



QuickStart Guide

Energy Data Insights on AWS



Energy Data Insights on AWS – Quickstart Guide

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Solution Overview

Energy Data Insights (EDI) on AWS is a managed AWS solution, delivered through AWS Managed Service (AMS), that unifies and transforms complex subsurface data, making powerful insights accessible for faster, more confident decision-making. EDI is based on the Open Subsurface Data Universe (OSDU[®]) technical standard, an industry-backed open standards data platform that promotes subsurface data centralization and integration with key business workflows through open and documented APIs. Customers can use EDI on AWS to improve the visibility and accessibility of their subsurface energy data, and rapidly build high-performance computing, machine learning, and generative AI workloads to uncover previously invisible subsurface insights.

Benefits and Features

In today's data-driven landscape, organizations are seeking efficient and user-friendly solutions to manage their valuable Subsurface data assets. EDI on AWS is designed to empower your business to maximize the impact of your data, driving informed decision-making and fueling innovation.

Accelerated time-to-value with seamless deployments. EDI's automated deployment feature streamlines the process of getting your OSDU data platform up and running. By eliminating manual, error-prone deployment tasks, this capability allows your organization to rapidly deploy the OSDU data platform and start deriving value from your data much faster.

Democratized data access through an intuitive user interface. EDI Data Platform Portal is an intuitive user interface that eliminates the need for complex API integrations, enabling both technical and non-technical users to seamlessly interact with your data as well as the OSDU data platform's services. This accessibility ensures that teams across your organization can securely leverage the power of your subsurface data, breaking down siloes and fostering a data-driven culture.

Double your data ingestion speed and time-to-insight. Uniquely, EDI offers an optional Smart Ingestion feature, powered by Amazon Bedrock's generative AI (GenAI) technology. This intelligent ingestion feature accelerates the rate of data onboarding by more than double the speed of traditional manual methods, helping your business to rapidly ingest, organize, and start deriving insights from your data immediately.

Getting Started

Overview

To get started with the Energy Data Insights (EDI) on AWS, visit the [EDI Product Website](#) and click 'Contact an Industry Expert'. You will be presented with a contact form; complete and submit this form to connect with an EDI specialist. This expert will guide you through the contracting process and help you develop a customized implementation plan for your organization.

Your EDI subscription includes two essential applications: the Operations Portal and the Data Platform Portal. The Operations Portal serves as an administrative interface where AWS manages EDI deployments, while providing you with access to view your organization's EDI subscriptions. Meanwhile, the Data Platform Portal empowers you to effectively manage your OSDU Data Platform(s). Optionally, EDI includes IQ, with smart ingestion capabilities which leverages AWS generative AI to accelerate your data ingestion into your data platform. These applications provide a comprehensive solution for overseeing both your EDI subscription and your data platform operations.

Once you have reviewed and accepted EDI usage terms, the EDI Cloud Operations team will initiate the onboarding process for your organization. During this phase, they will gather necessary information from you to deploy and configure your EDI applications. Following the deployment, you will receive credentials to access your dedicated subscription. The onboarding process will ensure a smooth integration of EDI into your AWS infrastructure, and efficient management thereof.

Prerequisites: Configuring Your EDI Subscription

During onboarding, the EDI Cloud Operations team will collaborate directly with your IT contact to deploy your initial EDI instance. This hands-on approach will ensure a smooth setup for your organization. Your AWS Technical Account Manager or other representative will share a comprehensive organization-specific checklist with you that includes requests for some or more of the following information:

- Target AWS account for data platform deployment
- Target AWS account for IQ deployment, if applicable
- AWS Region where EDI should be deployed. Reach out to your AWS technical contact for an updated regions list.
- Data Platform Domain name (same as in Route53 Hosted Zone)
- Hosted Zone ID (Route53 Hosted Zone ID of above domain)
- Desired OSDU Platform version (note: we recommend that you deploy the latest

version to ensure you are up-to-date on the latest technology, security and OSDU service updates)

- Technical Contact Information

Following the deployment and configuration of your subscription, you will receive notifications with credentials, to access you EDI applications. If you did not request EDI IQ subscription, then you are now ready to begin leveraging the capabilities of EDI. Otherwise, follow the following post-configuration steps to complete your configuration for EDI IQ.

EDI IQ Prerequisites (Only applicable for EDI IQ Deployment)

Before deploying EDI, you must configure your AWS account to enable the required Large Language Models (LLMs) that power IQ functionality. Specifically, you need to enable the following Anthropic models:

- Anthropic Claude 3 Haiku
- Anthropic Claude 3 Sonnet

These LLM configurations are mandatory prerequisites and must be completed before IQ features become operational. Without proper LLM enablement, IQ will not function as designed.

To enable these LLMs,

1. Go to [Bedrock console](#).
2. At the bottom of the left navigation pane, select '[Model Access](#)' from the 'Bedrock Configurations' section.
3. Search for the Models above and if Access Status = 'Available to request', click on the 'Available to request' link to request (Note: You must review the EULA for each model as part of the LLM selection/enablement process). An 'Available to Request' popup will appear.
4. For the first LLM selection, click 'Request Model Access' on the 'Available to Request' popup for that LLM. A checkbox will appear next to all models.
5. Subsequently select the additional model. Click 'Next'.
6. Review the Terms that appears on the next screen, confirming acceptance of the LLM seller's pricing terms and End User License Agreements (EULA), prior to submission.
7. Click 'Submit'.

Please ensure you complete these configuration steps to guarantee the proper operation of EDI IQ.

AWS support

Your Energy Data Insights on AWS (EDI) operations and support, also known as EDI Cloud Operations (ECO) is powered by AWS Managed Services (AMS). ECO provides an end-to-end operational solution and support for EDI, leveraging AWS services and a library of automations, configurations, and run books. The ECO team leverages a suite of native AWS services and features to provide comprehensive set of management capabilities. Within these, ECO team creates and maintains curated sets of monitoring controls, detection guardrails, automations, and runbooks, to operate EDI in a compliant and secure way. For more information and getting started with support, see [EDI Cloud Operations](#) documentation.