

Ignition Edge

Ignition Edge was revised and expanded significantly as of release 8.0.10. This deprecated page is for User Manual legacy records.

Welcome to Edge

Edge is a stripped down version of Ignition that is specifically designed for use as an Edge of Network device.

There are currently three Ignition Edge plugins that can be used: **Panel**, **Enterprise**, and **MQTT**. Each offers its own features and you can combine them however you'd like to create the system you need. Often, Panel and Enterprise plugins are used together to create a simple way to keep local fallback terminals up to date.

 <p>Ignition Edge Panel</p> <p>Create local HMIs for field devices</p>	<h3>Panel</h3> <p>Ignition Edge Panel enables edge-of-network HMI functionality with robust Ignition features, including: one local web client, one remote web client, and alarming features including email notification. Ignition Edge Panel includes one week of data buffering for trending and local client fallback for mission-critical applications.</p>
 <p>Ignition Edge Enterprise</p> <p>Synchronize data to a central enterprise server</p>	<h3>Enterprise</h3> <p>Ignition Edge Enterprise acts as a limited remote server that shares data such as Tags, history, and alarms from the edge of the network to a central Ignition server by leveraging the Gateway Network. Edge Enterprise comes with up to a week of data buffering so it can be used to store-and-forward your data to a central server in case of network failure. Edge Enterprise also acts as an EAM agent, so if you have the EAM module installed centrally, you can also take advantage of centralized management of all of your Gateways.</p>
 <p>Ignition Edge MQTT by Cirrus Link</p> <p>Publish field-device data through MQTT</p>	<h3>MQTT</h3> <p>Ignition Edge MQTT by Cirrus Link uses the highly efficient MQTT protocol to transmit data to any MQTT broker and supports the Sparkplug data-encoding specification.</p>

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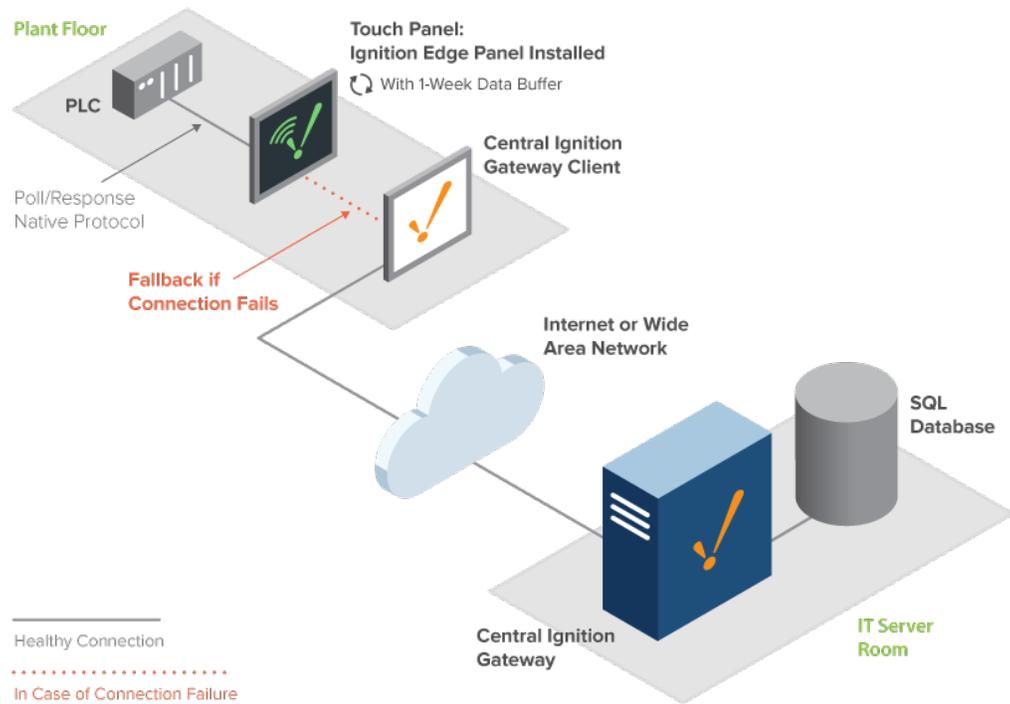


Edge Architecture

[Watch the Video](#)

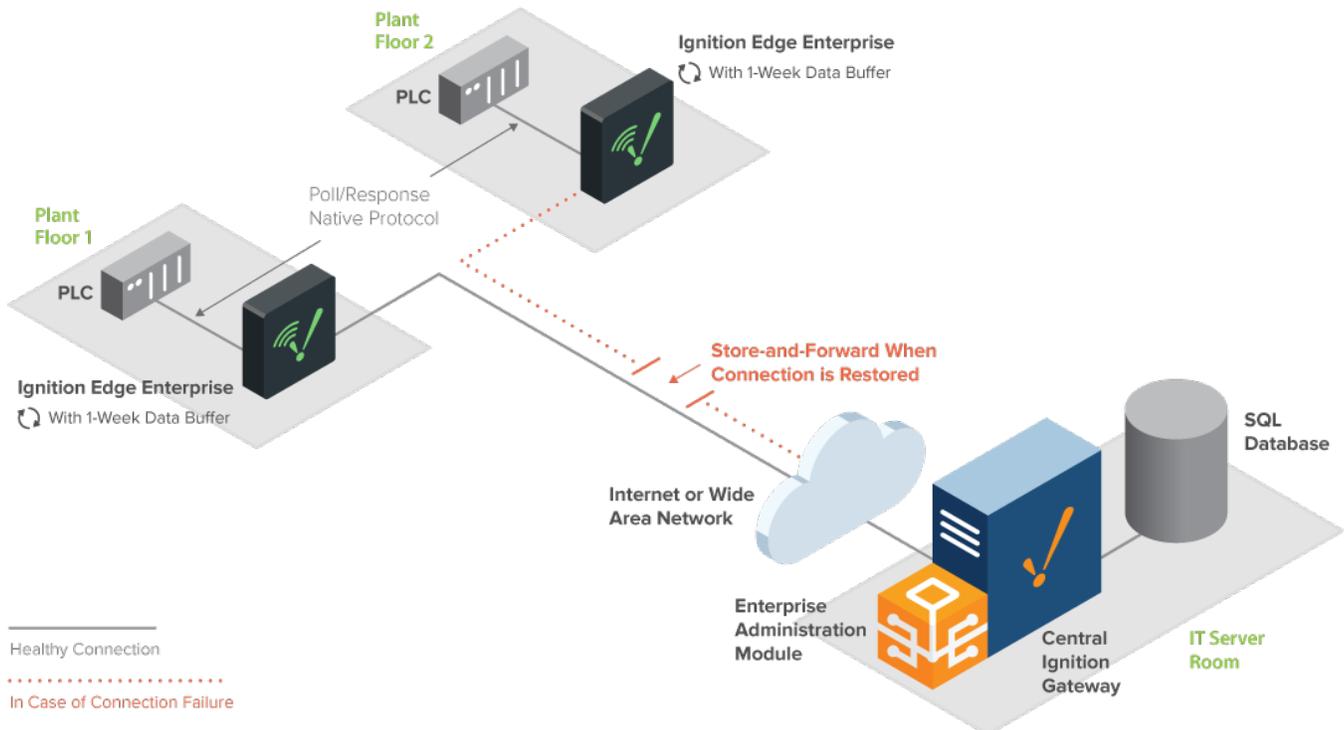
Panel

Ignition Edge [Panel](#) enables edge-of-network HMI functionality. This includes: one local web-launched client, one remote web-launched client, and alarming features including one-way email notification. Ignition Edge Panel includes one week of data buffering for trending and local client fallback for mission-critical applications.



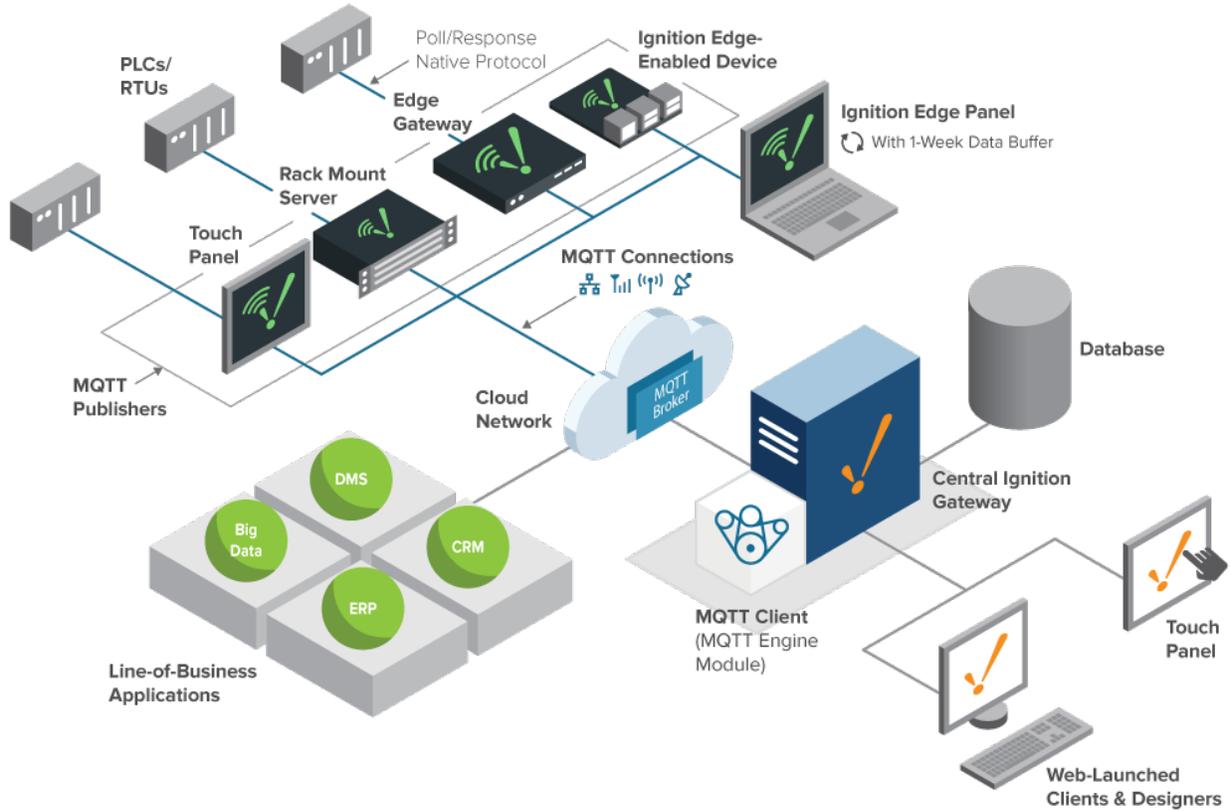
Enterprise

Ignition Edge **Enterprise** acts as a limited remote server that synchronizes data from the edge of the network to a central Ignition server. It has Distributed Tags, history, and remote alarming built in. Remote backup, restoration management, and centralized monitoring of performance and health metrics are also available if the Ignition **Enterprise Administration Module** (EAM) is installed on the central Ignition server. Edge Enterprise comes with up to one week of data buffering so it can be used to **store-and-forward** your data to a central server in case of network failure.



MQTT

Ignition Edge MQTT by Cirrus Link turns virtually any field device such as a touch panel or a client terminal into a lightweight, MQTT-enabled Edge Gateway that works seamlessly with Ignition IloT. Ignition Edge MQTT uses the highly efficient MQTT protocol to transmit data to any MQTT broker and supports the Sparkplug data-encoding specification.



What's Different About an Edge Gateway?

All Edge installations are a limited version of the Ignition platform for a significantly reduced cost. This helps keep things simple, and these installations always work with other full versions of Ignition if you need additional functionality. In Edge installation there are a lot of visual changes to the Gateway Webpage, and some pages have been removed to avoid confusion. You can see below that after installing Edge, the traditional orange Ignition logos are replaced with new green Edge logos so a Gateway can be easily identified. For more information, see [Edge Gateway](#).

The screenshot shows the Ignition Edge Gateway Webpage interface. At the top, there is a navigation bar with the Ignition logo, a 'Help' button, and a 'Get Designer' button. Below the navigation bar, there is a breadcrumb trail 'Home > Get Started' and a green banner indicating 'Trial Mode 1:53:59' with a note 'We're glad you're test driving our software. Have fun.' and an 'Activate Ignition' button. The main content area is divided into several sections:

- Download Ignition Designer Launcher:** A card featuring an orange wrench icon, the text 'Ignition Designer Launcher', a description 'Download the Ignition Designer Launcher to create or modify your projects.', and a green 'Download' button.
- Download Application Launchers:** A card featuring a blue checkmark icon, the text 'Vision Client Launcher', a description 'Download the Native Client Launcher to open Vision clients from any Ignition Gateway.', and a green 'Download Vision Client Launcher' button.
- Learn Ignition:** A section with the text 'Take advantage of our tools to get designing quickly and take your ideas from concept to reality. The User Manual is a wealth of easily searchable knowledge and the Inductive University has hundreds of short videos covering the basics of Ignition.' Below this are four cards:
 - Quick Start Guide:** Features the Ignition logo and text: 'With a wealth of easily searchable knowledge the Ignition user manual has everything you need to get started and get your questions answered.'
 - Inductive University:** Features the IU logo and text: 'IU has more than 600 searchable videos and 20 courses to help you learn how to use Ignition at your own pace on any device.'
 - Product Documentation:** Features an icon of three hexagons and text: 'Learn more about each Ignition module and what you can do with it.'
 - Appendix:** Features an icon of a document and text: 'A complete reference for components, expressions, and scripting functions in Ignition.'

Licensing

The new Edge version of Ignition has a separate license that works in the same way as a traditional Ignition license. The Edge license will not work if you attempt to activate it on an Ignition Gateway as it is only setup to license an Edge Gateway and its modules. However, you can activate a full Ignition license on an Edge Gateway, but this is not recommended due to the limitations of the Edge platform not being able to fully utilize the unlimited nature of an Ignition Gateway. Additionally, once a license has been activated on an Edge Gateway, the trial time for any unlicensed Edge plugins will be removed, and you will not be able to access them.

Projects

Edge installations only ever have one project. It is automatically created if it did not exist, and it cannot be removed. The default name is "Edge".

This feature is new in Ignition version **8.0.8**
[Click here](#) to check out the other new features

As of version 8.0.8, the Edge project can be renamed. For more information, see [Edge Gateway Config section](#).

Database Access

Database access is **disabled**. This means that any database queries or bindings will not work, and the user sources that require a database connection will not be available. The Status and Configure pages of the Gateway Webpage have been updated to remove these features and reduce confusion. Despite this restriction, some "historical" storage can happen inside of Ignition.

One Week of Internal Storage

An Edge installation can store certain historical data inside Ignition.

- **Tag history** - Up to one week or 10 million data points of history can be stored locally. Pruning will automatically happen, and the historian is automatically enabled and not configurable. An Edge Gateway can only have one realtime Tag provider and one Edge historian. You can learn more about tag history [here](#).

This feature is new in Ignition version **8.0.8**
[Click here](#) to check out the other new features

As of version 8.0.8, the Edge Tag provider and Edge Historian can be renamed. For more information, see [Edge Gateway Config section](#).

- **Alarm Journal** - The alarm journal will store all alarm events locally for one week of events. There are limited configuration options; the Alarm Journal can be accessed via the **Edge Alarm Journal** profile. The Edge alarm journal and audit log can sync under EAM.
- **Audit Logs** - Like the Alarms, the Audit log is limited to one week of local storage. It can't be configured.

Gateway Scripting

All Gateway level scripting is **disabled** including Gateway Event Scripts and Tag Event scripts. This does not affect project or client scoped scripts.

Gateway and Project Backups

A Gateway backup made in an Edge installation will work perfectly in other Edge installations. Edge Gateway Backups are not compatible with Ignition Gateways, so you may not take an Edge Gateway Backup and restore it on an Ignition Gateway. Nor may you take an Ignition Gateway Backup and restore it on an Edge Gateway.

However, you can still export Tags, windows, and other project resources in the Designer from full Ignition Gateways, and import them into an Edge project, or vice versa.

OPC Limitations

The internal OPC UA server in the Edge Gateway acts only as a client and not as a server. This means Edge **can** connect to other outside OPC servers as a client to fetch data, but **can not** act as an OPC UA server for outside programs to connect to.

EAM Architectures

Edge Gateways can not be configured as Controllers in EAM Architectures. However, Edge Gateways can be Agents.

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