aug Monthly Initial 3-Aug - 3-Aug Daily Recalc 3-Aug, 3-Aug Monthly Recalc 3-Aug - 3-Aug
10-Sep-20					1Sep		1Sep	Monthly Recalc 3-Aug - 3-Aug	
11-Sep-20					2Sep		2Sep		
14-Sep-20					Monthly Initial 0-Sep - 0-Sep				
16-Sep-20									Daily Initial 0-Sep, 0-Sep Monthly Initial 0-Sep - 0-Sep Daily Recalc 3-Aug, 3-Aug Monthly Recalc 3-Aug - 3-Aug
17-Sep-20								1Sep	
18-Sep-20								2Sep	
								Monthly Recalc 0-Sep - 0-Sep	Daily Recalc 0-Sep, 0-Sep Monthly Recalc 0-Sep - 0-Sep

Fall 2020 Release - System Interface Changes - CCDEBE1

SBR						
Project	Change Type	API Service Name & Major Version, Artifacts	MAP Sage	Production	Technical Specifications	
CCDEBE1	Modify	RetrieveCleanBidSet_SIBRv5_AP RetrieveCleanBidSet_SIBRv5_DocAttach_AP	✓ 10/16/19	✓ Deploy 3/26/20 Activation 10/1/20	B.2	
CCDEBE1	Modify	RetrieveCurrentBidResults_SIBRv5_AP RetrieveCurrentBidResults_SIBRv5_DocAttach_AP	✓ 10/16/19	✓ Deploy 3/26/20 Activation 10/1/20	B.2	
CCDEBE1	Modify	SubmitRawBidSet_SIBRv5_AP SubmitRawBidSet_SIBRv5_DocAttach_AP	✓ 10/16/19	✓ Deploy 3/26/20 Activation 10/1/20	B.2	

MRI						
Project	Change Type	U	API Service Name & Major Version, Artifacts	MAP Sage	Production	Technical Specifications
MPME CCDEBE1	Modify	Tab: Default Bids Existing Report: Default Energy Bid Curves	RetrieveDefaultBidCurves_CMRIv2_AP RetrieveDefaultBidCurves_CMRIv2_DocAttach_AP	MPME ✓ 9/12/19 CCDEBE1 ✓ 1/6/19	MPME ✓ 1/13/19 CCDEBE1 ✓ Deploy 3/26/20 Activation 10/1/20	39.4 Release Notes 12
CCDEBE1	Modify	Tab: Default Bids Existing Report: Default Commitment Costs	RetrieveExternalDefaultCommitmentCost_CMRIv1_AP RetrieveExternalDefaultCommitmentCost_CMRIv1_DocAttach_AP	✓ 1/11/19	✓ Deploy 3/26/20 Activation 10/1/20	39.4 Release Notes 12

<http://developer.caiso.com>

Fall 2020 Release - System Interface Changes

ADS					
Project	Change Type	Summary	Technical Specifications	MAP Sage	Production
NA	Decom	Decommission of deprecated versions	✓ \$16/20, \$1.0	7/27/20	11/1/20
ADS Replacement DTC	New	APIWebService \$ APIResponseWebService \$	✓ \$16/20, \$1.0 ✓ \$21/20, \$0.0	7/27/20	11/1/20

DRRS					
Project	Change Type	Summary	Technical Specifications	MAP Sage	Production
ESDER3B	Modify	SubmitDRLocations_DRRSv2_AP	✓ \$1/20, \$2	7/27/20	Deploy \$14/20
		SubmitDRLocations_DRRSv2_DocAttach_AP			
		SubmitDRRegistrations_DRRSv2_AP			
		SubmitDRRegistrations_DRRSv2_DocAttach_AP			
		RetrieveDRLocations_DRRSv2_AP			
		RetrieveDRRegistrations_DRRSv2_DocAttach_AP			

MRI-S					
Project	Change Type	Summary	Technical Specifications	MAP Sage	Production
BTMP	Modify	<p>For:</p> <ul style="list-style-type: none"> - MRI Meter: Submit Meter & - MRI Meter: Retrieve Meter <p>additionally include BTMP measurement type values (as negative bad)</p> <p>both Cross bad and BTMP meter data would associate with same bad Resource ID</p>	✓ \$28/20, v2.5	7/27/20	Activation 11/21

Fall 2020 Release - System Interface Changes

Master File						
Project	Change	Change Type	Summary	Technical Specifications	MAP Stage	Production
ESDER3B	Add enumeration to GRDT: DR_TYPE of DR_LSR	Modify	RetrieveGeneratorRDT_MFRDv5	✓ 6/12/20, v6.1 ✓ 5/28/20, v6.0	7/27/20	10/1/20
FERC841 RA	New GRDT attribute: Apply Wholesale Charge		RetrieveGeneratorRDT_MFRDv5_DocAttachment			
EM2020	New GRDT attribute: Meter Data Interval		SubmitGeneratorRDT_MFRDv5			
Other	Remove from GRDT: MIN_DISP_LEVEL		SubmitGeneratorRDT_MFRDv5_DocAttachment			
CE Tariff	New GRDT attribute: Run of River					
Sow DR	New GRDT attribute: Sow DR					

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Fall 2020 Release - System Interface Changes

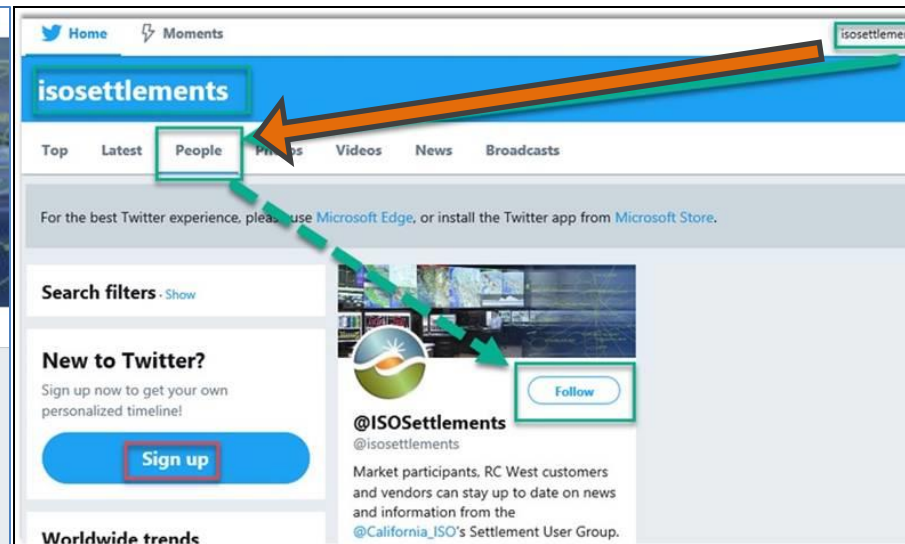
CMRI					
Project	Change Type	Summary	Technical Specifications	MAP Sage	Production
NA	Decom	Decommission of deprecated versions	✓ 5/29/20, v.9.5	7/27/20	9/1/20
EM2020	New	RetrieveEIMInfeasibility_CMRIv1_AP RetrieveEIMInfeasibility_CMRIv1_DocAttach_AP	✓ 5/29/20, v.9.5	7/27/20	10/1/20
EM2020	New	RetrieveLoadConfirming_CMRIv1_AP RetrieveLoadConfirming_CMRIv1_DocAttach_AP	✓ 5/29/20, v.9.5	7/27/20	10/1/20
EM2020	New	Available Balance Capacity	7/2/20	7/27/20	10/1/20

OASIS					
Project	Change Type	Summary	Technical Specifications	MAP Sage	Production
NA	Decom	Decommission of deprecated versions	✓ 5/29/20, v.1.13	7/27/20	9/1/20
EBTMP	New	ENE_EBTMP_PERF_DATA	✓ 6/22/20 ✓ 5/29/20, v.1.13	7/27/20	Activation 11/21

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Introducing ISO Settlements Twitter Tool for Market Sim Updates

- Market sim updates will be made available
- Note: Will not replace any existing media communications
- Please take the opportunity to follow [@ISOSettlements on Twitter](https://twitter.com/ISOSettlements) by downloading the Twitter application to **any mobile device**
- Twitter feed can be accessed on **any web browser**
- **No account required** to view the Twitter feed and posts



Updates that are tweeted

Tweets

Information

- Market Simulation MAP-STAGE Master File UI and API available for Fall 2020 Release connectivity

- <http://www.caiso.com/Pages/documentsbygroup.aspx?GroupID=25991DEB-2F25-4976-858-4F04745A59AA>

⌘ Submit updates to us: twitter.com/isosettlements.com

Submit



Recent Tweets



Follow us on Twitter  @ISO Settlements

Reminder: DRRS UI Upgrade features

- Image icons, control buttons, label fonts have a new different color scheme
- The “Apply” and “Reset” buttons appear on the far right side of the screen, as opposed to appearing after the last display input filter
- The data grid output export filename no longer contain the user certificate name
- The application window is not maximized by default, when launching the application
- The data grid columns are no longer adjustable
- [Technical User Group Presentation 6/23](#)

Reminder: DRRS UI Upgrade features

Current Production/Pre-Fall 2020 Release

California ISO | Demand Response Registration System

DRP VIEW | UDC VIEW | LSE VIEW | ADMINISTRATION

DRP VIEW Locations

LOC ID LOC Name SAN DRP [ALL] UDC [ALL] LSE [ALL] SUBLAP [ALL] Defense Active [ALL] Apply Reset

Create Copy Delete Defend Withdraw Edit End Date Register

Locations 1 - 25 of 423730

Registrations

Fall 2020 Release currently in MAP-Stage:

California ISO | Demand Response Registration System

DRP VIEW | UDC VIEW | LSE VIEW | ADMINISTRATION

DRP VIEW Locations

LOC ID LOC Name SAN DRP [ALL] UDC [ALL] LSE [ALL] SUBLAP [ALL] Defense Active [ALL] Updated Since DateTime Apply Reset

Create Copy Delete Defend Withdraw Edit End Date Register

Locations 4976 - 5000 of 147047 5000 GO

Registrations