

Technology User Group (TUG)

March 6, 2018 10:00 – 11:00 AM Pacific

TUG Agenda

Web Conference Information		Conference Call Information	
URL	https://caiso.webex.com/meet/twilliams	Domestic Call-In	(866) 528-2256
Meeting Number	966 010 353	International Call-In	(216) 706-7052
Access Code	389 588 9	Access Code	389 588 9

Time	Торіс	Facilitator	
10:00 - 10:05	Agenda and Roll Call	Thomas Williams	
10:05 – 10:20	Update on Disabling TLS 1.0 and 1.1	Thomas Williams	
10:20 - 10:40	OMS Status Messages	Thomas Williams	
10:40 – 10:55	Disabling RAAM UI and API	Sandhya Balasubramanian	
10:50 - 10:55	Adjourn	Thomas Williams	



Disabling TLS 1.0 and 1.1

The ISO will disable TLS 1.0 and 1.1 in accordance with industry best practices for security and data integrity

MAP-Stage date

February 26, 2018 (DONE)

Production date

April 23, 2018

https://ads.caiso.com:447/ADS/APIWebService/v6 https://ads.caiso.com:447/ADS/APIWebService/v7

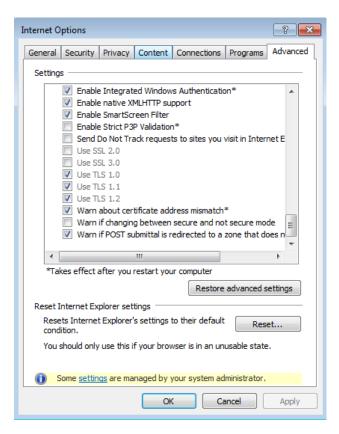
https://portal.caiso.com/cmri/

https://ws.caiso.com/sst/cmri/*

The ADS **6.1.0.0** client is required for TLS 1.2 https://mpp.caiso.com/ads_install Both v6 and v7 ADS APIs support TLS 1.2



TLS – How to Check Your Browser Settings



Browser settings might be managed by Group Policy

Make sure TLS 1.2 is enabled

It is okay to leave TLS 1.0 and 1.1 enabled because the client (browser) and server will always choose the highest mutually supported TLS version

Useful publicly available tool: https://www.howsmyssl.com/



TLS – Idea for Checking Your API Settings

>> openssl s client -tls1 2 -connect portalmap.caiso.com:443 CONNECTED(000001AC) ... Certificate chain 0 s:/C=U5/0=caiso/OU=Device/OU=caisoserver/CN=portalmap.caiso.com i:/C=U5/O=CAISO/OU=IT/CN=CAISO ISSUING CA 1 s:/C=US/O=CAISO/OU=IT/CN=CAISO ISSUING CA i:/C=US/O=CAISO/OU=IT/CN=CAISO Root CA 2 s:/C=US/O=CAISO/OU=IT/CN=CAISO Root CA i:/C=U5/O=CAISO/OU=IT/CN=CAISO Root CA ... subject=/C=US/O=caiso/OU=Device/OU=caisoserver/CN=portalmap.caiso.com issuer=/C=US/O=CAISO/OU=IT/CN=CAISO_ISSUING_CA $(\alpha,\beta,\beta) \in \mathbb{R}^{n}$ Acceptable client certificate CA names /C=US/O=CAISO/OU=IT/CN=CAISO ISSUING CA /C=US/O=CAISO/OU=IT/CN=CAISO Root CA ---SSL handshake has read 5009 bytes and written 138 bytes ---... SSL-Session: Protocol : TLSv1.2 : ECDHE-RSA-AES256-GCM-SHA384 Cipher Session-ID: Session-ID-ctx: Master-Key: CA4E9EC6BBE0C91959137ABBDAFDA236CBDF7BD1FD3F885CD1DE4836C8D2BA5ECCA9F58FB3FB8490DBA5BEA7AFC8E37F Key-Arg : None PSK identity: None PSK identity hint: None SRP username: None Start Time: 1519937798 Timeout : 7200 (sec) Verify return code: 19 (self signed certificate in certificate chain)

With the OpenSSL utility, it is possible to force a TLS 1.2 connection

The example on the left highlights how to connect to MAP-Stage using TLS 1.2

😂 California ISO

OMS Status Messages

The ISO is evaluating a change in OMS status messages

Currently participants retrieve OMS status messages directly without a way to know if the outage status has changed; this is inefficient and unnecessarily consumes network resources

Based on participant feedback, the ISO is evaluating a change to push OMS status messages when there is a change in outage status

Message patterns under consideration include Claim Check

UAAs (User Account Administrators) could maintain message endpoints in AIM

This same message pattern could be applied to other use cases, such as market events (for example, "Market Closed")



RAAM Decommissioning

The ISO will be decommissioning the RAAM application, also	RAAM SCP	Resource Adequacy Availability Management Standard Capacity Product
known as SCP	RAAM UI RAAM APIs	https://portal.caiso.com/scp https://portal.caiso.com/scp/services/*

Timing to be announced

Look for an update in an upcoming Customer Partnership Group meeting on 3/19



Next TUG: March 20



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