Technical User Group Agenda

Jan 10th, 2017   *10:00 a.m. – 11:00 a.m. (Pacific Time)*

Web Conference Information		Conference Call Information	
URL:	https://www.connectmeeting.att.com	Domestic Call In:	(866) 528-2256
Meeting Number:	8665282256	International Call In:	(216) 706-7052
Access Code:	6085978	Pass Code:	6085978

Time	Topic	Facilitator
10:00 – 10:05	Agenda & ISO Roll call	Sean Crimmins
10:05 – 10:20	Web Tier Maintenance	John Huetter
10:20 – 10:40	OASIS & CMRI Short Term Plan Updates	Sunitha Srinivasan Arul Jayaraman
10:45 - 10:50	Adjourn	Sean Crimmins

CAISO Web Layer Maintenance

- CAISO is in the process of upgrading UI, web services, and ads web layer technology to newer versions

  - Maintain vendor recommended and supported software versions
    - Linux Operating System, Apache, Actional Intermediary

  - Add support for newer security protocols
    - TLS 1.1 and TLS 1.2

  - Improve supportability – Add additional logging forensics and diagnostics to help address Production issues

CAISO Web Layer Maintenance

- URL's which will be affected by this upgrade:
  - Note: MAPStage has already been upgraded!

MAPStage	Production
https://portalmap.caiso.com	https://portal.caiso.com
https://portaleimmap.caiso.com	https://portaleim.caiso.com
https://wsmap.caiso.com	https://ws.caiso.com https://wsstas.caiso.com:4445
https://idpmap.caiso.com	https://idp.caiso.com
https://reportingmap.caiso.com	https://reporting.caiso.com
https://adsmap.caiso.com:447	https://adssta.caiso.com:447 https://ads.caiso.com:447

California ISO

CAISO Web Layer Maintenance

- Changes participants should expect:

  - Brief system failovers (will communicate and keep to a minimum)
  - HTTP error page look/feel will be standardized
  - B2B WSDL's generated by the new software @ CAISO may have slight formatting differences or namespace declarations.
  - SOAPAction HTTP header is now required to be set for web service transactions

- What will not be changing:

  - oasis.caiso.com and www.caiso.com sites will not be upgraded as part of this effort
  - AUP (Acceptable Use Policy)
    - Additional enforcement is not scheduled to be implemented alongside this work; but will be communicated via a separate market notices. May go in around the same time.
    - AUP violation HTTP return code will remain using HTTP code 429
  - URL's, naming conventions. We will keep all the same current domain names, and URI' as provided in the System Access Information document
  - IP Addresses including ECN traffic, routing, and AT&T NAT addressing will not change

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CAISO Web Layer Maintenance

- What we would like from you now:

  - Please test your critical web service calls in MAPStage
  - We would like help testing MNS messages as before

- Other upcoming web layer changes scheduled or proposed for 2017:

  - The Legacy webservices URL https://wsstas.caiso.com:4445 **will be scheduled for decommission soon.** These URL's will all work when pointed to https://ws.caiso.com
    - Exact date/process will be scheduled and communicated.

  - The Production alias https://adssta.caiso.com:447 will be retired in 2017. We would like to ensure all clients are using https://ads.caiso.com:447. This may require an ADS client upgrade.
    - Exact date/process will be scheduled and communicated.

  - Support for TLS 1.0 will be removed in 2017.
    - Exact date/process will be scheduled and communicated.

CAISO Web Layer Maintenance

- ## Questions???

  - Please create CIDI tickets for tracking purposes
  - You may call the CAISO Help Desk @ 916-351-2309
  - You may reach John Huetter, Systems Integration @ 916-608-5839

For all support tickets, please provide (the more information, the quicker we can resolve):

  - CAISO URL you attempted
  - Error Message, Error Code, Screenshot
  - Time of transaction, please include seconds if possible
  - Certificate Used
  - Source IP (If available)

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Short-Term Plan OASIS

The updated OASIS Technical Specifications v4.3.3 include proposed changes noted below:

API Report Name	Existing Version(XML & CSV)	Proposed New Version(XML & CSV)
PRC_INTVL_LMP	One file with all price components within the same zip file- LMP, Congestion , Energy, Loss and GHG	Separate file for each price component within the same zip file - LMP, Congestion , Energy, Loss and GHG
PRC_RTPD_LMP	One file with all price components within the same zip file- LMP, Congestion , Energy, Loss and GHG	Separate file for each price component within the same zip file - LMP, Congestion , Energy, Loss and GHG
PRC_HASP_LMP	One file with all price components within the same zip file- LMP, Congestion , Energy and Loss	Separate file for each price component within the same zip file - LMP, Congestion , Energy and Loss
PRC_SPTIE_LMP(RTD,RTPD)	One file with all price components within the same zip file- LMP, Congestion , Energy, Loss and GHG	Separate file for each price component within the same zip file - LMP, Congestion , Energy, Loss and GHG
TRNS_CURR_USAGE	Request allows for past , current and future trade dates	No change to current and future trade dates . System will throw - "Invalid Request Error" for requests with past trade dates.
TRNS_CURR_USAGE & TRNS_USAGE	No restriction on number of transmission id's requested in single zip.	System will throw error 1017 which is "Please select a maximum of 10 nodes or use the ALL option." when you are requesting data for more than 10 transmission id's for single zip.

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Short-Term Plan OASIS

OASIS API changes based on query type:

XML Report Name	Market Run ID	Version	Query Type	Response file
PRC_INTVL_LMP	RTM	3	Single node	One file with all price components within the same zip file- LMP, Congestion , Energy, Loss and GHG
PRC_INTVL_LMP	RTM	3	ALL_APNODES	One file with all price components within the same zip file- LMP, Congestion , Energy, Loss and GHG
PRC_INTVL_LMP	RTM	3	ALL	Separate file for each price component within the same zip file - LMP, Congestion , Energy, Loss and GHG
PRC_HASP_LMP	HASP	3	Single node	One file with all price components within the same zip file- LMP, Congestion , Energy, Loss and GHG
PRC_HASP_LMP	HASP	3	ALL_APNODES	One file with all price components within the same zip file- LMP, Congestion , Energy, Loss and GHG
PRC_HASP_LMP	HASP	3	ALL	Separate file for each price component within the same zip file - LMP, Congestion , Energy, Loss and GHG
PRC_RTPD_LMP	RTPD	3	Single node	One file with all price components within the same zip file- LMP, Congestion , Energy, Loss and GHG
PRC_RTPD_LMP	RTPD	3	ALL_APNODES	One file with all price components within the same zip file- LMP, Congestion , Energy, Loss and GHG
PRC_RTPD_LMP	RTPD	3	ALL	Separate file for each price component within the same zip file - LMP, Congestion , Energy, Loss and GHG
PRC_SPTIE_LMP	RTD,RTPD	5	Single node	One file with all price components within the same zip file- LMP, Congestion , Energy, Loss and GHG
PRC_SPTIE_LMP	RTD,RTPD	5	ALL_APNODES	One file with all price components within the same zip file- LMP, Congestion , Energy, Loss and GHG
PRC_SPTIE_LMP	RTD,RTPD	5	ALL	Separate file for each price component within the same zip file - LMP, Congestion , Energy, Loss and GHG

Short-Term Plan OASIS

OASIS API New Versions - Transition Schedule :

Market Simulation Testing Period - (1/3/2017 - 1/22/2017)

XML Report Name	Market Run ID	Group Name	Version	Transition Period in Production (01/23/2017-2/19/2017)	After Transition Period(2/20/2017 onwards)
PRC_INTVL_LMP	RTM	RTM_LMP_GRP	1	Supported	Not Supported/ Invalid Request
PRC_INTVL_LMP	RTM	RTM_LMP_GRP	2	Supported	Not Supported/ Invalid Request
PRC_INTVL_LMP	RTM	RTM_LMP_GRP	3	Supported	Supported
PRC_HASP_LMP	HASP	HASP_LMP_GRP	1	Supported	Not Supported/ Invalid Request
PRC_HASP_LMP	HASP	HASP_LMP_GRP	2	Supported	Not Supported/ Invalid Request
PRC_HASP_LMP	HASP	HASP_LMP_GRP	3	Supported	Supported
PRC_RTPD_LMP	RTPD	RTPD_LMP_GRP	1	Supported	Not Supported/ Invalid Request
PRC_RTPD_LMP	RTPD	RTPD_LMP_GRP	2	Supported	Not Supported/ Invalid Request
PRC_RTPD_LMP	RTPD	RTPD_LMP_GRP	3	Supported	Supported
PRC_SPTIE_LMP	RTD,RTPD	RTD_SPTIE_LMP_GRP, RTPD_SPTIE_LMP_GRP	3	Supported	Not Supported/ Invalid Request
PRC_SPTIE_LMP	RTD,RTPD	RTD_SPTIE_LMP_GRP, RTPD_SPTIE_LMP_GRP	4	Supported	Not Supported/ Invalid Request
PRC_SPTIE_LMP	RTD,RTPD	RTD_SPTIE_LMP_GRP, RTPD_SPTIE_LMP_GRP	5	Supported	Supported

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Short-Term Plan OASIS

- Load Balancing (Q1 2017)
    - Active/Active Option with Lincoln center

- Identify/Eliminate very few 502 Errors (Q1 2017)
    - Infrastructure Upgrade
        - Apache Reverse Proxy Upgrade

Short-Term Plan CMRI

- Load Balancing : Active/Active Option with Lincoln center (Q1 2017)

- Eliminate very few remaining 502 Errors (Q1 2017)
  - Infrastructure Upgrade
    - Apache Reverse Proxy Upgrade
    - B2b Upgrade
    - Clear trust client upgrade

- Retrieval Patterns – Provide more Feedback
  - Reduce query size to single SC per query

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CMRI Retrieval Patterns – Request for Feedback

Our objective is to support required access patterns while maintaining system availability for all participants.

Please provide retrieval patterns e.g.

We pull resource awards for 3 SC's (x, y, z) after each market run

We re-pull the entire day at T+4 and T+11 for corrections

Wrap-up

Please send agenda items to scrimmins@caiso.com