

# CMRI & OASIS Customer Partnership Group April 2020

Prince Philip & Swami Mahalingam IT Product Management

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# Customer Partnership Group Scope and Objective

- Created in response to customer's request to have more involvement in the planning, design and usability validation phases of ISO application development
- Provide an open interactive partnership forum to identify potential opportunities to improve the overall customer experience
- Share ideas, opinions and provide feedback
- Discuss issues and concerns, and answer customer questions
- All ideas are welcome and will be considered based upon feasibility, prioritization and timeline constraints. Not all ideas may be feasible to implement
- Meetings vary in frequency to review progress, provide feedback on design and usability and discuss implementation approaches
- Active participation is critical to the CPG success and to improve our customer's experience interacting with ISO applications



#### Agenda

- Introduction
- Process Improvements
  - Release Notes
  - Knowledge Articles
- Upcoming Changes
  - Variances
  - Lessons learned from 2019
  - Version Management
- Open Discussion



# **Process Improvements**



# **CMRI** Release Notes

- The latest release notes provides details on patches related to:
  - Commitment Costs and Default Energy Bids Enhancements (CCDEBE)
  - Reliability Coordinator (RC) West
- Path to latest release notes on developer site:
  - Go to developer site
  - Click on CMRI under Apps
  - Navigate to Release Notes

This is an example of latest release notes describing issues that were addressed as part of a patch. As part of process improvement, we will publish release notes as we deploy patches into production that addresses any open defects



# **OASIS Release Notes**

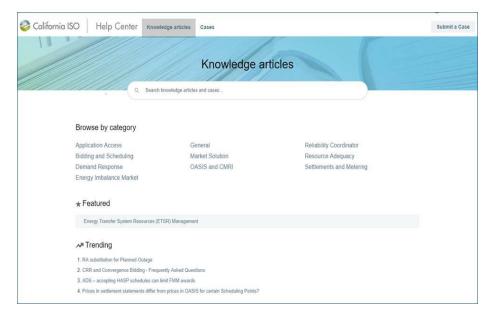
- The latest release notes provides details on the patches related to:
  - Flex Ramp Surplus Demand Curve: Fix to address Flex Ramp Surplus Demand Curve, returning data for any date irrespective of the date in the filter
  - Flexible Ramp Aggregate Awards: Fix to address Flexible Ramp Aggregate
     Awards returning data for any date irrespective of the date in the filter
  - Flexible Ramping Constraint Results: Fix to address the data consistency.
    - CIDI Ticket ref#: 218587
- Path to latest release notes on developer site:
  - Go to developer site
  - Click on OASIS under Apps
  - Navigate to Release Notes

This is an example of latest release notes describing issues that were addressed as part of a patch. As part of process improvement, we will publish release notes as we deploy patches into production that addresses any open defects



# **Knowledge Articles**

- Knowledge Articles are now available in CIDI
  - Mini FAQs or brief explanation on certain functions
  - SCs may contact your Customer Rep to get access to CIDI





# **Knowledge Articles**

- Knowledge Articles are now available in CIDI
  - Example for discussion purposes Only

	RELATED ARTICLES	
O Nov 21, 2018 - Knowledge	Why does the ELAP LMP in my settlement statemen t not match what I see in OASIS?	
QUESTION The Load Settlement Price Report has not been updated with the latest data on the CAISO page, why?	Scheduling Point/Tie Combination Locational Margin  45 al Prices report Gas Price Index Scaling Factors	
SOLUTION		
As part of the 2017 Fall release, the ISO has stopped posting data to the Load Settlement Price reports effective 04/03/18. These reports are located on the ISO website under Stay Informed /	Fuel Price Region Definitions 24	
Bulletins, Reports and Studies / Market Performance Reports / Load Settlement Price Reports. Link: http://www.caiso.com/Pages/documentsbygroup.aspx?GroupID=208D5210-7498-402B-	How is a participant notified when prices are posted on OASIS?	
A1EE-74C455442A36		
Effective 04/04/18, the data is now included in a new OASIS report under PRICES >> Hourly RTM LAP Prices.		
ATTACHMENTS		
as this article helpful?		



# Examples of OASIS & CMRI Knowledge Articles

- How is a participant notified when prices are posted on OASIS?
- When will the missing prices in Open Access Same-time Information System (OASIS) and/or Customer Market Results Interface (CMRI) be published?
- Missing CAISO Demand Forecast data for Real-Time Market
- Reports in CMRI and OASIS contain no data after a certain trade date
- OASIS RUC LMPs not published for all locations
- Data retention period(s) for OASIS, CMRI, and ADS
- Prices in settlement statements differ from prices in OASIS for certain Scheduling Points?



# **Upcoming Changes**



#### CMRI & OASIS Variances - April

- The upcoming release notes should highlight the defects that are fixed and deployed in production for both OASIS and CMRI
- The list below shows the current count of known variances in CMRI and OASIS
- Definition of Severity
  - Urgent Data Loss/Critical Error
  - Very High Loss of functionality without work around
  - High Loss of functionality with work around
  - Medium Partial Loss of feature set
  - Low Cosmetic or documentation error

System	Severity	# Defects
CMRI	High	3
	Medium	2
	Low	2
OASIS	High	2
	Medium	2
	Low	1



- Background
  - Major stack Upgrade in Q1 2019 for performance and technology needs
    - No Market Simulation executed
    - Large number of CIDI cases related to few root-cause
    - Corrupted and Empty files created in high load conditions
  - OASIS has un-named user community currently which limits the ability to proactively inform customers of missing intervals



- Background
  - ISO's standard policy is to support two versions of services as described in the Technical Specifications
  - Goal is to provide customers time to transition to latest version
  - The ISO currently supports multiple versions for OASIS
  - Customers continue to use unsupported versions, that are not tested for future upgrades.
  - Resulting in increased support time/cost for stakeholders and ISO when troubleshooting unsupported versions



- Controls implemented to date
  - Engage participants for simulation exercise for technology upgrades
  - Application self-heals when it encounters corrupt, no data returned or missing files with alerts for root cause investigation



- The Plan ahead
  - Version Management
    - Enforce the policy to support only two versions of services
    - Technical Specification will indicate supported and deprecated versions
    - Revised Technical Specification will be available on <u>5/29/2020</u>
    - Deprecated versions will be decommissioned on <u>9/1/2020</u>
  - Identifying patterns to embed information related to events resulting in failed market intervals within API and UI



## OASIS – Version Management

- Path to latest Tech Specs on developer site:
  - Go to developer site
  - Click on OASIS under Apps
  - Navigate to Tech Specs
- Path to currently supported versions
  - Go to developer site & Click on OASIS
  - Navigate to Tech Specs section for these files
    - OASIS SingleZipServiceResults\_SupportedVersions\_April\_09\_2020.xls
    - OASIS GroupZipServiceResults\_SupportedVersions\_April\_09\_2020.xls



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#### Snapshot of current OASIS Version Support - SingleZip

- As an example, in the table below currently we support 3 versions of services
  - PRC\_INTVL\_LMP Report
  - PRC\_HASP\_LMP Report

Report ID	Report URL
PRC_LMP	NULL=PRC_LMP&startdatetime=20200202T08:00-0000&enddatetime=20200203T08:00-0000&version=1&market_run_id=DAM&grp_type=ALL_APNODES
PRC_LMP	NULL=PRC_LMP&startdatetime=20200202T08:00-0000&enddatetime=20200203T08:00-0000&version=1&market_run_id=DAM&node=LAPLMG1_7_B2
PRC_INTVL_LMP	NULL=PRC_INTVL_LMP&startdatetime=20200202T08:00-0000&enddatetime=20200202T09:00-0000&version=1&market_run_id=RTM&node=LAPLMG1_7_B2
PRC_INTVL_LMP	NULL=PRC_INTVL_LMP&startdatetime=20200202T08:00-0000&enddatetime=20200202T09:00-0010&version=28 market_run_id=RTM&grp_type=ALL_APNODES
PRC_INTVL_LMP	NULL=PRC_INTVL_LMP&startdatetime=20200202T08:00-0000&enddatetime=20200202T09:00-0000&version=28 market_run_id=RTM&node=LAPLMG1_7_B2
PRC_INTVL_LMP	NULL=PRC_INTVL_LMP&startdatetime=20200202T08:00-0000&enddatetime=20200202T09:00-0000&version=38 market_run_id=RTM&grp_type=ALL_APNODES
PRC_INTVL_LMP	NULL=PRC_INTVL_LMP&startdatetime=20200202T08:00-0000&enddatetime=20200202T09:00-0000&version=38 market_run_id=RTM&node=LAPLMG1_7_B2
PRC_HASP_LMP	NULL=PRC_HASP_LMP&startdatetime=20200202T08:00-0000&enddatetime=20200202T09:00-0007&version=1&market_run_id=HASP&grp_type=ALL_APNODES
PRC_HASP_LMP	NULL=PRC_HASP_LMP&startdatetime=20200202T08:00-0000&enddatetime=20200202T09:00-0000&version=18 market_run_id=HASP&node=LAPLMG1_7_B2
PRC_HASP_LMP	NULL=PRC_HASP_LMP&startdatetime=20200202T08:00-0000&enddatetime=20200202T09:00-0000&version=28 market_run_id=HASP&grp_type=ALL_APNODES
PRC_HASP_LMP	NULL=PRC_HASP_LMP&startdatetime=20200202T08:00-0000&enddatetime=20200202T09:00-0000&version=28 market_run_id=HASP&node=LAPLMG1_7_B2
PRC_HASP_LMP	NULL=PRC_HASP_LMP&startdatetime=20200202T08:00-0000&enddatetime=20200202T09:00-0000&version=38 market_run_id=HASP&grp_type=ALL_APNODES
PRC_HASP_LMP	NULL=PRC_HASP_LMP&startdatetime=20200202T08:00-0000&enddatetime=20200202T09:00-0001&version=38 market_run_id=HASP&node=LAPLMG1_7_B2



#### Snapshot of current OASIS Version Support - GroupZip

- As an example, in the table below currently we support 3 versions of services
  - HASP\_LMP\_GRP Report
  - RTPD\_LMP\_GRP Report

Report ID	Report URL		
DAM_LMP_GRP_v1_1	NULL=DAM_LMP_GRP&startdatetime=20200203T08:00-0000&version=1		
HASP_LMP_GRP_v1	NULL=HASP_LMP_GRP&startdatetime=20200203T08:00-0000&enddatetime=20200203T09:00-000	0&version=1	
	NULL=HASP_LMP_GRP&startdatetime=20200203T08:00-0000&enddatetime=20200203T09:00-000		
	NULL=HASP_LMP_GRP&startdatetime=20200203T08:00-0000&enddatetime=20200203T09:00-000		
RTPD_LMP_GRP_v1	NULL=RTPD_LMP_GRP&startdatetime=20200203T08:00-0000&enddatetime=20200203T09:00-000	&version=1	
RTPD_LMP_GRP_v3	NULL=RTPD_LMP_GRP&startdatetime=20200203T08:00-0000&enddatetime=20200203T09:00-000	&version=3	
RTPD_LMP_GRP_v2	NULL=RTPD_LMP_GRP&startdatetime=20200203T08:00-0000&enddatetime=20200203T09:00-000	&version=2	



#### OASIS Supported Versions Example - HASP\_LMP\_GRP

• The following table illustrates an example showcasing the versions supported by OASIS application vs documented Tech Specs

Report ID	
HASP_LMP_GRP_v1	
HASP_LMP_GRP_v3	
HASP_LMP_GRP_v2	

HASP_LMP_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=HASP_LMP_GRP&startdatetime=2013091 9T07:00-0000&enddatetime=20130919T08:00-0000&version=1
From TechSpec	OR http://oasis.caiso.com/oasisapi/GroupZip?groupid=HASP_LMP_GRP&startdatetime=2013091 9T07:00-0000&enddatetime=20130919T08:00-0000&version=3 Note: Version 3 response zip file will include separate file for each price component



#### CMRI – Version Management

- CMRI currently supports two versions of services which is in compliance with CAISO guidelines
- Path to latest Tech Specs on developer site:
  - Go to developer site
  - Click on CMRI under Apps
  - Navigate to Tech Specs



#### **Open Discussion**

- Some high level feedback we've heard but would like more details on recent experiences, so we can make these actionable
  - OASIS usability
  - Data takes too long to load
  - Customers want to pull more data at a time
  - Data missing or "incorrect" at times
  - Data in OASIS is inconsistent with data in CMRI



## Follow up Questions / Communications

For follow-up questions or to suggest future topics please contact your client representative or submit a CIDI ticket.

