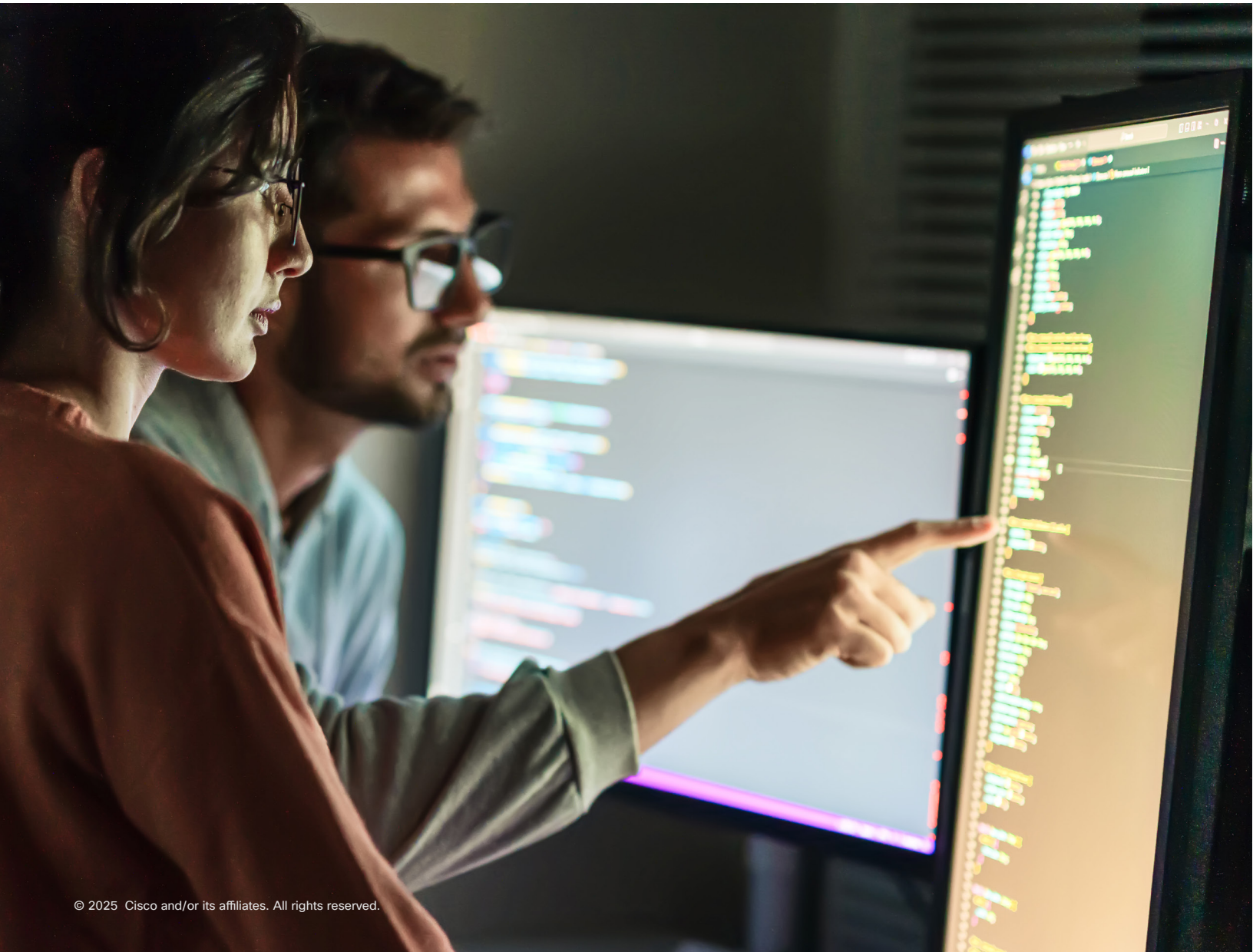
Cisco Edge Intelligence

Cisco® Edge Intelligence is a software offering, designed for Cisco IoT edge devices, that simplifies the secure delivery of IoT data to the right applications at the right time, either at the edge or in the cloud.



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Product overview

Internet of Things (IoT) discussions have moved from counting the number of connected devices to describing use cases and value for each industry. Organizations in every industry are looking to translate IoT edge data into meaningful information and derive business value. Cisco Edge Intelligence radically simplifies the IoT edge, with data delivery and control for connected assets.

Cisco Edge Intelligence is a software offering that extracts, transforms, governs, and delivers connected asset data from the IoT edge to cloud destinations with granular data control. It is a software service deployed on Cisco's Industrial IoT (IIoT) networking portfolio for easy, out-of-the box deployment.

The benefits of Cisco Edge Intelligence include the ability to leverage edge data for insights immediately. Instead of pushing data all the way to your cloud before analyzing it, you can now take action immediately based on the values of attributes right at the edge. Additionally, with the continued growth of sensors and connected assets, you can use Edge Intelligence to easily reduce the amount of data sent to your cloud back end: send data only when the value changes, send data only when a threshold is reached, or specify your sampling frequency at will. Cisco Edge Intelligence provides a robust toolkit of capabilities to increase your efficiency and improve your edge-to-edge data visibility from day one.

Current approaches require custom software and integration of multiple vendor technologies that are complex to deploy and manage. In addition, current offerings are further challenged with no easy way to control what data is delivered to specific applications running in cloud or on premise environments. Cisco Edge Intelligence enables organizations to regain ownership of and control over IoT edge data by providing:

- Out-of-the-box service on Cisco's IIoT networking portfolio
- Seamless data extraction from a variety of data sources
- Developer-friendly tools to create intelligent data logic for IoT edge execution
- The ability to govern the flow of IoT data at granular levels before data leaves the operational environments
- Preintegration with leading IoT platforms and applications to easily share data from the IoT edge to cloud destinations

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Features and benefits

Feature	Benefit
Integrated industrial device connectivity	Edge Intelligence provides various industry-standard connectors such as Open Platform Communications Unified Architecture (OPC UA), MQ Telemetry Transport (MQTT), Modbus TCP, and NTCIP 1202-1204, and integrates seamlessly with your environment.
Asset data model editor	Customize data models that describe exactly what data will be extracted from your assets. Custom attributes can be implemented to allow per-asset customization if needed, and our Data Logic engine has full access to asset attributes.
Data Logic engine	Deploy custom logic using JavaScript to transform data at the edge. Use data logic to sample high-frequency data streams, apply transformation logic, perform rule-based range validation, or normalize data, depending on specific needs.
Intuitive data rules creation	Achieve fine-grained control to help ensure that the right data is delivered to the right applications. Data from any source can be filtered at the attribute level and delivered to selected applications.
Multicloud application data integration	Deliver your data to any application, either cloud hosted or at the edge, using built-in connectivity to services such as Splunk or industry-standard protocols such as MQTT.
Security	Deploy industry-leading built-in security that protects your data and your business. Edge applications are protected through a comprehensive security architecture anchored to a hardware root of trust and built-in Transport Layer Security (TLS).

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Prominent features

Cisco Edge Intelligence is unique in that it is the only IoT solution that unlocks business value by simplifying the entire data flow from the edge of the network to cloud environments. This is presented through four distinct steps: extract (the data from disparate sources), transform (the data by applying policies), govern (the data as to where and who gets access to it), and deliver (the data securely to its destination).

- **Extract data from diverse, distributed devices:** Edge Intelligence includes industry-standard connectors such as OPC UA, Modbus, and MQTT that allow the solution to ingest data from disparate sources. No coding is needed – data sources are configured via simple local manager UIs. Ingested data is converted to industry-standard formats such as JSON.
- **Transform data at the edge:** Perform microprocessing on data close to the source. Create scripts using JavaScript that filter, compress, or analyze data. You can aggregate multiple data points from various sources to gain actionable insights into trends and patterns through real-time intelligent processing.
- **Define streamlined data rules:** Create data rules for the edge. Choose which data points (right down to the data attribute level) are sent to which destinations. For example, you can have all production data from assets go to an internal database for compliance reasons, and send environmental data to a real-time predictive maintenance application.
- **Deliver data anywhere:** Data can be delivered to applications either on at the edge or in the cloud. Use built-in connectors to share data with industry-leading cloud vendors, or choose industry-agnostic protocols such as MQTT.

Platform support

Product family	Platforms supported	Cisco IOx versions supported
Cisco Catalyst® IR1800 Rugged Series Routers	IR1835, IR1833, IR1831, IR1821	2.7.0.0
Cisco 800-level Industrial ISRs	809, 829	1.13.0.6
Cisco Catalyst IR1101 Rugged Series Router	IR1101	2.3.0.5
Cisco IC3000 Industrial Compute Gateway	IC3000	2.3.0.10
Cisco Catalyst IE3400 Rugged Series Switch	IE3400	2.8.0.0
Cisco Catalyst IE3500 Rugged Series Switch	IE3500	2.13.x

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Licensing

Cisco Edge Intelligence is entitled through the network advantage licenses on network devices (industrial routers and switches). Each device leveraging an Edge Intelligence agent is required to have the network advantage license.

Product specifications

Feature
Southbound connectivity
Modbus TCP/Serial
MQTT Broker
Serial
NTCIP 1202-1204
RSU
EIP/CIP
OPC UA
Northbound connectivity
MQTT
Azure IoT Hub
AWS IoT Core
Splunk

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Feature
Feature
Edge Agent software
Data ingestion
Asset data model editor
Northbound data destinations
Data rules for northbound data
Health monitoring
Scripting engine
Google Protobuf Support
Hardware platforms
IR1800 Rugged Series Router
809 Industrial ISR
829 Industrial ISR
IR1101 Rugged Series Router
IC3000 Industrial Compute Gateway
IE3400 Rugged Series Switch
IE3500 Rugged Series Switch

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Product sustainability

Information about Cisco's environmental sustainability policies and initiatives for our products, solutions, operations, and extended operations or supply chain is provided in the "Environment Sustainability" section of Cisco's Corporate Social Responsibility (CSR) Report.

Reference links to information about key environmental sustainability topics (mentioned in the "Environment Sustainability" section of the CSR Report) are provided in the following table:

Sustainability topic	Reference
Information on product material content laws and regulations	Materials
Information on electronic waste laws and regulations, including products, batteries, and packaging	WEEE compliance

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Document history

New or revised topic	Described in	Date
Added IE3400 support	Page 5, Under Platform Support	May 2023
Transition from IoT OD EI to local EI **Updated licencing to network advantage** **Addition of Splunk NB connector** **Addition of IE3500 platform support**	All pages	August 2025

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