



California ISO

Systems Access Information for Market Participants

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Summary

The Systems Access Information for Market Participants document provides the necessary information to Market Participants to access the ISO systems. The information is only provided for the systems that are expected to be accessed from outside the ISO network.

The IP addresses within are only provided in case they are needed for network and firewall adjustments; these are not intended to be used for direct access to applications. Using IP addresses does not guarantee that the desired applications will be launched, since some of the addresses may not be active at all times. For accessing the applications listed in the document, Market Participants should use the corresponding URLs.

Environments Purpose and Availability

Production Environment

The Production environment hosts Production data and must meet Production service levels. For this reason, Production systems cannot be used for testing.

The standard maintenance windows for the Production environment are managed through the ISO Configuration, Change, and Release Management Process.

The Production environment is supported 24x7. Production system availability is the highest priority when support priorities compete for resources.

Production ECN Environment

The Production ECN environment is the AT&T data infrastructure that supports the ISO entities that conduct business with the ISO, and Western Electric Coordinating Council (WECC) participants that require connectivity to the WECC Operations Network (WON).

Please refer to the document at <http://www.caiso.com/Documents/ISOConnectedEntityServiceGuide.pdf> for information for obtaining an ECN connection.

MAP Stage Environment

The MAP Stage environment is used for Market and Performance (MAP) initiatives and other long-running projects that require market simulation. External access is provided during the market simulation cycles for participants to test the MAP releases prior to deployment to the Production environment. Systems will be available to participants in accordance with the market initiatives release plan posted on the ISO website at <http://www.caiso.com/informed/Pages/ReleasePlanning/Default.aspx>.

The daily maintenance windows for MAP Stage are 4:00 PM to 9:00 AM Pacific and the weekly maintenance windows are Monday 7:00 AM to Tuesday 9:00 AM. On occasion, deviations from this schedule may be necessary to support market simulation stability or testing scenarios. The necessary information will be communicated via the MAP Stage Market Participant Portal if an impact is anticipated.

MAP Stage is supported during business hours: Monday thru Friday from 9:00 AM to 6:00 PM Pacific. The ISO may escalate the support requirement for the MAP Stage environment to a Production level depending on the need.

Structured and unstructured testing will be supported in MAP Stage depending on the need for the testing exercise. The intent is to provide as Production-like behavior as possible with the healthy exercise of new functionality. The use of current trade date Production data will be preferred unless a specific scenario requires an older trade date. The data approach will be discussed in the TUG and communicated with each market simulation cycle and according to the needs of the projects.

Applications

ADS (Automated Dispatch System)

Summary

ADS is the primary communication to scheduling coordinators (SCs) in real-time. If an SC is planning to participate in the real-time market (RTM), ADS is required to receive instructions for the ISO. Ability to view all generation and all tie instructions dispatched by ADS (accepted/declined).

This requirement applies only to those SC applicants representing generation and imports.

SC applicants representing any generation or participating loads within the ISO control area or planning to import generation at the ISO control area interties must utilize ADS. ADS is a messaging system that allows for clear and unambiguous dispatch instructions to be sent from the ISO to SCs. ADS is implemented via the public internet.

References

Automated Dispatch System (ADS) at <http://www.caiso.com/participate/Pages/ApplicationAccess/Default.aspx> under California ISO applications

There may be later application information at the Release Planning location:

<http://www.caiso.com/informed/Pages/ReleasePlanning/Default.aspx>

Connectivity Information

User Interfaces (ADS Client)

Production	Production ECN	MAP Stage
http://www.caiso.com/Documents/Instructions_InstallingADSSoftware.pdf	http://www.caiso.com/Documents/Instructions_InstallingADSSoftware.pdf	http://www.caiso.com/Documents/Instructions_InstallingADSSoftware.pdf
https://mpp.caiso.com/ads_install	https://mpp.caiso.com/ads_install	https://mppmap.caiso.com/ads_install
https://adssta.caiso.com:447	https://adssta.ecn.wepex.net:447	https://adsmap.caiso.com:447

Secondary Connection Information (ADS Client)

This information is not for direct connection, and is only necessary for users with restricted access to DNS or users behind firewalls using only DNS names.

Production	MAP Stage
https://ads1.caiso.com:447 https://ads2.caiso.com:447 https://ads3.caiso.com:447 https://ads4.caiso.com:447	https://adsmap1.caiso.com:447

IP Addresses

Production	Production ECN	MAP Stage
12.200.60.98	10.112.0.122	12.200.60.164
12.200.60.99	10.112.0.123	
12.231.58.98	10.114.0.122	
12.231.58.99	10.114.0.123	

Web Services

Production	Production ECN	MAP Stage
<a href="https://adssta.caiso.com:447/ADS/<Specific Web Services URL>">https://adssta.caiso.com:447/ADS/<Specific Web Services URL>	<a href="https://adssta.ecn.wepex.net:447/ADS/<Specific Web Services URL>">https://adssta.ecn.wepex.net:447/ADS/<Specific Web Services URL>	<a href="https://adsmap.caiso.com:447/<Specific Web Services URL>">https://adsmap.caiso.com:447/<Specific Web Services URL>

Specific Web Services

Service	Release
APIWebService	
<i><Web Services URL></i> APIWebService/v6 Retrieve/Request <i>getDispatchBatchesSinceUID</i> getBatchStatus getDispatchBatch isNewTrajData getTrajectoryData submitMSSLFRequest validateDispatchBatch	Spring 2014
<i><Web Services URL></i> APIWebService/v7 Retrieve/Request getDispatchBatchesSinceUID getBatchStatus getBatchHeader getDispatchBatch isNewTrajData getTrajectoryData submitMSSLFRequest validateDispatchBatch	Fall 2014
APIResponseWebService	
<i><Web Services URL></i> APIWebService/v6 Response acceptInstruction declineInstruction partialAcceptInstruction	Spring 2014

Service	Release
<i><Web Services URL></i> APIWebService/v7 Response acceptInstruction declineInstruction partialAcceptInstruction	Fall 2014

AIM (Access and Identity Management)

Summary

The Access and Identity Management (AIM) application has been developed to improve the process for requesting, obtaining, updating and maintaining user access to ISO applications.

The following applications can be auto-provisioned from within AIM: SIBR, CMRI, MRI-S, MFRD, RAAM, CIDI, MPP, CRTMGT, and RIMS GEN.

References

Access and Identity Management (AIM) at <http://www.caiso.com/participate/Pages/ApplicationAccess/Default.aspx> under California ISO applications

There may be later application information at the Release Planning location:

<http://www.caiso.com/informed/Pages/ReleasePlanning/Default.aspx>

Connectivity Information

User Interfaces

Production
https://portal.caiso.com/aim

IP Addresses

Production
12.200.60.98
12.200.60.99
12.231.58.98
12.231.58.99

ALFS (Automated Load Forecast System)

Summary

ALFS is used to calculate short-term demand forecasts for ISO balancing authority area operations. ALFS utilizes a neural-network methodology that uses forecasted weather and conditions such as type of day to determine the ISO forecast of ISO demand.

Connectivity Information

Web Services

Production	Production ECN	MAP Stage
<a href="https://wsstas.caiso.com:4445/sst/runtime.asvc/<Specific Web Services URL>">https://wsstas.caiso.com:4445/sst/runtime.asvc/<Specific Web Services URL>	<a href="https://wsstas.ecn.wepex.net:4445/sst/runtime.asvc/<Specific Web Services URL>">https://wsstas.ecn.wepex.net:4445/sst/runtime.asvc/<Specific Web Services URL>	<a href="https://wsmap.caiso.com/sst/runtime.asvc/<Specific Web Services URL>">https://wsmap.caiso.com/sst/runtime.asvc/<Specific Web Services URL>

Specific Web Services

Service	Release
Submit5MinFSPVERForecast	
<Web Services URL>Submit5MinFSPVERForecast_ALFSv1_AP	Fall 2014
<Web Services URL>Submit5MinFSPVERForecast_ALFSv1_DocAttach_AP	
SubmitDailyFSPVERForecast	
<Web Services URL>SubmitDailyFSPVERForecast_ALFSv1_AP	Fall 2014
<Web Services URL>SubmitDailyFSPVERForecast_ALFSv1_DocAttach_AP	
SubmitExternalEntityLoadForecast	
<Web Services URL>SubmitExternalEntityLoadForecast_ALFSv1_AP	2017
<Web Services URL>SubmitExternalEntityLoadForecast_ALFSv1_DocAttach_AP	

BAAOP (Balancing Authority Area Operations Portal)

Summary

BAAOP is a market user interface that sends the following information to EIM entities

- Load forecast bias – graphical user interface (GUI)
- Dispatch instruction approve/decline – GUI
- Dynamic limits: interties – application programming interface (API)
- Intertie changes – API

Connectivity Information

User Interfaces

Production	MAP Stage
https://portaleim.caiso.com/baaop	https://portaleimmap.caiso.com/baaop

IP Addresses

Production	MAP Stage
12.200.60.130 12.200.60.131 12.231.58.130 12.231.58.131	12.200.60.212

Web Services

Production	MAP Stage
<a href="https://ws.caiso.com/sst/baaop/<Specific Web Services URL>">https://ws.caiso.com/sst/baaop/<Specific Web Services URL>	<a href="https://wsmap.caiso.com/sst/baaop/<Specific Web Services URL>">https://wsmap.caiso.com/sst/baaop/<Specific Web Services URL>

Specific Web Services

Service	Release
SubmitEIMDynamicLimitData	
<Web Services URL>SubmitEIMDynamicLimitData_RTmv2_AP	Fall 2015
<Web Services URL>SubmitEIMDynamicLimitData_RTmv2_DocAttach_AP	
SubmitEIMRTInterchangeScheduleData	
<Web Services URL>SubmitEIMRTInterchangeScheduleData_RTmv2_AP	Fall 2014
<Web Services URL>SubmitEIMRTInterchangeScheduleData_RTmv2_DocAttach_AP	

BSAP (Base Schedule Aggregation Portal)

Summary

BSAP is used for the Energy Imbalance Market (EIM) to submit Base Schedules for both Participating and Non-Participating resources outside the CAISO Control Area with a neighboring Balancing Authority Area (BAA).

References

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

http://www.caiso.com/Documents/SIBR_BSAP_SC_UserGuide.pdf

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

There may be later application information at the Release Planning location:

<http://www.caiso.com/informed/Pages/ReleasePlanning/Default.aspx>

Connectivity Information

User Interfaces

Production	MAP Stage	Sandbox
https://portaleim.aiso.com/bsap	https://portaleimmap.aiso.com/bsap	https://sandbox.aiso.com/bsap

IP Addresses

Production	MAP Stage	Sandbox
12.200.60.130 12.200.60.131 12.231.58.130 12.231.58.131	12.200.60.212	12.200.60.162

Web Services

Production	MAP Stage	Sandbox
<a href="https://ws.aiso.com/sst/bsap/<Specific Web Services URL>">https://ws.aiso.com/sst/bsap/<Specific Web Services URL>	<a href="https://wsmap.aiso.com/sst/bsap/<Specific Web Services URL>">https://wsmap.aiso.com/sst/bsap/<Specific Web Services URL>	<a href="https://wssandbox.aiso.com:4445/sst/bsap/<Specific Web Services URL>">https://wssandbox.aiso.com:4445/sst/bsap/<Specific Web Services URL>

Specific Web Services

Service	Release
RetrieveBalancingTestResults	
<Web Services URL>RetrieveBalancingTestResults_BSAPv1_AP	Fall 2014
<Web Services URL>RetrieveBalancingTestResults_BSAPv1_DocAttach_AP	
RetrieveBaseScheduleResults	
<Web Services URL>RetrieveBaseScheduleResults_BSAPv1_AP	Fall 2014
<Web Services URL>RetrieveBaseScheduleResults_BSAPv1_DocAttach_AP	
SubmitBaseSchedule	
<Web Services URL>SubmitBaseSchedule_BSAPv1_AP	Fall 2014
<Web Services URL>SubmitBaseSchedule_BSAPv1_DocAttach_AP	

CIRA (Customer Interface for Resource Adequacy)

Summary

The CIRA system is used to manage the ISO's Reliability Requirements program.

References

Customer Interface for Resource Adequacy (CIRA) at <http://www.caiso.com/participate/Pages/ApplicationAccess/Default.aspx> under California ISO applications

There may be later application information at the Release Planning location:

<http://www.caiso.com/informed/Pages/ReleasePlanning/Default.aspx>

Connectivity Information

User Interfaces

Production	Production ECN	MAP Stage
https://portal.caiso.com/cira	https://portal.ecn.wepex.net/cira	https://portalmap.caiso.com/cira

IP Addresses

Production	Production ECN	MAP Stage
12.200.60.98	10.112.0.122	12.200.60.164
12.200.60.99	10.112.0.123	
12.231.58.98	10.114.0.122	
12.231.58.99	10.114.0.123	

Web Services

Production	MAP Stage
<a href="https://ws.caiso.com/sst/cira/<Specific Web Services URL>">https://ws.caiso.com/sst/cira/<Specific Web Services URL>	<a href="https://wsmap.caiso.com/sst/cira/<Specific Web Services URL>">https://wsmap.caiso.com/sst/cira/<Specific Web Services URL>

Specific Web Services

Service	Release
SubmitCSPOffers	
<Web Services URL>SubmitCSPOffers_CIRAv1_AP	RSI/CPM
<Web Services URL>SubmitCSPOffers_CIRAv1_DocAttach_AP	
RetrieveCSPOffers	
<Web Services URL>RetrieveCSPOffers_CIRAv1_AP	RSI/CPM
<Web Services URL>RetrieveCSPOffers_CIRAv1_DocAttach_AP	
RetrieveResourceAdequacyCapacityData	
<Web Services URL>RetrieveResourceAdequacyCapacityData_CIRAv1_AP	2016
<Web Services URL>RetrieveResourceAdequacyCapacityData_CIRAv1_DocAttach_AP	
WithdrawCSPOffers	
<Web Services URL>WithdrawCSPOffers_CIRAv1_AP	RSI/CPM
<Web Services URL>WithdrawCSPOffers_CIRAv1_DocAttach_AP	

CMRI (Customer Market Results Interface)

Summary

CMRI is a reporting interface that contains private market information resulting from the ISO and EIM market processes: MPM, IFM, RUC, HASP, and Real-Time. This includes schedules and awards, resource-specific prices, default and mitigated bids, unit commitments, instructions, EIM base schedules, and EIM test results.

References

Customer Market Results Interface (CMRI) at <http://www.caiso.com/participate/Pages/ApplicationAccess/Default.aspx> under California ISO applications

There may be later application information at the Release Planning location:

<http://www.caiso.com/informed/Pages/ReleasePlanning/Default.aspx>

Connectivity Information

User Interfaces

Production	Production ECN	MAP Stage
https://portal.caiso.com/cmri	https://portal.ecn.wepex.net/cmri	https://portalmap.caiso.com/cmri

IP Addresses

Production	Production ECN	MAP Stage
12.200.60.98	10.112.0.122	12.200.60.164
12.200.60.99	10.112.0.123	
12.231.58.98	10.114.0.122	
12.231.58.99	10.114.0.123	

Web Services

Production	Production ECN	MAP Stage
<a href="https://ws.caiso.com/sst/cmri/<Specific Web Services URL>">https://ws.caiso.com/sst/cmri/<Specific Web Services URL>	<a href="https://ws.ecn.wepex.net/sst/cmri/<Specific Web Services URL>">https://ws.ecn.wepex.net/sst/cmri/<Specific Web Services URL>	<a href="https://wsmap.caiso.com/sst/cmri/<Specific Web Services URL>">https://wsmap.caiso.com/sst/cmri/<Specific Web Services URL>

Specific Web Services

Service	Release
RetrieveActualLimitationValues	
<Web Services URL>RetrieveActualLimitationValues_CMRIv1_AP	Spring 2018
<Web Services URL>RetrieveActualLimitationValues_CMRIv1_DocAttach_AP	
RetrieveCMRIInterTieResourceTransactionID	
<Web Services URL>RetrieveCMRIInterTieResourceTransactionID_CMRIv1_AP	Fall 2014
<Web Services URL>RetrieveCMRIInterTieResourceTransactionID_CMRIv1_DocAttach_AP	
RetrieveConformedDispatchNotice	
<Web Services URL>RetrieveConformedDispatchNotice_CMRIv1_AP	Fall 2013 GMT
<Web Services URL>RetrieveConformedDispatchNotice_CMRIv1_DocAttach_AP	
RetrieveContractUsage	
<Web Services URL>RetrieveContractUsage_CMRIv2_AP	Fall 2013 GMT
<Web Services URL>RetrieveContractUsage_CMRIv2_DocAttach_AP	
RetrieveConvergenceBidAwards	
<Web Services URL>RetrieveConvergenceBidAwards_CMRIv1_AP	Fall 2013 GMT
<Web Services URL>RetrieveConvergenceBidAwards_CMRIv1_DocAttach_AP	
<Web Services URL>RetrieveConvergenceBidAwards_CMRIv2_AP	Fall 2014
<Web Services URL>RetrieveConvergenceBidAwards_CMRIv2_DocAttach_AP	
RetrieveCRRAdjustmentConstraints	
<Web Services URL>RetrieveCRRAdjustmentConstraints_CMRIv1_AP	Fall 2013 GMT
<Web Services URL>RetrieveCRRAdjustmentConstraints_CMRIv1_DocAttach_AP	
RetrieveCRRAdjustmentFlowImpact	
<Web Services URL>RetrieveCRRAdjustmentFlowImpact_CMRIv1_AP	Fall 2013 GMT
<Web Services URL>RetrieveCRRAdjustmentFlowImpact_CMRIv1_DocAttach_AP	
RetrieveCRRAdjustmentPrices	
<Web Services URL>RetrieveCRRAdjustmentPrices_CMRIv1_AP	Fall 2013 GMT
<Web Services URL>RetrieveCRRAdjustmentPrices_CMRIv1_DocAttach_AP	
RetrieveDailyElectricityPriceIndex	
<Web Services URL>RetrieveDailyElectricityPriceIndex_CMRIv1_AP	Fall 2017 - BREB
<Web Services URL>RetrieveDailyElectricityPriceIndex_CMRIv1_DocAttach_AP	

Service	Release
RetrieveDefaultBidCurves	
<Web Services URL>RetrieveDefaultBidCurves_CMRIv1_AP	Fall 2013
<Web Services URL>RetrieveDefaultBidCurves_CMRIv1_DocAttach_AP	GMT
RetrieveDefaultRMRCosts	
<Web Services URL>RetrieveDefaultRMRCosts_CMRIv1_AP	Fall 2013
<Web Services URL>RetrieveDefaultRMRCosts_CMRIv1_DocAttach_AP	GMT
RetrieveEIMBidCapacityPercentage	
<Web Services URL>RetrieveEIMBidCapacityPercentage_CMRIv1_AP	Fall 2015
<Web Services URL>RetrieveEIMBidCapacityPercentage_CMRIv1_DocAttach_AP	
RetrieveEIMEntityCMRIInterTieResourceTransactionID	
<Web Services URL>RetrieveEIMEntityCMRIInterTieResourceTransactionID_CMRIv1_AP	Fall 2014
<Web Services URL>RetrieveEIMEntityCMRIInterTieResourceTransactionID_CMRIv1_DocAttach_AP	
RetrieveEIMEntityMarketBaseSchedules	
<Web Services URL>RetrieveEIMEntityMarketBaseSchedules_CMRIv1_AP	Fall 2015
<Web Services URL>RetrieveEIMEntityMarketBaseSchedules_CMRIv1_DocAttach_AP	
RetrieveEIMEntityTransferLimit	
<Web Services URL>RetrieveEIMEntityTransferLimit_CMRIv1_AP	Fall 2015
<Web Services URL>RetrieveEIMEntityTransferLimit_CMRIv1_DocAttach_AP	
RetrieveEIMInterchangeScheduleData	
<Web Services URL>RetrieveEIMInterchangeScheduleData_CMRIv1_AP	Fall 2016
<Web Services URL>RetrieveEIMInterchangeScheduleData_CMRIv1_DocAttach_AP	
RetrieveEIMTestResults	
<Web Services URL>RetrieveEIMTestResults_CMRIv1_AP	Fall 2014
<Web Services URL>RetrieveEIMTestResults_CMRIv1_DocAttach_AP	
<Web Services URL>RetrieveEIMTestResults_CMRIv2_AP	Fall 2015
<Web Services URL>RetrieveEIMTestResults_CMRIv2_DocAttach_AP	
RetrieveEIMTransfer	
<Web Services URL>RetrieveEIMTransfer_CMRIv1_AP	Fall 2014
<Web Services URL>RetrieveEIMTransfer_CMRIv1_DocAttach_AP	

Service	Release
RetrieveEIMTransferLimit	
<Web Services URL>RetrieveEIMTransferLimit_CMRIv1_AP	Fall 2015
<Web Services URL>RetrieveEIMTransferLimit_CMRIv1_DocAttach_AP	
RetrieveEIRForecast	
<Web Services URL>RetrieveEIRForecast_CMRIv1_AP	2016
<Web Services URL>RetrieveEIRForecast_CMRIv1_DocAttach_AP	
RetrieveElectricityPriceIndex	
<Web Services URL>RetrieveElectricityPriceIndex_CMRIv1_AP	Fall 2016
<Web Services URL>RetrieveElectricityPriceIndex_CMRIv1_DocAttach_AP	
RetrieveExpectedEnergy	
<Web Services URL>RetrieveExpectedEnergy_CMRIv1_AP	Fall 2013 GMT
<Web Services URL>RetrieveExpectedEnergy_CMRIv1_DocAttach_AP	
<Web Services URL>RetrieveExpectedEnergy_CMRIv2_AP	Spring 2014
<Web Services URL>RetrieveExpectedEnergy_CMRIv2_DocAttach_AP	
RetrieveExpectedEnergyAllocationDetails	
<Web Services URL>RetrieveExpectedEnergyAllocationDetails_CMRIv2_AP	Spring 2014
<Web Services URL>RetrieveExpectedEnergyAllocationDetails_CMRIv2_DocAttach_AP	
<Web Services URL>RetrieveExpectedEnergyAllocationDetails_CMRIv3_AP	Spring 2016
<Web Services URL>RetrieveExpectedEnergyAllocationDetails_CMRIv3_DocAttach_AP	
RetrieveExternalDefaultCommitmentCost	
<Web Services URL>RetrieveExternalDefaultCommitmentCost_CMRIv1_AP	2017 - EIM 2017
<Web Services URL>RetrieveExternalDefaultCommitmentCost_CMRIv1_DocAttach_AP	
RetrieveFinallyQualifiedLoadFollowingCapacity	
<Web Services URL>RetrieveFinallyQualifiedLoadFollowingCapacity_CMRIv1_AP	Fall 2013 GMT
<Web Services URL>RetrieveFinallyQualifiedLoadFollowingCapacity_CMRIv1_DocAttach_AP	
RetrieveFlexRampCapacity	
<Web Services URL>RetrieveFlexRampCapacity_CMRIv1_AP	Fall 2013 GMT
<Web Services URL>RetrieveFlexRampCapacity_CMRIv1_DocAttach_AP	
RetrieveGasBurnResourceData	
<Web Services URL>RetrieveGasBurnResourceData_CMRIv1_AP	2017 - Gas Burn
<Web Services URL>RetrieveGasBurnResourceData_CMRIv1_DocAttach_AP	

Service	Release
RetrieveGasBurnSummaryData	
<Web Services URL>RetrieveGasBurnSummaryData_CMRIv1_AP	2017 - Gas Burn
<Web Services URL>RetrieveGasBurnSummaryData_CMRIv1_DocAttach_AP	
RetrieveGreenHouseGasCapData	
<Web Services URL>RetrieveGreenHouseGasCapData_CMRIv1_AP	Fall 2016
<Web Services URL>RetrieveGreenHouseGasCapData_CMRIv1_DocAttach_AP	
RetrieveISOCommitmentCostDetails	
<Web Services URL>RetrieveISOCommitmentCostDetails_CMRIv1_AP	Fall 2013 GMT
<Web Services URL>RetrieveISOCommitmentCostDetails_CMRIv1_DocAttach_AP	
<Web Services URL>RetrieveISOCommitmentCostDetails_CMRIv2_AP	Spring 2014
<Web Services URL>RetrieveISOCommitmentCostDetails_CMRIv2_DocAttach_AP	
RetrieveLoadBaseSchedules	
<Web Services URL>RetrieveLoadBaseSchedules_CMRIv1_AP	Fall 2014
<Web Services URL>RetrieveLoadBaseSchedules_CMRIv1_DocAttach_AP	
RetrieveMarketAwards	
<Web Services URL>RetrieveMarketAwards_CMRIv3_AP	Fall 2014
<Web Services URL>RetrieveMarketAwards_CMRIv3_DocAttach_AP	
<Web Services URL>RetrieveMarketAwards_CMRIv4_AP	Fall 2016
<Web Services URL>RetrieveMarketAwards_CMRIv4_DocAttach_AP	
RetrieveMarketBaseSchedules	
<Web Services URL>RetrieveMarketBaseSchedules_CMRIv1_AP	Fall 2014
<Web Services URL>RetrieveMarketBaseSchedules_CMRIv1_DocAttach_AP	
RetrieveMarketForecast	
<Web Services URL>RetrieveMarketForecast_CMRIv1_AP	Spring 2014
<Web Services URL>RetrieveMarketForecast_CMRIv1_DocAttach_AP	
RetrieveMarketSchedules	
<Web Services URL>RetrieveMarketSchedules_CMRIv2_AP	Fall 2014
<Web Services URL>RetrieveMarketSchedules_CMRIv2_DocAttach_AP	
<Web Services URL>RetrieveMarketSchedules_CMRIv3_AP	Fall 2016
<Web Services URL>RetrieveMarketSchedules_CMRIv3_DocAttach_AP	

Service	Release
RetrieveMPMResults	
<Web Services URL>RetrieveMPMResults_CMRIv2_AP	Fall 2013
<Web Services URL>RetrieveMPMResults_CMRIv2_DocAttach_AP	GMT
<Web Services URL>RetrieveMPMResults_CMRIv3_AP	Fall 2016
<Web Services URL>RetrieveMPMResults_CMRIv3_DocAttach_AP	
RetrieveNonDispatchableTimeRanges	
<Web Services URL>RetrieveNonDispatchableTimeRanges_CMRIv1_AP	Spring
<Web Services URL>RetrieveNonDispatchableTimeRanges_CMRIv1_DocAttach_AP	2013
RetrieveResourceLevelMovement	
<Web Services URL>RetrieveResourceLevelMovement_CMRIv1_AP	Fall 2016
<Web Services URL>RetrieveResourceLevelMovement_CMRIv1_DocAttach_AP	
RetrieveResourceMovementPoint	
<Web Services URL>RetrieveResourceMovementPoint_CMRIv1_AP	Fall 2016
<Web Services URL>RetrieveResourceMovementPoint_CMRIv1_DocAttach_AP	
RetrieveResourceOpportunityCost	
<Web Services URL>RetrieveResourceOpportunityCost_CMRIv1_AP	Spring
<Web Services URL>RetrieveResourceOpportunityCost_CMRIv1_DocAttach_AP	2018
RetrieveRMRDispatches	
<Web Services URL>RetrieveRMRDispatches_CMRIv1_AP	Fall 2013
<Web Services URL>RetrieveRMRDispatches_CMRIv1_DocAttach_AP	GMT
RetrieveSchedulePrices	
<Web Services URL>RetrieveSchedulePrices_CMRIv3_AP	Fall 2014
<Web Services URL>RetrieveSchedulePrices_CMRIv3_DocAttach_AP	
<Web Services URL>RetrieveSchedulePrices_CMRIv4_AP	Fall 2016
<Web Services URL>RetrieveSchedulePrices_CMRIv4_DocAttach_AP	
RetrieveStartUpShutDownInstructions	
<Web Services URL>RetrieveStartUpShutDownInstructions_CMRIv1_AP	Fall 2013
<Web Services URL>RetrieveStartUpShutDownInstructions_CMRIv1_DocAttach_AP	GMT
RetrieveTwoDayMSSALoadForecast	
<Web Services URL>RetrieveTwoDayMSSALoadForecast_CMRIv1_AP	Fall 2013
<Web Services URL>RetrieveTwoDayMSSALoadForecast_CMRIv1_DocAttach_AP	GMT

Service	Release
RetrieveUnitCommitments	
<Web Services URL>RetrieveUnitCommitments_CMRIv1_AP	Fall 2013
<Web Services URL>RetrieveUnitCommitments_CMRIv1_DocAttach_AP	GMT

CRR (Congestion Revenue Rights)

Summary

In order to allow Market Participants (MPs) to obtain Congestion Revenue Rights (CRR), there are necessary activities/tasks that must be completed in a timely manner for participation in these CRR related processes (allocations and auctions). The completion of these activities/tasks by all MPs is a necessary step for the successful kick-off of the first CRR production allocation and auction processes.

-CRR Registration, including submitted of application and forms (CRR Entity Agreement, Affiliate Form, Application Access Request Form and Training Waiver Form).

-Data Template Submittal (including Source/Sink verification, MSS selection and other data items), and

Historical Load data submittal for allocation participation.

This is the application used for the CRR auctions

References

Congestion Revenue Rights (CRR) at <http://www.caiso.com/participate/Pages/ApplicationAccess/Default.aspx> under California ISO applications

There may be later application information at the Release Planning location:

<http://www.caiso.com/informed/Pages/ReleasePlanning/Default.aspx>

Connectivity Information

User Interfaces

Production	MAP Stage
https://portal.aiso.com/crr	https://portalmap.aiso.com/crr

IP Addresses

Production	MAP Stage
12.200.60.98 12.200.60.99 12.231.58.98 12.231.58.99	12.200.60.164

DRRS (Demand Response Registration System)

Summary

DRRS allows users to create large volumes of locations and aggregate locations for participation in the ISO's demand response program.

References

Demand Response System (DRS) and Demand Response Registration System (DRRS) at <http://www.caiso.com/participate/Pages/ApplicationAccess/Default.aspx> under California ISO applications

There may be later application information at the Release Planning location:

<http://www.caiso.com/informed/Pages/ReleasePlanning/Default.aspx>

Connectivity Information

User Interfaces

Production	MAP Stage
https://portal.caiso.com/drrs	https://portalmap.caiso.com/drrs

IP Addresses

Production	MAP Stage
12.200.60.98 12.200.60.99 12.231.58.98 12.231.58.99	12.200.60.164

Web Services

Production	MAP Stage
<a href="https://ws.caiso.com/sst/drrs/<Specific Web Services URL>">https://ws.caiso.com/sst/drrs/<Specific Web Services URL>	<a href="https://wsmap.caiso.com/sst/drrs/<Specific Web Services URL>">https://wsmap.caiso.com/sst/drrs/<Specific Web Services URL>

Specific Web Services

Service	Release
RetrieveBatchValidationStatus	
<Web Services URL>RetrieveBatchValidationStatus_DRRSv1_AP	DRRE 2016
<Web Services URL>RetrieveBatchValidationStatus_DRRSv1_DocAttach_AP	
RetrieveDRLocations	
<Web Services URL>RetrieveDRLocations_DRRSv1_AP	DRRE 2016
<Web Services URL>RetrieveDRLocations_DRRSv1_DocAttach_AP	
RetrieveDRRegistrations	
<Web Services URL>RetrieveDRRegistrations_DRRSv1_AP	DRRE 2016
<Web Services URL>RetrieveDRRegistrations_DRRSv1_DocAttach_AP	
SubmitDRLocations	
<Web Services URL>SubmitDRLocations_DRRSv1_AP	DRRE 2016
<Web Services URL>SubmitDRLocations_DRRSv1_DocAttach_AP	
SubmitDRRegistrations	
<Web Services URL>SubmitDRRegistrations_DRRSv1_AP	DRRE 2016
<Web Services URL>SubmitDRRegistrations_DRRSv1_DocAttach_AP	

DRS (Demand Response System)

Summary

Collect, approve and report on information and measurement data for Proxy Demand Resources (PDR) & Reliability Demand Response Resources (RDRR).

References

Demand Response System (DRS) and Demand Response Registration System (DRRS) at <http://www.caiso.com/participate/Pages/ApplicationAccess/Default.aspx> under California ISO applications

There may be later application information at the Release Planning location:

<http://www.caiso.com/informed/Pages/ReleasePlanning/Default.aspx>

Connectivity Information

User Interfaces

Production	MAP Stage
https://portal.caiso.com/sbm	https://portalmap.caiso.com/sbm

IP Addresses

Production	MAP Stage
12.200.60.98 12.200.60.99 12.231.58.98 12.231.58.99	12.200.60.164

Web Services

Production	MAP Stage
<a href="https://wsstas.caiso.com:4445/sst/runtime.asvc/<Specific Web Services URL>">https://wsstas.caiso.com:4445/sst/runtime.asvc/<Specific Web Services URL>	<a href="https://wsmap.caiso.com/sst/runtime.asvc/<Specific Web Services URL>">https://wsmap.caiso.com/sst/runtime.asvc/<Specific Web Services URL>

Specific Web Services

Service	Release
RetrievePDRAggregatedData	
<Web Services URL>RetrievePDRAggregatedData_DRSv20100301_AP	DRS R2
<Web Services URL>RetrievePDRAggregatedData_DRSv20100301_DocAttach_AP	
RetrievePDRMeterData	
<Web Services URL>RetrievePDRMeterData_DRS_AP	DRS R1
<Web Services URL>RetrievePDRMeterData_DRS_DocAttach_AP	
<Web Services URL>RetrievePDRMeterData_DRSv20100301_AP	DRS R2
<Web Services URL>RetrievePDRMeterData_DRSv20100301_DocAttach_AP	
SubmitPDRLoadMeterData	
<Web Services URL>SubmitPDRLoadMeterData_DRS_AP	DRS R1
<Web Services URL>SubmitPDRLoadMeterData_DRS_DocAttach_AP	
<Web Services URL>SubmitPDRLoadMeterData_DRSv20100301_AP	DRS R2
<Web Services URL>SubmitPDRLoadMeterData_DRSv20100301_DocAttach_AP	
SubmitPDRMeterData	
<Web Services URL>SubmitPDRMeterData_DRSv20111001_AP	DRS R3
<Web Services URL>SubmitPDRMeterData_DRSv20111001_DocAttach_AP	

Master File

Summary

Master File database contains static data that reflects the operating characteristics of resources that participate in California ISO Markets. Periodically, Scheduling Coordinators may need to make changes to specific operating parameters and may do so by submitting their data changes via Generator. Resource Data Template (GRDT or RDT) or Intertie Resource Data Template (IRDT or RDT). This user guide explains how to use the Master File User Interface for submitting these data changes, viewing and downloading approved RDT data for selected effective trade date, and viewing/downloading a list of resources with upcoming approved changes for specified date range. The purpose of the Master File is to hold static reference data that is used by many key market applications that operate at the ISO

References

Master File at <http://www.caiso.com/participate/Pages/ApplicationAccess/Default.aspx> under California ISO applications

There may be later application information at the Release Planning location:

<http://www.caiso.com/informed/Pages/ReleasePlanning/Default.aspx>

Connectivity Information

User Interfaces

Production	Production ECN	MAP Stage
https://portal.caiso.com/mf	https://portal.ecn.wepex.net/mf	https://portalmap.caiso.com/mf

IP Addresses

Production	Production ECN	MAP Stage
12.200.60.98	10.112.0.122	12.200.60.164
12.200.60.99	10.112.0.123	
12.231.58.98	10.114.0.122	
12.231.58.99	10.114.0.123	

Web Services

Production	Production ECN	MAP Stage
<a href="https://wsstas.caiso.com:4445/sst/runtime.asvc/<Specific Web Services URL>">https://wsstas.caiso.com:4445/sst/runtime.asvc/<Specific Web Services URL>	<a href="https://wsstas.ecn.wepex.net:4445/sst/runtime.asvc/<Specific Web Services URL>">https://wsstas.ecn.wepex.net:4445/sst/runtime.asvc/<Specific Web Services URL>	<a href="https://wsmap.caiso.com/sst/runtime.asvc/<Specific Web Services URL>">https://wsmap.caiso.com/sst/runtime.asvc/<Specific Web Services URL>

Specific Web Services

Service	Minor Version	RDT	Release
RetrieveApprovedResourceChanges			
<Web Services URL>RetrieveApprovedResourceChanges_MFRD_AP			Go Live
RetrieveGeneratorRDT			
<Web Services URL>RetrieveGeneratorRDT_MFRDv3_AP	20151001	GRDT	Fall 2015
<Web Services URL>RetrieveGeneratorRDT_MFRDv3_DocAttach_AP		10.0	
<Web Services URL>RetrieveGeneratorRDT_MFRDv4_AP	20161001	GRDT	Fall 2016
<Web Services URL>RetrieveGeneratorRDT_MFRDv4_DocAttach_AP		11.0	
<Web Services URL>RetrieveGeneratorRDT_MFRDv4_AP	20180201	GRDT	Winter 2017
<Web Services URL>RetrieveGeneratorRDT_MFRDv4_DocAttach_AP		11.0	
<Web Services URL>RetrieveGeneratorRDT_MFRDvX_AP	20180501	GRDT	Spring 2018
<Web Services URL>RetrieveGeneratorRDT_MFRDvX_DocAttach_AP		12.0	
RetrieveIntertieRDT			
<Web Services URL>RetrieveIntertieRDT_MFRDv20121001_AP		IRDT	Fall 2012
<Web Services URL>RetrieveIntertieRDT_MFRDv20121001_DocAttach_AP		4.0	
<Web Services URL>RetrieveIntertieRDT_MFRDv1_AP		IRDT	Spring 2014
<Web Services URL>RetrieveIntertieRDT_MFRDv1_DocAttach_AP		5.1.0	
RetrieveRDTSubmissionStatus			
<Web Services URL>RetrieveRDTSubmissionStatus_MFRD_AP			Go Live
SubmitGeneratorRDT			
<Web Services URL>SubmitGeneratorRDT_MFRDv3_AP	20151001	GRDT	Fall 2015
<Web Services URL>SubmitGeneratorRDT_MFRDv3_DocAttach_AP		10.0	
<Web Services URL>SubmitGeneratorRDT_MFRDv4_AP	20161001	GRDT	Fall 2016
<Web Services URL>SubmitGeneratorRDT_MFRDv4_DocAttach_AP		11.0	
<Web Services URL>SubmitGeneratorRDT_MFRDv4_AP	20180201	GRDT	Winter 2017
<Web Services URL>SubmitGeneratorRDT_MFRDv4_DocAttach_AP		11.0	
<Web Services URL>SubmitGeneratorRDT_MFRDvX_AP	20180501	GRDT	Spring 2018
<Web Services URL>SubmitGeneratorRDT_MFRDvX_DocAttach_AP		12.0	

Service	Minor Version	RDT	Release
SubmitIntertierRDT			
<Web Services URL>SubmitIntertierRDT_MFRDv20121001_AP <Web Services URL>SubmitIntertierRDT_MFRDv20121001_DocAttach_AP		IRDT 4.0	Fall 2012
<Web Services URL>SubmitIntertierRDT_MFRDv1_AP <Web Services URL>SubmitIntertierRDT_MFRDv1_DocAttach_AP		IRDT 5.1.0	Spring 2014

MPP

Summary

The California ISO Market Participant Portal is the centralized access point for secure applications and business critical information.

References

Market Participant Portal (MPP) at <http://www.caiso.com/participate/Pages/ApplicationAccess/Default.aspx> under California ISO applications

There may be later application information at the Release Planning location:

<http://www.caiso.com/informed/Pages/ReleasePlanning/Default.aspx>

Connectivity Information

User Interfaces

Production	MAP Stage
https://mpp.caiso.com	https://mppmap.caiso.com

IP Addresses

Production	MAP Stage
12.200.60.114 12.200.60.115 12.231.58.114 12.231.58.115	12.200.60.164

OASIS (Open Access Same-Time Information System)

Summary

On OASIS you will find real-time data related to the ISO transmission system and its Market, such as system demand forecasts, transmission outage and capacity status, market prices and market result data.

References

Open Access Same-Time Information System (OASIS) at <http://www.caiso.com/participate/Pages/ApplicationAccess/Default.aspx> under California ISO applications

The latest Interface Specification information is at <http://www.caiso.com/Documents/Interface%20Specification>

There may be later application information, including project-related report URL releases, at the Release Planning location: <http://www.caiso.com/informed/Pages/ReleasePlanning/Default.aspx>

Connectivity Information

User Interfaces

Production	MAP Stage
http://oasis.caiso.com	http://oasismap.caiso.com

IP Addresses

Production	MAP Stage
12.200.60.66 12.200.60.67 12.231.58.66 12.231.58.67	12.200.60.164

Web Services

Production	MAP Stage
<a href="http://oasis.caiso.com/oasisapi/<Specific Web Services URL>">http://oasis.caiso.com/oasisapi/<Specific Web Services URL>	<a href="http://oasismap.caiso.com/oasisapi/<Specific Web Services URL>">http://oasismap.caiso.com/oasisapi/<Specific Web Services URL>

Specific Web Services

Service		Release
SingleZip		
<Web Services URL>SingleZip (version=1)		Fall 2013 GMT
<Web Services URL>SingleZip (version=2)		Fall 2014
GroupZip		
<Web Services URL>GroupZip (version=1)		Spring 2014
<Web Services URL>GroupZip (version=2)		Fall 2014
<Web Services URL>GroupZip (version=3)		January 2015

OMS (Outage Management System)

Summary

Report and manage generation and transmission outages through this web based system, which replaced SLIC effective February 27, 2015.

References

Outage Management System (OMS) at <http://www.caiso.com/participate/Pages/ApplicationAccess/Default.aspx> under California ISO applications

There may be later application information at the Release Planning location:

<http://www.caiso.com/informed/Pages/ReleasePlanning/Default.aspx>

Connectivity Information

User Interfaces

Production	Production ECN	MAP Stage
https://idp.caiso.com/weboms	https://idp.ecn.wepex.net/weboms	https://idpmap.caiso.com:4443/weboms

IP Addresses

Production	Production ECN	MAP Stage
12.200.60.52	10.112.0.92	12.200.60.221
12.200.60.53	10.112.0.93	
12.231.58.52	10.114.0.92	
12.231.58.53	10.114.0.93	

Web Services

Production	Production ECN	MAP Stage
<a href="https://ws.caiso.com/sst/weboms/<Specific Web Services URL>">https://ws.caiso.com/sst/weboms/<Specific Web Services URL>	<a href="https://ws.ecn.wepex.net/sst/weboms/<Specific Web Services URL>">https://ws.ecn.wepex.net/sst/weboms/<Specific Web Services URL>	<a href="https://wsmap.caiso.com/sst/weboms/<Specific Web Services URL>">https://wsmap.caiso.com/sst/weboms/<Specific Web Services URL>

Specific Web Services

Service	Release
AcknowledgeOutageWarning	
<Web Services URL>AcknowledgeOutageWarning_OMSv1_AP	Fall 2014
RetrieveAvailability	
<Web Services URL>RetrieveAvailability_OMSv1_AP	Fall 2014
<Web Services URL>RetrieveAvailability_OMSv1_DocAttach_AP	
RetrieveFacilityOutageDefinition	
<Web Services URL>RetrieveFacilityOutageDefinition_OMSv1_AP	Fall 2014
<Web Services URL>RetrieveFacilityOutageDefinition_OMSv1_DocAttach_AP	
RetrieveResourceOutage	
<Web Services URL>RetrieveResourceOutage_OMSv1_AP	Fall 2014
<Web Services URL>RetrieveResourceOutage_OMSv1_DocAttach_AP	
<Web Services URL>RetrieveResourceOutage_OMSv2_AP	Early 2016
<Web Services URL>RetrieveResourceOutage_OMSv2_DocAttach_AP	
RetrieveResourceOutageChangeRequest	
<Web Services URL>RetrieveResourceOutageChangeRequest_OMSv1_AP	Fall 2014
<Web Services URL>RetrieveResourceOutageChangeRequest_OMSv1_DocAttach_AP	
<Web Services URL>RetrieveResourceOutageChangeRequest_OMSv2_AP	Early 2016
<Web Services URL>RetrieveResourceOutageChangeRequest_OMSv2_DocAttach_AP	
RetrieveTransmissionOutage	
<Web Services URL>RetrieveTransmissionOutage_OMSv1_AP	Fall 2014
<Web Services URL>RetrieveTransmissionOutage_OMSv1_DocAttach_AP	
<Web Services URL>RetrieveTransmissionOutage_OMSv2_AP	Fall 2016
<Web Services URL>RetrieveTransmissionOutage_OMSv2_DocAttach_AP	
RetrieveTransmissionOutageChangeRequest	
<Web Services URL>RetrieveTransmissionOutageChangeRequest_OMSv1_AP	Fall 2014
<Web Services URL>RetrieveTransmissionOutageChangeRequest_OMSv1_DocAttach_AP	
<Web Services URL>RetrieveTransmissionOutageChangeRequest_OMSv2_AP	Fall 2016
<Web Services URL>RetrieveTransmissionOutageChangeRequest_OMSv2_DocAttach_AP	

Service	Release
SubmitResourceOutage	
<Web Services URL>SubmitResourceOutage_OMSv1_AP	Fall 2014
<Web Services URL>SubmitResourceOutage_OMSv1_DocAttach_AP	
<Web Services URL>SubmitResourceOutage_OMSv2_AP	Early 2016
<Web Services URL>SubmitResourceOutage_OMSv2_DocAttach_AP	
SubmitResourceOutageChangeRequest	
<Web Services URL>SubmitResourceOutageChangeRequest_OMSv1_AP	Fall 2014
<Web Services URL>SubmitResourceOutageChangeRequest_OMSv1_DocAttach_AP	
<Web Services URL>SubmitResourceOutageChangeRequest_OMSv2_AP	Early 2016
<Web Services URL>SubmitResourceOutageChangeRequest_OMSv2_DocAttach_AP	
SubmitTransmissionOutage	
<Web Services URL>SubmitTransmissionOutage_OMSv1_AP	Fall 2014
<Web Services URL>SubmitTransmissionOutage_OMSv1_DocAttach_AP	
<Web Services URL>SubmitTransmissionOutage_OMSv2_AP	Spring 2017
<Web Services URL>SubmitTransmissionOutage_OMSv2_DocAttach_AP	
SubmitTransmissionOutageChangeRequest	
<Web Services URL>SubmitTransmissionOutageChangeRequest_OMSv1_AP	Fall 2014
<Web Services URL>SubmitTransmissionOutageChangeRequest_OMSv1_DocAttach_AP	
<Web Services URL>SubmitTransmissionOutageChangeRequest_OMSv2_AP	Spring 2017
<Web Services URL>SubmitTransmissionOutageChangeRequest_OMSv2_DocAttach_AP	
WithdrawOutageChangeRequest	
<Web Services URL>WithdrawOutageChangeRequest_OMSv1_AP	Fall 2014

RIMS (Resource Interconnection Management System)

Summary

RIMS allows ICs (along with the appropriate PTO and ISO) to track their project's process through the study and LGIA processes.

References

Resource Interconnection Management System (RIMS) at <http://www.caiso.com/participate/Pages/ApplicationAccess/Default.aspx> under California ISO applications

There may be later application information at the Release Planning location:

<http://www.caiso.com/informed/Pages/ReleasePlanning/Default.aspx>

Connectivity Information

User Interfaces

Production	Production ECN
https://portal.caiso.com/rims	https://portal.ecn.wepex.net/rims

IP Addresses

Production	Production ECN
12.200.60.98	10.112.0.122
12.200.60.99	10.112.0.123
12.231.58.98	10.114.0.122
12.231.58.99	10.114.0.123

Settlements

Summary

Settlements interfaces provide Scheduling Coordinators the ability to download Settlement statements, invoices, CAISO Bill determinant files and SaMC Configuration Output files.

References

Market Results Interface - Settlements (MRI-S) at <http://www.caiso.com/participate/Pages/ApplicationAccess/Default.aspx> under California ISO applications

There may be later application information at the Release Planning location:

<http://www.caiso.com/informed/Pages/ReleasePlanning/Default.aspx>

Connectivity Information

User Interfaces

Production	Production ECN	MAP Stage
https://portal.caiso.com/settlements	https://portal.ecn.wepex.net/settlements	https://portalmap.caiso.com/settlements

IP Addresses

Production	Production ECN	MAP Stage
12.200.60.98	10.112.0.122	12.200.60.164
12.200.60.99	10.112.0.123	
12.231.58.98	10.114.0.122	
12.231.58.99	10.114.0.123	

Web Services

Production	MAP Stage
<a href="https://ws.caiso.com/sst/stlmt/<Specific Web Services URL>">https://ws.caiso.com/sst/stlmt/<Specific Web Services URL>	<a href="https://wsmap.caiso.com/sst/stlmt/<Specific Web Services URL>">https://wsmap.caiso.com/sst/stlmt/<Specific Web Services URL>

Specific Web Services

Service	Release
RetrieveBatchValidationStatus	
<Web Services URL>RetrieveBatchValidationStatus_STLMTv1_AP	Fall 2016
<Web Services URL>RetrieveBatchValidationStatus_STLMTv1_DocAttach_AP	
RetrieveMeterData	
<Web Services URL>RetrieveMeterData_STLMTv1_AP	Fall 2016
<Web Services URL>RetrieveMeterData_STLMTv1_DocAttach_AP	
SubmitMeterData	
<Web Services URL>SubmitMeterData_STLMTv1_AP	Fall 2016
<Web Services URL>SubmitMeterData_STLMTv1_DocAttach_AP	

SIBR (Scheduling Infrastructure Business Rules)

Summary

The SIBR application (1) Accepts bids and trades for energy and energy related commodities from SCs that are certified to interact with ISO, (2) Ensures that those bids and trades are valid and modifies bids for correctness when necessary, (3) Enters those bids and trades into a database for processing by other components of the ISO's management systems, and (4) Provides required feedback to SCs concerning bids and trades that have been submitted.

References

Scheduling Infrastructure Business Rules (SIBR) at <http://www.caiso.com/participate/Pages/ApplicationAccess/Default.aspx> under California ISO applications

There may be later application information at the Release Planning location:

<http://www.caiso.com/informed/Pages/ReleasePlanning/Default.aspx>

Connectivity Information

User Interfaces

Production	Production ECN	MAP Stage	Sandbox
https://portal.caiso.com/sibr	https://portal.ecn.wepex.net/sibr	https://portalmap.caiso.com/sibr	https://sandbox.caiso.com/sibr

IP Addresses

Production	Production ECN	MAP Stage	Sandbox
12.200.60.98	10.112.0.122	12.200.60.164	12.200.60.162
12.200.60.99	10.112.0.123		
12.231.58.98	10.114.0.122		
12.231.58.99	10.114.0.123		

Web Services

Production	Production ECN	MAP Stage	Sandbox
<a href="https://ws.caiso.com/sst/sibr/<Specific Web Services URL>">https://ws.caiso.com/sst/sibr/<Specific Web Services URL>	<a href="https://ws.ecn.wepex.net/sst/sibr/<Specific Web Services URL>">https://ws.ecn.wepex.net/sst/sibr/<Specific Web Services URL>	<a href="https://wsmap.caiso.com/sst/sibr/<Specific Web Services URL>">https://wsmap.caiso.com/sst/sibr/<Specific Web Services URL>	<a href="https://wssandbox.caiso.com:4445/sst/sibr/<Web Services URL>">https://wssandbox.caiso.com:4445/sst/sibr/<Web Services URL>

Specific Web Services

Service	Release
RetrieveCBCCleanBidSet	
<Web Services URL>RetrieveCBCCleanBidSet_SIBRv20100301_AP	CB
<Web Services URL>RetrieveCBCCleanBidSet_SIBRv20100301_DocAttach_AP	
<Web Services URL>RetrieveCBCCleanBidSet_SIBRv1_AP	Fall 2014
<Web Services URL>RetrieveCBCCleanBidSet_SIBRv1_DocAttach_AP	
RetrieveCBCCurrentBidResults	
<Web Services URL>RetrieveCBCCurrentBidResults_SIBRv20100301_AP	CB
<Web Services URL>RetrieveCBCCurrentBidResults_SIBRv20100301_DocAttach_AP	
<Web Services URL>RetrieveCBCCurrentBidResults_SIBRv1_AP	Fall 2014
<Web Services URL>RetrieveCBCCurrentBidResults_SIBRv1_DocAttach_AP	
RetrieveCleanBidSet	
<Web Services URL>RetrieveCleanBidSet_SIBRv3_AP	Fall 2014
<Web Services URL>RetrieveCleanBidSet_SIBRv3_DocAttach_AP	
<Web Services URL>RetrieveCleanBidSet_SIBRv4_AP	Fall 2015
<Web Services URL>RetrieveCleanBidSet_SIBRv4_DocAttach_AP	
RetrieveCurrentBidResults	
<Web Services URL>RetrieveCurrentBidResults_SIBRv3_AP	Fall 2014
<Web Services URL>RetrieveCurrentBidResults_SIBRv3_DocAttach_AP	
<Web Services URL>RetrieveCurrentBidResults_SIBRv4_AP	Fall 2015
<Web Services URL>RetrieveCurrentBidResults_SIBRv4_DocAttach_AP	
RetrieveFinalTradeSet	
<Web Services URL>RetrieveFinalTradeSet_SIBR_AP	Go Live
<Web Services URL>RetrieveFinalTradeSet_SIBR_DocAttach_AP	
RetrieveSCVERForecast	
<Web Services URL>RetrieveSCVERForecast_SIBRv1_AP	Spring 2014
<Web Services URL>RetrieveSCVERForecast_SIBRv1_DocAttach_AP	
RetrieveSelfScheduleContracts	
<Web Services URL>RetrieveSelfScheduleContracts_SIBRv20090801_AP	SCP

Service	Release
RetrieveTradeResults	
<Web Services URL>RetrieveTradeResults_SIBR_AP	Go Live
<Web Services URL>RetrieveTradeResults_SIBR_DocAttach_AP	
SubmitBidAction	
<Web Services URL>SubmitBidAction_SIBR_AP	Go Live
SubmitCBBidAction	
<Web Services URL>SubmitCBBidAction_SIBRv20100301_AP	CB
SubmitCBRawBidSet	
<Web Services URL>SubmitCBRawBidSet_SIBRv20100301_AP	CB
<Web Services URL>SubmitCBRawBidSet_SIBRv20100301_DocAttach_AP	
<Web Services URL>SubmitCBRawBidSet_SIBRv1_AP	Fall 2014
<Web Services URL>SubmitCBRawBidSet_SIBRv1_DocAttach_AP	
SubmitRawBidSet	
<Web Services URL>SubmitRawBidSet_SIBRv3_AP	Fall 2014
<Web Services URL>SubmitRawBidSet_SIBRv3_DocAttach_AP	
<Web Services URL>SubmitRawBidSet_SIBRv4_AP	Fall 2015
<Web Services URL>SubmitRawBidSet_SIBRv4_DocAttach_AP	
SubmitRawTradeSet	
<Web Services URL>SubmitRawTradeSet_SIBR_AP	Go Live
<Web Services URL>SubmitRawTradeSet_SIBR_DocAttach_AP	
SubmitSCVERForecast	
<Web Services URL>SubmitSCVERForecast_SIBRv1_AP	Spring 2014
<Web Services URL>SubmitSCVERForecast_SIBRv1_DocAttach_AP	
SubmitTradeAction	
<Web Services URL>SubmitTradeAction_SIBR_AP	Go Live

TR (Transmission Register)

Summary

Database for all transmission facilities under ISO Operational Control

References

Transmission Register at <http://www.caiso.com/participate/Pages/ApplicationAccess/Default.aspx> under California ISO applications

There may be later application information at the Release Planning location:

<http://www.caiso.com/informed/Pages/ReleasePlanning/Default.aspx>

Connectivity Information

User Interfaces

Production	Production ECN
https://portal.caiso.com/tr	https://portal.ecn.wepex.net/tr

IP Addresses

Production	Production ECN
12.200.60.98	10.112.0.122
12.200.60.99	10.112.0.123
12.231.58.98	10.114.0.122
12.231.58.99	10.114.0.123

Web Services

Summary

ISO web services allow for integration of applications.

Connectivity Information

User Interfaces

Production	Production	Production ECN	Production ECN	MAP Stage	Sandbox
https://wsstas.caiso.com:4445	https://ws.caiso.com	https://wsstas.ecn.wepex.net:4445	https://ws.ecn.wepex.net	https://wsmap.caiso.com	https://wssandbox.caiso.com:4445

IP Addresses

Production	Production	Production ECN	Production ECN	MAP Stage	Sandbox
12.200.60.98	12.200.60.50	10.112.0.122	10.112.0.90	12.200.60.218	12.200.60.162
12.200.60.99	12.200.60.51	10.112.0.123	10.112.0.91		
12.231.58.98	12.231.58.50	10.114.0.122	10.114.0.90		
12.231.58.99	12.231.58.51	10.114.0.123	10.114.0.91		

Access Requests

Requests should be submitted per the *How to Submit ISO Application Access Requests* document under the “ISO system access” section on the following page: <http://www.caiso.com/participate/Pages/ApplicationAccess/Default.aspx>. This document provides an overview of the ISO application access request submission instructions. Available methods are

- External User Application Access Request Form (AARF)
- Integration Application Access Request Form (AARF)
- For revoking users, use AIM
- CIDI for Application Access Request Case (AARC) AND Revoke Access Request Case (RARC)

ISO Help Desk

To report issues with the systems, please contact the ISO Help Desk and specify the environment in which the issue exists.

- Voice: (916) 351-2309 or (888) 889-0450
- Fax: (916)351-4487
- E-mail: ISOHelpDesk@caiso.com

Questions

For questions about this document, please contact ISO Change Management at changemanagement@caiso.com.

Acronyms

Acronym	Description
AARF	Application Access Request Form
ADS	Automated Dispatch System
AIM	Access and Identity Management
API	Application Programming Interface
BPM	Business Practice Manuals
BAAOP	Balancing Authority Area Operations Portal
BSAP	Base Schedule Aggregation Portal
CB	Convergence Bidding
CC	Commitment Costs
CIDI	Customer Inquiry Dispute and Information
CIRA	Customer Interface for Resource Adequacy
CMRI	Customer Market Results Interface
CRN	Contract Reference Number
CRR	Congestion Revenue Rights
DRS	Demand Response System
ECN	Energy Communication Network
EIM	Energy Imbalance Market
FLEX	Flexible Ramping
Go Live	The Market Redesign Technology Upgrade (MRTU) WENT LIVE April 1, 2009
IP	Internet Protocol
MAP	Market and Performance (New Release)
MDS	Market Definition Service
MFRD	Master File Redesign
MNS	Market Notification Service
MPP	Market Participant Portal
MRI-S	Market Results Interface Settlements
MSG	Multi-Stage Generation
OASIS	Open Access Same-Time Information System

Acronym	Description
OMAR	Operational Meter Analysis and Reporting
OMS	Outage Management System
OTCC	Open Tie Commitment Cost
OTSL	Open Tie Stranded Load
PIRP	Participating Intermittent Resource Program
RAAM	Resource Adequacy Availability Management
RARF	Revoke Access Request Form
RIMS	Resource Interconnection Management System
SCP	Standard Capacity Product
SDS	Settlements Dispute System
SFTP	Secure File Transfer Protocol
SIBR	Scheduling Infrastructure Business Rules
SIUG	Systems Interface User Group
SLIC	Scheduling and Logging for ISO of California
TOR	Transmission Outage Report
TR	Transmission Register
TUG	Technical User Group
URL	Universal Resource Locator

Revisions

Version	Date	Description
1.0	02/02/10	Initial draft distributed to Market Participants for review and feedback
1.1	02/12/10	Revised version with Market Participants' feedback and additional application information included
1.2	02/19/10	Finalized version after testing and addition of DRS
1.3	04/07/10	Added DRS and SLIC API URLs
1.4	05/19/10	Added Stage DRS API URLs
1.5	07/02/10	Updated links
1.6	07/10/10	Added MAP Stage links for ADS, CMRI, Masterfile, SIBR and SIBR Lite for Multi-Stage Generation (MSG)
1.7	08/10/10	Added Production DRS link and URLs for Proxy Demand Response (PDR)
1.8	09/17/10	Updated document to simplify content and structure. Introduced The Sandbox environment. Moved SIBR Lite URLs into the Sandbox. Added the SIBR Lite URLs (virtual) links in The Sandbox for Convergence Bidding (CB).
1.9	10/25/10	Added Stage and MAP Stage DRS links for Proxy Demand Response (PDR) and added links for Multi-Stage Generation (MSG)
2.0	11/10/10	Added MAP Stage SIBR links for Convergence Bidding (CB)
2.1	11/16/10	Added MAP Stage CMRI links for Convergence Bidding (CB)
2.2	01/12/11	Added Stage SIBR links for Convergence Bidding (CB)
2.3	01/25/11	Added Production SIBR and CMRI links for Convergence Bidding (CB)
2.4	04/21/11	Added MAP Stage, Stage and Production PIRP Web Services URLs
2.5	05/17/11	Added MAP Stage, Stage and Production MasterFile links for Commitment Costs (CC)
2.6	08/08/11	Removed Stage Environment links, Updated public website IP's and added MAP Stage SIBR links for Open Tie Stranded Load (OTSL)
2.7	10/13/11	Updated Production SIBR URLs for Open Tie Commitment Costs (OTCC)
2.8	11/10/11	Updated MAP Stage CMRI URLs for Flex Ramping (FLEX) and IRR URLs
2.9	12/14/11	Updated MAP Stage and Production Masterfile URLs for Flex Ramping (FLEX)
3.0	02/08/12	Modified MAP Stage maintenance windows and updated MAP Stage SIBR URLs for Non-Generator Resources – Regulation Energy Management (NGR-REM / REM)
3.1	03/28/12	Added Production and Sandbox SIBR URLs for Non-Generator Resources – Regulation Energy Management (NGR-REM / REM), Added Production ECN IRR URL, Added Location of OASIS Interface Specifications
3.2	04/05/12	Modified OASIS information, Removed Old DRS URLs and Added New DRS URLs
3.3	06/12/12	Modified MF URLs, added SIBR URLs

Version	Date	Description
4.0	09/05/12	Updated MAP Stage ADS URLs for Contingency Dispatch Enhancements (CDE) and MAP Stage MasterFile URLs for multiple projects in Fall 2012 Release
4.1	12/04/12	Included Production and MAP Stage information for MRI (Market Results Interface) Settlements and removing MAP Stage and Production information for BAPI, modified Production information for ADS
4.2	02/14/13	Removal SIBR Lite & Sandbox per decommission and Spring Release updates; MAPStage Standalone SIBR URLs
4.3	03/13/13	Corrected typos in MAPStage CRMIs URLs
4.4	05/01/13	URLs for multiple projects in Spring 2013 Release. Effective dates on applications will be as described in the Deployment Plan disseminated on 4/18/2013
4.5	05/31/13	Corrected URL for SLIC soaprouter
4.6	08/08/13	Removed BAPI references Removed interim PROD references Added Sandbox / SIBR_Lite information
4.7	08/13/13	Added CIRA information for MAP Stage
4.8	09/23/13	Added CMRI: RetrieveContractUsage for Fall 2013 Release; updated MNS references and application access request information
4.9	11/22/13	Added ECN reference information Added GMT URLs for MAP Stage CMRI
4.10	12/04/13	Added GMT URLs for PROD CMRI
4.11	01/08/14	Added SIBR Spring 2014 URLs to SIBR_Lite section
4.12	01/17/14	Added CMRI URLs for Spring 2014 to MAPStage section
4.13	02/07/14	Added ADS URLs for Spring 2014 to MAPStage section, removed MSG entry in ADS MAPStage and updated SIBR URLs for Spring 2014 in MAPStage section
4.14	02/10/14	Added AIM URLs for Production and Acronyms sections
4.15	03/20/14	Added OMAR FTP for MAP Stage, updated MasterFile URLs for MAP Stage
4.16	04/03/14	Remove URLs in MAPStage and SIBR_Lite that were previously deprecated, but not removed from documentation. (REM: 4/1/12)
4.17	04/15/14	Added Spring 2014 URLs for Production
5.0	06/10/14	Added Fall 2014 URLs for Sandbox (BSAP, OMS Lite, SIBR Lite); modified MAP Stage and Sandbox maintenance windows
5.1	06/16/14	Modified OMS Lite URLs for Sandbox, added note that OMS Lite URLs for Sandbox will be available 6/24/14
5.2	07/07/14	Modified OMS Lite release to Fall 2014, modified OMS Lite URL availability dates
5.3	07/08/14	Added Fall 2014 URLs for MAP Stage (ADS, BSAP, CMRI, MF, OMS, SIBR)

Version	Date	Description
5.4	07/16/14	Updated MAP Stage BSAP UI URL
5.5	08/05/14	Added MAP Stage and Sandbox URLs for OMS and BSAP; modified MPP URLs; modified MAP Stage BSAP IP; removed MAP Stage SLIC
5.6	08/18/14	Added and modified CMRI URLs for MAP Stage; modified WebOMS information for MAP Stage and Sandbox
5.7	08/21/14	Updated Production URLs for Fall 2014 release, including Fall 2014 release SIBR
5.8	09/04/14	Added Production URLs for Fall 2014 release
5.9	09/08/14	Added new Sandbox SIBR URLs for Fall 2014 release
6.0	09/25/14	Added new MAP Stage SIBR URLs, removed obsolete SIBR Lite URLs, minor corrections
6.1	10/03/14	Removed new Production URL formats for CMRI, DRS, and MF
6.2	10/06/14	Restored non-GMT CMRI & OASIS URLs for Production, added Stage OASIS URLs
6.3	10/07/14	Minor corrections
6.4	10/10/14	Removed services moved to 2015 spring release: RetrieveCBCCleanBidSet_SIBRv1 and RetrieveCBCCurrentBidResults_SIBRv1; Added SubmitCBRawBidSet_SIBRv1
6.5	10/28/14	Removed referenced URLs for Old SIBR Vs. SIBR Fall 2014
6.6	11/17/14	Updated URL reference for SIBR in MAPStage to https://wsmap.caiso.com:4445/
6.7	01/26/15	Removed URL references for decommissioned CMRI – PTR entries.
6.8	02/03/15	Added DRRS URLs for MAPStage
6.9	02/12/15	Removed decommissioned mrtu-oasis Single and Group Zip URLs (effective 2/2/2015) Added DRRS URLs for Production
6.10	02/19/15	Added IPs for DRRS
6.11	03/24/15	Changed CIRA name to be Customer from CAISO
6.12	04/08/15	Added SubmitCBRawBidSet_SIBRv1 URLs for MAP stage and production
6.13	04/14/15	Added RetrieveCBCCleanBidSet_SIBR_v1 URLs for MAP stage and production
6.14	04/20/15	Added RetrieveCBCCurrentBidResults_SIBR_v1 URLs for MAP stage and production
7.0	06/11/15	Added Fall 2015 Release URLs for MAP stage
7.1	06/24/15	Updated MAP stage web service URLs to remove :4445
8.0	08/10/15	Added Fall 2015 Release URLs for Production
8.1	09/01/15	Updated IPs for Production MPP, updated MPP Production ECN URL
9.0	01/01/16	Modified document format; added CMRI RetrieveEIMEntityTransferLimit services, added Early 2016 Release services
9.1	01/11/16	Added additional Early 2016 Release services for OMS
9.2	05/23/16	Added Settlement services for OMAR Replacement, Added DRRS services for Demand Response Registration Enh

Version	Date	Description
9.3	06/17/16	Added Fall 2016 Release services
9.4	09/19/16	Added ALFS, added clarification for CIRA services, added more CMRI Fall 2016 Release services, added clarification for CMRI web services URL (includes sunset of old URL)
9.5	10/26/16	Modified new CMRI web service URL (standardization)
9.6	03/10/16	Added ADS secondary connection names
10.0	06/01/17	Added latest URLs, including Fall 2017 Release
10.1	10.01/17	Minor modifications, removal of decommissioned systems