



# The IoT Portal of the Future

## FEATURE SUMMARY

Assetwolf is a cloud-based IoT platform.

Devices send data to Assetwolf, which stores data, processes rules, handles security and presents the data to end users.

## OUR CUSTOMERS

We work with hardware suppliers, communication providers, and customers around the world to deliver IoT solutions.

We not only make portals look great, but work with customers to put their IoT product ahead of the rest.

In future, every product will be a platform. The internet of things will make every “thing” visible and controllable, wherever it is, from anywhere.

You don't need to wait for the future. Assetwolf is here, now.

## Overview

Assetwolf is a ready-made internet-of-things portal. It brings together data from remote “things” — assets — and presents that data to users in a meaningful way.

Taking care of security, it ensures access is provided only to the relevant users. People should only be able to see the data appropriate to them.

Users are presented with data in relevant ways: this includes status summaries, graphs, gauges, maps, images, schematic diagrams, alerts, documentation, and more.

Assetwolf handles alerts, can process complex rules, and can send commands and data to assets.

## Look & feel

An Assetwolf portal looks great out-of-the-box, or it can be styled to suit any design. It can comply with corporate look and feel, and be responsive for mobile friendliness.

Optional administrator access provides access to directly edit portal page layout and CSS.

## Connect anything

Any thing with network capability can be connected, including Raspberry Pi, Arduino, MangOH, 2G/3G/4G gateways, in-built modules, smartphone apps, and more.

Connect assets over TCP/IP with http, MQTT or AMQP protocols. Options for GSM/cellular. Simple key-value pairs and JSON are used.

You can connect assets via TCP/IP, http, MQTT, or GSM/cellular. Assetwolf uses a simple JSON-based, REST-compliant interface.

## Bring data to life

Assetwolf makes data look meaningful by presenting it in appropriate ways, using maps, graphs, gauges, schematics, alerts and more. Similar kinds of asset can be grouped together for scalability.

A range of data types are supported. Incoming data fields can be Boolean, floating point, integer or string.

Calculated fields can be based on simple or aggregated values. These are calculated on a set of data fields coming from one asset, or from related assets in a group.

Graph-display rules can be defined too, such as high, too-high, low and too-low thresholds.

## Minimizing data transfer

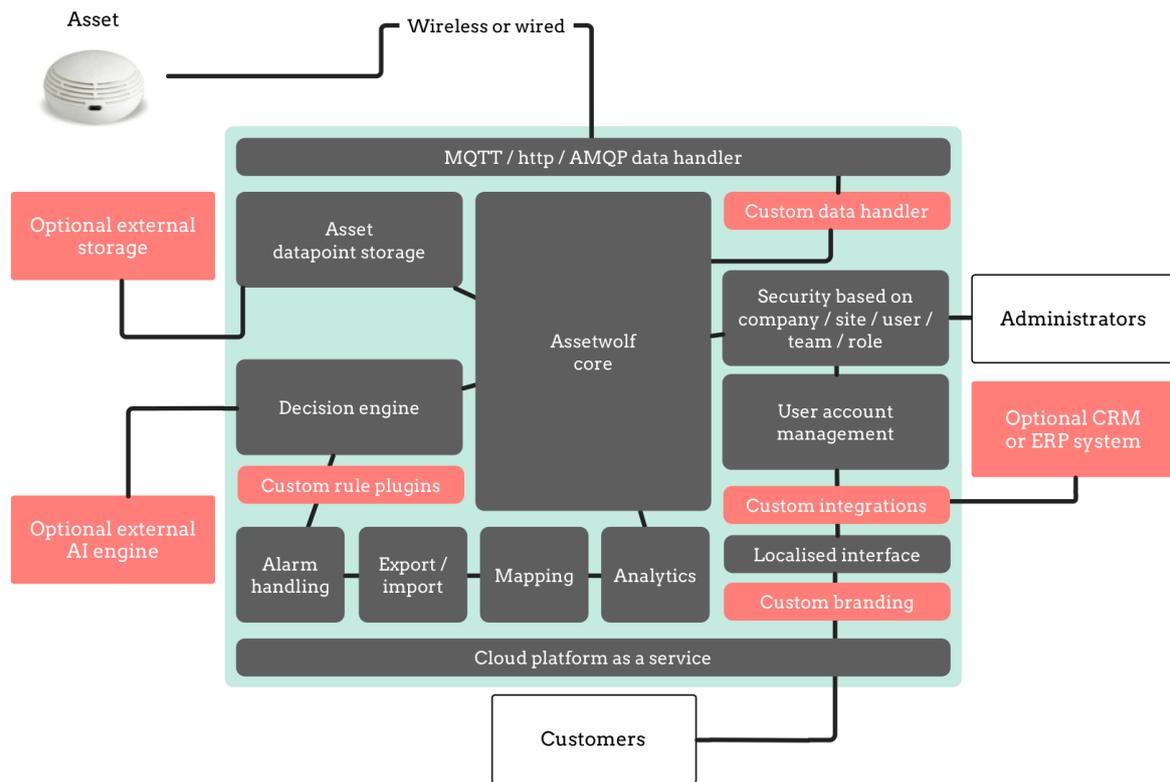
Assetwolf supports groups and hierarchies of assets through its multiplexing system.

One communication device can send a single data payload for multiple assets, using a prefix to identify the assets. The prefix can be any number of levels deep.

This can be used to minimize data transfer in low-energy or low-bandwidth situations, aggregating data before it is sent.

## Real-time rule processing

A rules-based decision engine is included with user-defined rules: for



example, alert handling; too-high/too-low detection; geo-fence entry/exit.

Rules can be processed on data from assets individually, or on data from a number of assets.

Custom rules can be added as an option.

### Schedules

Rules can be combined with a weekly rota, including day-of-week and time-of-day schedules, so that alerts are only raised during on-duty times.

## Who sees what

Assetwolf takes care of access control for users, determining any views that should be public, and any that should be restricted to individuals or groups of authorized users.

For consumer-facing situations, users authenticate to see the assets belonging to them. While for the enterprise, users can be grouped according to company and site, thus connecting users with assets within those sites. A Roles system allows for further granular control.

User Timers can be used to allow access to users for a fixed period of time.

Users can be created via a self-service account, optionally combined with an e-commerce system, or can be grouped into teams, with the team leader granting access to colleagues.

## Interface

Assetwolf interfaces look great out-of-the-box, and are responsive (mobile-friendly).

With optional Administrator access to your portal, the whole layout and style can be adapted to suit brand guidelines, design requirements and other needs.

Assetwolf's Gridmaker drag-and-drop interface allows the layout of pages to be easily changed and page elements re-positioned. You can edit JavaScript and CSS files through the browser, both for the entire site and for individual page elements. You can preview changes as you edit, before applying them to the live portal.

There is access to Twig, a simple but powerful server-side scripting language, with which further interface customizations can be added.

### Multi-lingual

Assetwolf can be deployed in multiple languages, with support to translate the entire portal down to field level.

### Media libraries

A full-featured document and video library can be deployed, so as to link assets' product lines to manuals, brochures, videos and other documentation.

## Custom integration

Assetwolf can connect to an ERP or CRM system, so as to reflect regular business processes, such as ordering, service scheduling, service reporting and maintenance contracts.

## Scalability

A massively scalable data storage architecture based on MySQL and MongoDB. Options for replication, cloud, and dedicated server setups.

## Pricing

Please visit [assetwolf.com](http://assetwolf.com) or call us on +44 118 324 5555.