

## Market Simulation -Fall 2022 Release

Anshuman Vaidya

Nov 14, 2022

#### Recordings

Calls and webinars are recorded for stakeholder convenience, allowing those who are unable to attend to listen to the recordings after the meetings. The recordings will be publicly available on the ISO web page for a limited time following the meetings. The recordings, and any related transcriptions, should not be reprinted without the ISO's permission.



#### Agenda

- Fall 2022 MAP Stage Availability
- Initiatives
- Known issues
- Next Steps



#### Fall 2022 MAP Stage Availability

- Refer to MAP Stage portal <u>https://portalmap.caiso.com</u> for system availability information
- Current MAP Stage Scheduled Maintenance
  - None
- Upcoming MAP Stage Scheduled Maintenance
   None



## Initiatives

## Flexible ramping product - deliverability

- **Timeline:** 10/11 11/18
- Scenarios : 10/18 and 10/20
- Scenarios document <u>https://www.caiso.com/Documents/Market-Simulation-</u> <u>Structured-Scenarios-Flexible-Ramping-Product.pdf</u>

## Hybrid resources phase 2B

- **Timeline:** 10/11 11/18
- Scenarios: 11/01 and 11/03
- Scenarios document <u>https://www.caiso.com/Documents/MarketSimulationStructuredScenarios-</u> <u>HybridResourcesP2.pdf</u>



#### **Known Issues**

- 60-min dispatchable for discrete RDRRs Enhancement (ETA -11/21)
- Pending CIDI Tickets
  - OASIS report missing data- Pending SME review
  - Hybrid resource data tickets- Pending SME review





 The next teleconference is scheduled on November 17 at 1400 PDT



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#### References



#### **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>



#### Market Simulation Issue Management

- Submit all issues to the CIDI case management system
- CIDI tickets must have "Functional Environment" = "Market Simulation Fall 2022" to be reviewed by ISO SMEs



## Fall 2022 MAP Stage Connectivity Testing

- Available for Connectivity
  - 8/22: ALFS Submit/Retrieve SCVERForecast
  - 9/16: MF UI
  - 9/16: CIRA
  - 9/19: MF API
  - 9/30: ADS (Independent)
  - 10/11: CMRI for FRP
  - 10/13: OASIS for FRP
  - 10/26: CMRI for HR2B
  - 10/27: OASIS for HR2B



#### **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 August 12, 2022.

We will do our best to accommodate for late registration



#### Hybrid Resources Phase 2B: ALFS API Access Provisions

- User Access Administrators (UAAs) are able to provision access for to these new roles:
  - Submits
    - AIM > Application: ALFSSOA > Role: SC WRITE EXTERNAL
  - Retrieves
    - AIM > Application: FDR > Role: SC READ EXTERNAL
  - References
    - <u>https://developer.caiso.com</u>
    - <u>Technical Specification</u>
    - Artifacts
      - <u>SubmitSCVERForecast ALFSv1 AP</u>
      - SubmitSCVERForecast ALFSv1 DocAttach AP
      - <u>RetrieveSCVERForecast FDRv1 AP</u>
      - <u>RetrieveSCVERForecast FDRv1 DocAttach AP</u>
    - URLs
      - <u>https://wsmap.caiso.com/sst/runtime.asvc/SubmitSCVERForecast\_ALFSv1\_AP</u>
      - <u>https://wsmap.caiso.com/sst/runtime.asvc/SubmitSCVERForecast\_ALFSv1\_DocAttach\_AP</u>
      - <u>https://wsmap.caiso.com/sst/runtime.asvc/RetrieveSCVERForecast\_FDRv1\_AP</u>
      - <u>https://wsmap.caiso.com/sst/runtime.asvc/RetrieveSCVERForecast\_FDRv1\_DocAttach\_AP</u>



#### **Central Procurement Entity**

- Timeline: 09/19 09/30
- Structured: 9/22
- Submit provisioning requests to Production 10/3

#### Scenarios Document -

https://www.caiso.com/Documents/Market-Simulation-Structured-Scenarios-Central-Procurement-Entity.pdf



#### **Central Procurement Entity Access Provisions**

- Submit provisioning requests to Production 10/3
- CPE must obtain the services of a certified Scheduling Coordinator (SC)
- SC will need to request a new SCID to represent the CPE and indicate the CPE name in the request
- The new SCID is approved to be setup in master file and a CPE ID is created and assigned for the CPE to be associated to the new SCID
- Contact <u>SCRequests@caiso.com</u> for questions



#### Hybrid Resources Phase 2B: Unstructured Scenario 1

Scenario		Unstructured guided Scenario								
Number										
	· · · · · · · · · · · · · · · · · · ·	Verify submitted hybrid resource data and component level data								
		ISO to dispatch Hybrid resources								
		EIM SCs to submit dynamic limits and real-time (RT) forecasts for hybrid resources								
	Actions									
		SCs to submit dynamic limits and real-time (RT) forecasts for hybrid resources								
	Actions									
	Expected	Verify Hybrid Resource data in Master File								
	Outcome	Verify submission of upper and lower resource limit in Market (Dynamic Limit Tool)								
	1	Verify the following in CMRI:								
1		<ul> <li>Hybrid resource award is within the dynamic limit as submitted by Market Participant</li> <li>When the LMP is higher than the hybrid resource bid and the resource has ramping capability, hybrid resource award is at the upper dynamic limit MW value, including cases when the upper dynamic limit MW value is greater than the original upper bid limit MW value.</li> <li>When the LMP is lower than the hybrid resource bid and the resource has ramping capability, hybrid resource award is at the lower dynamic limit MW value, including cases when the lower dynamic capability, hybrid resource award is at the lower dynamic limit MW value, including cases when the lower dynamic limit MW value is lower than the original lower bid limit MW value, including cases when the lower dynamic limit MW value is lower than the original lower bid limit MW value.</li> <li>Hybrid resource forecast data is published at the VER component level</li> <li>Verify utilization of ISO forecast of Hybrid Resources in MRI-S Settlements Statement</li> </ul>								
	Anticipated	701								
	Settlement									
	Outcome									
1		EIM Participants: Verify Hybrid Resources are assessed a forecast fee.								
	Settlement									
	Outcome	ISO Market Participants Only: Verify Hybrid Resources are fully exempted from RAAIM in Settlements and assessed a forecast fee.								
ę		nia ISO COPYRIGHT © 2016 by California ISO. All Rights Reserved. Page 16								

## Hybrid Resources Phase 2B: Unstructured Scenario 2

Scenario Number		Unstructured guided Scenario
	Description	Verify that VERs behind any given Sub-ACC have their "Follow DOT" flags set equal to 'Y' whenever one of their co-located resources has an AS award/AS base schedule.
	ISO Actions	ISO to normally enforce ACCs and dispatch their resources as per the regular EIM clearing process.
	EIM Market Participant Actions	EIM SCs to submit AS base schedules for non-VER resources behind Sub-ACCs with VERs.
	ISO Market Participant Actions	SCs to submit economical AS bids in the DAM and RTM for non-VER resources behind Sub-ACCs with VERs.
	Expected Outcome	• Verify non-VER resources behind Sub-ACCs with VERs have AS awards/AS base schedules going into RTD.
		• Verify in Market and ADS that VERs behind a Sub-ACC whose co-located resources have an AS award/AS base schedule have their "Follow DOT" flags set equal to 'Y'.
2		• Verify that the aforementioned logic only applies on a per "Sub-ACC" basis, i.e., if a collocated resource in Sub-ACC1 has an AS award/base schedule, then VERs in Sub-ACC2 do not necessarily have their "Follow DOT" flags set equal to 'Y'.
	Anticipated Settlement Outcome	N/A
	Expected Settlement Outcome	N/A



## Fall 2022 Communication Plan

#### Schedule

Monday	Tuesday	Thursday
Aug 22, 29		Aug 18, 25
Sep 12, 19, 26	Sep 26	Sep 01, 08, 15, 22,
		29

#### Connection Information

- Web Conference Information
  - Web Address: <u>https://caiso.webex.com/meet/MarketSim</u>
  - 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



#### OSI Enhancements – 2022 (ADS)

• 71836: Ability to "Update/Override existing configuration".

Private Display	Profiles									
🖉 📚 🖌 🚝	◀ ◀	1 - 1	of	1			GO			
Profile Name 🚔 De	escription	Sharable	Create	d Dat	e					XML
Generic Profile Al	DS Demo	Yes	04/06/	2020	10:37	Override		Load	Delete	



#### OSI Enhancements – 2022 (ADS)

- 73227: Changes in Instruction:
  - Enable the advance filter in instruction Grid.
  - Additional color scheme for commitment instructions:
    - Startup: Green
    - Shutdown: Orange

Instructions - Rescurce ID:									
Valid Instruction Type Accept DOT	Acces alus	Award MW	ED Energy Code	Instr MW	Min Accept	Self Sched MW	Start Time 🛛 🔻	End Time	Prev Goto
[ALL]									
Startup				0.00			11:00	12:00	
Shutdown				0.00			11:00	11:00	
DOT				1 17 00			40.57		400.00

#### - Transition: Yellow

١	alid Instruction Type	Accept DOT	Accept Status	Award MW	ED Energy Code	Instr MW	Min Accept	Self Sched MW	Start Time	Enc	nd Time	Prev Goto	Responder	From Config Id	To Config Id
	Transition 🗸								Ē						
	Transition					15.00			11:15	11:	:30				



#### **Central Procurement Entity: Structured Scenario 1**

Scenario Number		Scenario Execution Trade Date: 09/22/22
	Description	CPE entity should be able to view their obligation data, submit RA showing, and view their deficiency data.
	ISO Actions	<ul> <li>Upload the reference data (peak obligation, LCR by Tac obligation and flex obligation data) for a month</li> <li>Upload credit data (peak credit, LCR by tac credit &amp; flex credit data) for a month</li> <li>Ensure cross validation is running for the generic/flex data for the Month</li> </ul>
	EIM Market Participant Actions	N/A
1	ISO Market Participant Actions	Participant (CPE) should submit their RA Plan and ensure supplier also submits the corresponding supply plan.
	Expected Outcome	<ul> <li>Participant can view and verify their data after subsequent CV plan has been completed in the following screens:</li> <li>CV Output details screen</li> <li>Generic Obligation Report</li> <li>Flex Obligation Report</li> <li>RA Report</li> </ul>
	Anticipated Settlement Outcome	N/A
	Expected Settlement Outcome	N/A



#### Central Procurement Entity: Structured Scenario 2

Scenario Number	Scenario Execution Trade Date: 09/22/22						
	Description	Allocation of CPM cost to CPE entity.					
	ISO Actions	<ul> <li>Identify the resource and designate CPM and allocate the cost for this resource.</li> <li>Upload Load Share Ratio for the month specified</li> <li>Run CPM allocation for the month specified and broadcast data to settlements</li> </ul>					
	EIM Market Participant Actions	N/A					
2	ISO Market Participant Actions	N/A					
	Expected Outcome	Navigate to CPM allocation screen and verify the allocation data					
	Anticipated Settlement Outcome	CPE's SC gets cost allocation.					
	Expected Settlement Outcome	Please check CC 7896					



## Central Procurement Entity: Unstructured Scenario 3

Scenario Number		Scenario Execution Trade Date: 09/22/22 – 09/30/22
	Description	Updated logic for LSEs to display system obligation and LSE credit (CPE credit type) after the deficiency calculation.
	ISO Actions	<ul> <li>Upload the reference data (peak obligation, LCR by Tac obligation and flex obligation data) for a month</li> <li>Upload credit data (peak credit, LCR by tac credit &amp; flex credit data) for a month</li> <li>Ensure cross validation is running for the generic/flex data for the month</li> </ul>
	EIM Market Participant Actions	N/A
3	ISO Market Participant Actions	Participant (CPE) should submit their RA Plan and ensure supplier also submits the corresponding supply plan.
	Expected Outcome	<ul> <li>Participant can view and verify their data after subsequent CV plan has been completed in the following screens:</li> <li>CV Output details screen</li> <li>Generic Obligation Report</li> <li>Flex Obligation Report</li> </ul>
	Anticipated Settlement Outcome	N/A
	Expected Settlement Outcome	N/A



## Reliability Demand Response Resources Bidding Enhancements Phase 2: Structured Scenario 1

Scenario Number	Scenario Execution Trade Date: 10/11/22						
	Description	Submit Competitive Bids by Discrete RDRRs' SCs					
	ISO Actions	CAISO Operators declare EEA2 stage where discrete RDRRs are dispatched					
	EIM Market Participant Actions	N/A					
1	ISO Market Participant Actions	SCs of the discrete RDRRs submit competitive bids.					
	Expected Outcome	Follow the results in the sink systems to verify commitment, dispatch, and settlements of discrete RDRRs					
	Anticipated Settlement Outcome	N/A					
	Expected Settlement Outcome	N/A					



## Flexible Ramping Product – Deliverability: Unstructured Scenario 1

Scenario Number		Unstructured guided scenario
	Description	Demonstrate the variability of locational pricing for FRU/ FRD.
	ISO Actions	N/A
	EIM Market Participant Actions	Market Participants should input economic energy bids to observe results
1	ISO Market Participant Actions	N/A
1	Expected Outcome	Verify the results in OASIS
	Anticipated Settlement Outcome	Flex Ramp Prices used in settlements will reflect the new locational pricing for FRD
	Expected Settlement Outcome	CC 7070, CC 7071, CC 7076, CC 7077, CC 7078



# Flexible Ramping Product – Deliverability: Structured Scenario 2

Scenario Number	Scenario Execution Trade Date: 10/18/22					
	Description	Demonstrate the Settlements processing for FRP PASS/FAIL.				
	ISO Actions	N/A				
	EIM Market Participant Actions	Market Participants should input less that optimal flexible ramping requirements to fail the sufficiency test.				
	ISO Market Participant Actions	N/A				
2	Expected Outcome	FRP Sufficiency test Failed: FRU/FRD is still procured separately for the respective FRU/FRD requirement, but the latter is only reduced by the FRU/FRD demand elasticity in that BAA, without any FRU/FRD credit.				
	Anticipated Settlement Outcome	Allocation for both Movement and Uncertainty will be driven by the Pass Group, If a BAA Passes their Sufficiency test, the allocation amount will be a prorated between the BAA over EIM Area (All BAAs that belong to Pass Group).				
		If a BAA Fails their Sufficiency test, the allocation amount will be directly allocated/isolated to the individual BAA.				
	Expected Settlement Outcome	CC 7070, CC 7071, CC 7076, CC 7077, CC 7078, PC Flexible Ramp Product				



#### Fall 2022 Market Simulation Settlements Calendar Fall 2022 Market Sim Calendar (MAP STAGE)

#### Aug 22, 2022 through Oct 28, 2022; Extended TDs thru Nov 11, 2022

		,				
Calendar	CMRI	Submit Meter Data	Publish Initial Statement	Submit Meter Data	Publish Recalc Statement	
Day	T+1B	by T+2B 10:00 for Initial	T+5B	by T+5B 18:00 for Recalc	T+8B	Publish Market Invoice
		T+9B	T+9B	T+70B	T+70B	
10-Oct-22		6-Oct				
11-Oct-22			4-Oct	4-Oct	29-Sep	
12-Oct-22						Daily Recalc 27-Sep; Daily Recalc 29-Sep;
	11-Oct				Monthly Recalc 27-Sep - 29-Sep	Monthly Recalc 27-Sep - 29-Sep
13-Oct-22	11 000	11-Oct	6-Oct	6-Oct		
14-Oct-22		11 000				Daily Initial 4-Oct; Daily Initial 6-Oct;
	13-Oct		Monthly Initial 4-Oct - 6-Oct		4-Oct	Monthly Initial 4-Oct - 6-Oct
17-Oct-22	15-000	13-Oct			4-000	
18-Oct-22		13-000	11-Oct	11-Oct	6-Oct	
19-Oct-22			11-000	11-000	0-001	Daily Recalc 4-Oct; Daily Recalc 6-Oct;
13-001-22	18-Oct				Monthly Recalc 4-Oct - 6-Oct	Monthly Recalc 4-Oct - 6-Oct
20-Oct-22	18-000	18-Oct	13-Oct	13-Oct		
21-Oct-22		18-000	13-000	13-000		Daily Initial 11-Oct; Daily Initial 13-Oct;
21-001-22	20.0+		Manthly Initial 11 Oct. 12 Oct.		11.0+	Monthly Initial 11-Oct - 13-Oct
24-Oct-22	20-Oct	20.0+t	Monthly Initial 11-Oct - 13-Oct		11-Oct	
24-0ct-22 25-0ct-22		20-Oct	10.0.1	10.0.1	12.0.1	
			18-Oct	18-Oct	13-Oct	
26-Oct-22						Daily Recalc 11-Oct; Daily Recalc 13-Oct;
07.0 1 00	25-Oct				Monthly Recalc 11-Oct - 13-Oct	Monthly Recalc 11-Oct - 13-Oct
27-Oct-22		25-Oct	20-Oct	20-Oct		
28-Oct-22						Daily Initial 18-Oct; Daily Initial 20-Oct;
	27-Oct		Monthly Initial 18-Oct - 20-Oct		18-Oct	Monthly Initial 18-Oct - 20-Oct
31-Oct-22		27-Oct				
01-Nov-22			25-Oct	25-Oct	20-Oct	
02-Nov-22						Daily Recalc 18-Oct; Daily Recalc 20-Oct;
					Monthly Recalc 18-Oct - 20-Oct	Monthly Recalc 18-Oct - 20-Oct
03-Nov-22			27-Oct	27-Oct		
04-Nov-22						Daily Initial 25-Oct; Daily Initial 27-Oct;
			Monthly Initial 25-Oct - 27-Oct		25-Oct	Monthly Initial 25-Oct - 27-Oct
05-Nov-22						
06-Nov-22						
07-Nov-22						
08-Nov-22					27-Oct	
09-Nov-22						Daily Recalc 25-Oct; Daily Recalc 27-Oct;
					Monthly Recalc 25-Oct - 27-Oct	Monthly Recalc 25-Oct - 27-Oct
						÷

#### https://www.caiso.com/Documents/MarketSimulationSettlementsCalendar-Fall2022Release.pdf



Reliability demand resource response phase 2

- **Timeline:** 10/11 10/28
- Scenarios : 10/11- Complete
- EEA2 Stage emergency 1300-1600 PPT

Scenarios document -

https://www.caiso.com/Documents/MarketSimulationStructure dScenarios-ReliabilityDemandResponseResourcesPhase2.pdf



#### 2022 - System Interface Changes

Syste m	Release	Project	API Service Name & Major Version, Artifacts	MAP-Stage	Production	Technical Specifications
SIBR	2022 Independent		New: SC of PT Export New: SC of supporting resource	<ul> <li>✓ 5/5/22 - UI</li> <li>API TBD</li> </ul>	✓ 6/1/22 - UI API TBD	TBD
MF	Fall 2022	Hybrid Resources 2B	SubmitGeneratorRDT_MFRDv5_20211001 RetrieveGeneratorRDT_MFRDv5_20211001	~	Deployed	✓
MF	Fall 2022	Hybrid Resources 2B	<ul> <li><u>RDT Definitions v17 DRAFT</u>:</li> <li><u>GRDT v17</u></li> <li>Changes:</li> <li>RESOURCE tab:</li> <li>HYBRID_COMPONENTS tab: (Hybrid Resource Phase 2-B, activation date moved to Fall 2022)</li> <li>Add fields: MIN_CONT_ENERGY_LIMIT, MAX_CONT_ENERGY_LIMIT, ENERGY_EFFIC</li> </ul>	✓ 9/19/22	12/1/22	✓ <u>Drafts</u> 5/24/22
SIBR	Fall 2022	Hybrid Resources 2B	SubmitDynamicResourceLimitsData_SIBRv1 RetrieveDynamicResourceLimitsData_SIBRv1	✓ 11/02/22	12/1/22	<ul> <li>Artifacts 2/2/22</li> <li>Tech Spec 2/8/22</li> </ul>
ALFS	Fall 2022	Hybrid Resources 2B	SubmitSCVERForecast_ALFSv1 RetrieveSCVERForecast_FDRv1	✓ 8/22/22	12/1/22	✓ 5/25/22

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#### 2022 - System Interface Changes

Syste m	Release	Project	API Service Name & Major Version, Artifacts	MAP-St	tage	Production	Technical Specifications
CMRI	Fall 2022	Hybrid Resources 2B	Modify: RetrieveEIRForecast_CMRIv1_AP - 20220401 Modify: RetrieveEIRForecast_CMRIv1_DocAttach_AP - 20220401	✓ 10/2	26/22	12/1/22	✓ 7/15/22
CMRI	Fall 2022	Hybrid Resources 2B	New: RetrieveAggregatedCapabilityConstraintDefinition_CMRIv1_AP New: RetrieveAggregatedCapabilityConstraintDefinition_CMRIv1_DocAttach_AP	✓ 10/2	26/22	12/1/22	✓ 7/15/22
CMRI	Fall 2022	FRP Improvements – Deliverability	Resource Nodal prices for the FRP awards Will leverage existing API & UI functionality for FRP products (FRU/FRD) – No changes need for UI & API functionality; Users can continue to use existing UI/API functionality as is.	✓ 10/1	1/22	12/1/22	<del>N/A</del>
OASIS	Fall 2022	Hybrid Resources 2B	Include constraint in the Scheduling Constraint Shadow Prices report <ul> <li>New: Aggregate Capability Constraint Shadow Prices; ACC_SHDW_PRC</li> </ul>	✓ 10/2	27/22	12/1/22	✓ 7/15/22
OASIS	Fall 2022	FRP Improvements – Deliverability	<ul> <li>Demonstrate the variability of locational pricing for FRU/FRD.</li> <li>New: Flex Ramp Requirements Input Uncertain Histogram; FLEX_RAMP_REQ_INP_HSG</li> <li>New: Flex Ramp Requirement Input - Polynomials; FLEX_RAMP_REQ_INP_POLYNOMIALS</li> <li>New: Flex Ramp Requirement Threshold; FLEX_RAMP_REQ_THRESH</li> <li>New: Flexible Ramp Test Result Groups; FLEX_RAMP_TEST_RESULT_GROUP</li> <li>New: Flexible Ramping Nodal Prices; FLEX_RAMP_NODAL_PRC</li> <li>New: Flexible Ramping Scheduling Constraint Shadow Prices; FLEX_RAMP_SCH_CNSTR_SHDW_PRC</li> <li>New: Flexible Ramping Forecasts; FLEX_RAMP_FCST</li> <li>Flexible Ramp Surplus Demand Curve; ENE_FLEX_RAMP_DC</li> </ul>	✓ 10/1	13/22	12/1/22	✓ 7/15/22

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#### 2022 - System Interface Changes

System	Release	Project	API Service Name & Major Version, Artifacts	MAP-Stage	Production	Technical Specifications
ADS	2022	Operations Systems Improvements	Ability to "Update/Override existing configuration"	✓ 9/30/22	✓ 10/27/22	N/A
ADS	2022	Operations Systems Improvements	Add advance filter & additional color scheme for Commitment Instructions in ADS Instructions Table/Grid Changes to Instruction Grid: - Enable the advance filter in instruction Grid - Additional color scheme for commitment instructions: - Startup: Green - Shutdown: Orange - Transition: Yellow	✓ 9/30/22	<ul> <li>✓ 10/27/22</li> </ul>	N/A

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- DRRS deployed DRRS UI 2.2.1, DRRS API 2.2.4 to the MAP-Stage environment to allow for a market participant testing period opportunity.
- Release contents:
  - Preventing the incumbent DRP user to end-date or update its respective location record which is currently in active defense mode. This is to preserve/honor completion of the defense process to prevent further issues (overlapping location recs, no action done on a defense by the system).
  - API output location review start/end and location defense start/end datetime values will be corrected to be published in the correct GMT value & format.
  - Email generation resolved rare/intermittent issue of system not sending out emails
- For those with ISO Developer Site access please refer to this Release Notes document posted at:
  - <u>https://developer.oa.caiso.com/Artifacts/DRRS/ReleaseNotes/DRRS%20UI%202.2.1%20API%202.2.4%</u>
     <u>20Release%20Notes%20v1.0%20(Nov%202022%20Release).pdf</u>
- For those without access to the ISO Developer Site please access the release notes at the following link -
  - <u>http://www.caiso.com/Documents/Release-Notes-v1-0-DRRS-UI-2-2-1-API-2-2-4-Clean-Nov2022Release.pdf</u>
- Environment Schedule :
  - MAP-Stage 10/28/2022 to 11/4/2022
  - Production 11/9/2022 (tentative)
- Please submit any questions or issues observed while performing MAP-Stage testing via the CIDI application, and be sure to select the Functional Environment field as "Market Simulation".



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> DRP VIEW	> Locations										-					
LOCID	LOC Name Test D	efend l SAN	DRP	ALL] 🗸 UDC	[ALL]	✓ LSE [AL	L] 🗸 SI	UBLAP [ALL]	✓ D	efense Act	ive [ALL] 🗸 l	Jpdated Since	DateTime		E	Apply
Create	Copy Dele	ete Defend	Withdray	w Edit		End Date	Register									
Locations																
多 🖌 🖄 🚝															Ro	NS 25 🗸
Select Loc ID	Name		SAN		DRP	UDC LSE	SUBLAP	Device Type	PNODE		Start Date	End Date	Status	Defense Active	PDefense Star	t Defense End
												2 11/01/2022				10 00 0000
												2 10/14/2022		Y	10/05/2022	10/26/2022 10/26/2022
							_					2 09/15/2022				
L ti A																
Location A	aaress															
Address 1				Addres	s 2			City			Zip	Туре				
fghfh								Folso	m	CA	95630					
✓ Location	n Review Details															
LSE Approved	LSE Comments		LSE Reviewer	LSE Contact Inf	o	UDC Approved	UDC Co	omments			UDC Reviewer	UDC Contac	t Info			
~ Location	Defend Details	Incumbent														
€ ک څ																
Incumbent Name	Incumbent Contact Info	Incumbent Comme	ents			Prospective Nan	ne Prospec	ctive Contact Info	Prospecti	ive Comme	nts					
						La			Test Defe	end process						
	Defend Detaile	Brooppotivo														
	n Defend Details -	rospective												_		
₽₽≠ D	10/05/2022 15:14:00 Loca	tions in active defense r	process cannot be E	nd Dated.												
		,					III	NT_ADMINX10692 ·	DEV							



#### • DRRS Tech Spec 3.3.4

34	Internal application error occurred unable to end-date location	When an exception is thrown while end-dating a location.
		Possible scenario is when a location is in active defense process.
35	Internal application error occurred unable to modify location	When an exception is thrown while modifying a location.
		Possible scenario is when a location is in active defense process.



#### Before

Defense Active?	Defense Star	t Defense End	Review Start	Review End	Status	UDC Reviewed F
Y	05/21/2019	05/23/2019	01/09/2019	01/24/2019	Active	Y
<>defensel	Ind	2019-05-22T	17:00:00.000	-07:00		
1	tart	2019 05 201	17:00:00.000	-07:00		
<>>defenses	lait	2013-03-201	11100100000			
<>defenses	2	2019-01-2410				



> DRP VIEW						_	_	_			_	_							
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11546094	Test Defend LNI1			Test-875	3568	DSDGE	USDGE	LSDGE S	LAP_SDG1					09/16/2022	10/14/2022	2 Active	Y	10/05/2022	10/26/202
11546094	Test Defend LNI1			Test-875	3568	DSDGE	USDGE	LSDGE S	LAP_SDG1					09/16/2022	10/14/2022	2 Active	Y	10/05/2022	10/26/202
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LSE Approved	LSE Comments		LS	E Reviewer	LSE Contact Ir	ifo	UDC App	roved	UDC Comme	ents			UDC Re	viewer	UDC Conta	ct Info			
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#### After

efense Active?	Defense Start	Defense End	Review Start	Review End
	10/19/2022	10/20/2022	10/19/2022	10/20/2022

DRRegistration									
	= xmins	http://www.caiso	.com/soa/DRRegistrationDa	ta_v2.xsd#					
	<ul> <li>MessageHead</li> </ul>	ler							
	<ul> <li>MessagePayle</li> </ul>	bad							
		<ul> <li>DistributedEn</li> </ul>	nergyResourceContainer						
			<>mRID						
			<>name						
			DemandResponse	Provider					
			<ul> <li>DistributedActivity</li> </ul>	1					
			<ul> <li>✓ Location</li> <li>✓ RegisteredGenerator</li> </ul>						
			<ul> <li>status</li> </ul>						
			<>defenseActiveFlag	true					
			<>defenseEnd	2022-10-21T06:59:59.000Z					
			<>defenseStart	2022-10-19T07:00:00.000Z					
			<>locationID	11546205					
			<>reviewEnd	2022-10-21T06:59:59.000Z					
			<>reviewStart	2022-10-19T07:00:00.000Z					
			DemandUtilityDist	ributionCompany					
			Document (2)						



#### Fall 2022 Market Simulation Initiatives & Timelines

Fall 2022 Initiatives	Start Date	<u>Start Date</u> (Trade Date)	End Date	Scenario Start (Trade Date)
Fall 2022 Market Simulation				
Flexible ramping product – deliverability	10/11/22	10/11/22	11/11/22	10/18 & 10/20
Hybrid resources phase 2B	10/11/22	10/11/22	11/11/22	11/01 & 11/03

#### Market Simulation Plan:

https://www.caiso.com/Documents/MarketSimulationPlan-Fall2022Release.pdf



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## Market Simulation call update

 Extending Market Simulation for Fall 2022 Release by 1 week till 11/18.



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