California ISO

DACA As a Service (DAAS) On Boarding Overview

EDAM Program

Document Version: 0.3

Date Created: 8/1/2026

REVISION HISTORY

VERSION NO. (Must match header)	DATE	REVISED BY	DESCRIPTION
0.1	8/1/2026	David Luk	Initial Draft
0.2	8/07/2026	David Luk	Add MRI-S, XSD, and SFTP in 3.2 section Update DAAS Visualization to DAAS Read-Only
0.3	9/10/2026	David Luk	Add Settlements and retention period

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1. Introduction

CAISO offers Day-Ahead Contingency Analysis as a Service (DAAS) as an elective, which is distinct from the Extended Day-Ahead Market (EDAM) function and will be billed as such. CAISO provides these services in accordance with CAISO Tariff Section 33.21.

EDAM Entities who subscribe to DAAS services will be able to perform their own Day-Ahead Contingency Analysis executions. This functionality will allow subscribers to perform reliability studies by running what-if scenarios with the network contingencies and Remedial Action Scheme (RAS) for their own Balancing Authority Area.

The Day-Ahead Contingency Analysis as a service (DAAS) provides the following key benefits to the subscribers.

- The ability to do a look ahead contingency analysis and the ability to study more or modified contingencies including studying new or modified outrages. This includes the ability to make changes to cases, apply reconfiguration and perform studies to verify the impact of changes on the network constraints
- The ability to compare CAISO reliability solution with their own experience and analysis
- The ability to show impact of network constraints difference between two different analyses
- The ability to suggest that future Day-Ahead Market (DAM) solutions consider a different set of contingencies than what CAISO has selected.

More Information on DACA Services: Tariff section 33.21, EDAM BPM (appendix 2, section 3) draft configuration guide for settlement/billing

Source documentation links:

- *Tariff Section 33-EDAM*
- *EDAM BPM*

TBD – Settlement BPM Main Body and new BPM Charge Code Configuration Guide

2. Acknowledgement Overview

The general administrative sequence is:

Service Request → CAISO Confirmation → Initial Invoice → Payment → Service Activation → Annual Billing/Renewal → Termination, if elected

2.1 DAAS Acknowledgement

EDAM Proform agreement is a pre-requisite to offering or requesting DAAS

Timing of offering DACA As a Service to onboarding EDAM is TBD.

At offering, entity will be provided high level information on what DAAS is and the costs/billing routines.

To formally request DAAS, the EDAM entity must have signed the EDAM pro-forma contract and submit a request via CIDI to trigger the DAAS Subscription Process at least 90 days prior to desired start date.

Customer onboarding must reply and provide acknowlelgement/service set up form (to be developed) that the subscribing entity will need to complete and send back to the ISO via CIDI. This form will:

- specifies data needed for DAAS application access including desired subscription type, number of additional study users (if any), POCs for both billing and DAAS application use comms, and the start of service target date for billing. Other info may be requested as well
- provides written acknowledgement of entities committment to DACA servies form CAISO pursuant to the terms and conditions set forth in tariff

2.2 Initial Payment

Initial payment must be received prior to ISO providing configuration in AIM.

3. Billing and Commitment

3.1 Billing

DAAS is available to EDAM Entities and requires an initial three-year commitment. The initial commitment includes a one-time start-up charge, amortized over the initial three-year minimum commitment period, along with the applicable annual fees for the DAAS services elected by the EDAM Entity.

3.1.1 Service Request and Activation

An EDAM Entity requesting DAAS services must submit a CIDI ticket at least 90 calendar days before the requested service start date. DAAS services may begin only on the first day of a month. CAISO will confirm the requested service, number of users, if applicable, and effective date.

CAISO will invoice the EDAM Entity 21 business days before service activation. Service will be activated upon receipt of payment, and invoices will be distributed through MRI-S.

3.1.2 Annual Billing Period and Initial Proration

DAAS subscriptions will follow a standard Annual Billing Period of September 1 through August 31. New subscriptions that begin outside of this cycle will be aligned to the next September 1 renewal date.

For customers beginning service outside the standard cycle, the initial billing will prorate forward. The initial invoice will include:

- the prorated charges from the requested service start date through August 31; and
- the applicable annual charges for the upcoming September 1 through August 31 Annual Billing Period.

For example, if service begins May 1, the initial billing would cover the partial period from May 1 through August 31, plus the next full September 1 through August 31 Annual Billing Period.

This approach brings customers onto the common annual billing cycle while preserving the initial three-year service commitment.

3.1.3 Annual Service Elections

For subsequent annual periods, the EDAM Entity must notify CAISO in accordance with the timelines and procedures established in the EDAM BPM of the DAAS services it elects to receive.

If the EDAM Entity does not timely request a change in its service election, CAISO will continue providing the same DAAS services for the next Annual Billing Period.

3.1.4 Initial Three-Year Commitment

The three-year minimum commitment begins with the customer's initial service effective date, even when that date falls outside of the September 1 annual billing cycle.

Billing during that commitment is aligned to the September 1–August 31 cycle through the initial prorated period and subsequent annual billing periods. The billing periods therefore do not necessarily correspond exactly to three consecutive 12-month periods beginning on the customer's initial service date.

This distinction is important because the service commitment period and billing cycle serve different purposes:

- The three-year commitment establishes the minimum period for which the customer is committed to the service.
- The September 1–August 31 Annual Billing Period provides a common administrative and billing cycle.

3.1.5 Renewal and Termination

Following the initial three-year commitment, DAAS enrollment will automatically renew annually unless CAISO receives the required notice of termination.

The billing scenarios contemplate two termination situations:

- Termination at the end of the initial 36-month commitment.
  - If the EDAM Entity intends to discontinue service at the end of its initial commitment, it must provide the required termination notice at least 12-months in advance of the initial commitment anniversary.
  - Because the customer's initial 36-month anniversary may not coincide with August 31, a final prorated billing period may be necessary to align the customer's financial obligation with the end of the initial commitment.
- Termination after the initial 36-month commitment.
  - If the customer continues service beyond its initial commitment, billing continues on the standard September 1–August 31 Annual Billing Period. There is no need to create a prorated “final billing period” merely because the original 36-month anniversary occurs during an annual billing cycle.
  - Once the initial commitment has been satisfied, termination should instead align with the annual billing cycle. The customer must provide its termination notice at least 12-months in advance of the August 31 date on which it wants service to end.

For example, if a customer intends to terminate service effective August 31 of a future year, notice would need to be provided no later than approximately 12 months before that date. Until timely notice is provided, the customer continues to be billed for successive September 1–August 31 Annual Billing Periods.

3.1.6 Settlement and Billing

DAAS charges will be settled through Charge Code 5811: Day-Ahead Contingency Analysis as a Service Charges, consistent with the applicable Settlements and Billing BPM and Configuration Guide.

3.2 Settlements Configuration

DAAS will be billed annual using the same MRIS functionality as market billing. However, it will have a separate statement and a separate invoice. (follow up with MSDC for wording or Settlement Conf Guide). There are no separate XSDs for DAAS. Please refer to the CAISO developer portal for MRI-S technical specifications.

As an alternative to MRI-S UI, entities can obtain access to SFTP server as another way of getting the statement and invoice files (ie, via a network folder). Please work with CAISO to obtain access to SFTP server.

- DAAS Statement Run Type in MRIS: DAAS Initial
- DAAS Invoice Run Type in MRIS: DAAS Invoice

New BPM Charge Code Configuration Guide:

- Day-Ahead Contingency Analysis As A Service (DAAS) Charges CC 5811

Updated Settlement BPM Main Body:

- BPM for Settlements and Billing_v30
- BPM for Settlements and Billing_v30_REDLINE

4. Training

4.1 DAAS User Guide

Upon completion of initial payment, CAISO will provide a DAAS user guide. The purpose of this document is to provide a customer who is an EDAM Entity that subscribed to DACA as a Service (DAAS) with a summary on using the DAAS application for greater situational awareness to assist with day-ahead assessment. This user guide is organized into the following sections.

- overview of the system and how it is utilized for all users
- describes basics of the DAAS control and monitors such as application login, execution control and operator study monitor.
- describes DAAS study user and how to perform a study along with various logs for debugging/investigation purposes.
- discusses how to modify contingency definitions in detail.
- discusses how to model/modify remedial action scheme in detail.

5. Testing

5.1 Access Provisioning

Depending on the subscription type, CAISO will provide access to the following DACA:

1.1 DACA Visualization (Read-Only)

- Read-only access to view the results of D+1, D+2, and D+4 in the Day-Ahead Contingency Analysis including visualization using network model one-line diagrams.
- DAAS read only subscriber: three (3) read-only shared operational users

1.2 DACA Study Package

- Includes read and write access to DACA Visualization.
- Ability to make changes to cases, apply reconfiguration, and perform contingency analysis studies utilizing CAISO's advanced day-ahead network applications to verify the impact of changes on the network constraints.
- DAAS study (read/write) subscriber: two (2) dedicated study users in addition to above-mentioned shared operational users
- Additional study user subscriptions available for extra cost
- Retention policy
  - 90 days for the save cases
  - Moved to archives after 90 days and will be kept for 3 years

Feature	Visualization (Read-Only)	Study Package (Read/Write)
D+1, D+2, D+4 case access	Yes	Yes
Shared read-only users	3 included	3 included
Dedicated study users	No	2 included
Create / save study cases	No	Yes
Define outages and contingencies	No	Yes
Additional licenses available	Yes	Yes

For both stage simulation and production go-live, users will require certificates and access for both the WEM portal and the DAAS application. For DAAS access, UAA's will be required to provision for both WEM portal and the DAAS application

Please provide the following for your anticipated users (3 read-only and 2 read/write):

- Name
- Email address
- Existing certificates (if applicable)

Email distribution list

As DAAS result publication times can vary, please submit CIDI request with email addresses for the following distribution list. These distribution lists will be maintained by Customer Readiness. Please contact Customer Readiness at CustomerReadiness@caiso.com for further information.

#	Distribution List	Purpose
1	DAAS-STAGE	The purpose of this distribution list is to notify EDAM entities when DAAS STAGE results are available for review.
2	DAAS-Production	The purpose of this distribution list is to notify EDAM entities when DAAS Production results are available for review.

5.2 Testing timeframe

#	Testing Cycle	Environment	Approximately Timeframe
	CIDI submission for DAAS access		Submit annual service elections (currently expected by July 1 for service in the following year)
1	Connectivity Testing	STAGE	Follow EDAM on boarding parallel operations
2	DAAS Market Simulation	STAGE	Follow EDAM on boarding parallel operations
3	DAAS Parallel Operations	STAGE	Follow EDAM on boarding parallel operations

5.3 Connectivity Testing

Once the appropriate DAAS access has been provisioned and appropriate payment have been provided. the ISO can issue security certificates and the EDAM Entity can begin provisioning access to their testing users. Once users are provisioned, they can conduct initial connectivity testing by pinging each ISO system and verifying that an appropriate response is received. Both system and user access can be verified to the STAGE environment. While the user may not be able to access the application at this point due to environment readiness, they will receive a response that indicates that their access is in place and they are through the fire wall.

Processes:

- The User Access Administrators (UAAs) are identified in advance. The EDAM Entity UAAs will request and approve user access for both system and individual users. At least one primary and one backup UAA are required.
- UAAs need to submit access requests via the AIM system and ensure all users and systems have access before connectivity testing begins.
- The EDAM Entity will attempt to access each application and provide a report to the ISO team when their attempts are successful.

5.4 Market Simulation Testing

The purpose of offering the Day-Ahead Contingency Analysis (DACA) as a service to enable EDAM participants to perform their own Day-Ahead Contingency Analysis executions. It enables the EDAM entity subscribers to perform reliability studies by running what-if scenarios with their own contingencies using the DACA cases as base cases.

User Guide documentation being provided by CAISO to ensure Market Participants have additional visibility to DAAS application and be part of relevant training material.

DAAS for DACA includes:

- **Contingency Analysis for DAAS customer:**
  Ability to perform look-ahead contingency analysis and study additional or modified contingencies, including new or adjusted outages. This includes making changes to cases, applying reconfigurations, and conducting studies to verify the impact of these changes on network constraints.
- **Settlement and Invoicing:**
  Develop DAAS settlement statements and invoices.

Please note market simulation testing will occur in STAGE for DAAS specific scenarios and DAAS billing.

Scenario #	Description
MSS-001	Eligible Entity to access DAAS UI as read-only user
MSS-002	Eligible Entity to access DAAS UI as read/write user
MSS-003	Eligible Entity to receive DAAS statement and invoice for DACA Services This is related to the billing of DAAS services. The execution timing will need to be evaluated.
MSS-004	Revisions made to DACA cases (D+1, D+2, D+4) republish to DAAS

Additional information will be provided closer to the Market Simulation timeframe.

5.5 Parallel Operations Testing

Beginning approximately three (3) months before EDAM activation, the ISO will activate a Parallel Operation environment to practice production grade systems integration, as well as Day-Ahead market processes and operating procedures in preparation for DAAS activation. The transition to Parallel Operations acts as a dry run of the transition to production. Most of the same steps required to move to Stage will be required to move to Production during activation.

At the start of Parallel Operations (PO), ISO will pubish D1 Voltage Stability Analysis (VSA) once per week for an initial 6 week period. This will allow the EDAM entities time to get familiar with the Day-Ahead run and utilization of DAAS. The goal of this effort will be focus on helping EDAM entities understand the results of their DA run and to prioritize quality of Day-Ahead operations.

Entrance Criteria:

- All Market Simulation structured scenarios are completed successfully and pass settlement validation.
- The ISO ensures the Stage environment has the most up to date EDAM Entity resource model configuration and appropriate production data is streaming to the environment.
- The EDAM Entity has provisioned all required testing users for the DAAS Stage environment.

Exit Criteria:

- The new EDAM Entity is participating successfully in the Parallel Operations' Stage DAAS environment.