

# Captive portal software for UniFi

---

## Summary of features:

The Art of WiFi captive portal software for UniFi networks offers the following features and functions:

- developed exclusively for the UniFi platform for tight integration
- is installed on a server under your control
- supports multiple sites
- guest login methods:
  - a fully configurable registration form to capture the following information:
    - first name
    - last name
    - postal code (with customizable validation rules)
    - email address
    - mobile phone number
    - up to 4 custom fields, each can be of type:
      - text field
      - numeric field
      - date field with date picker
      - dropdown field with configurable items
  - optional verification of the collected email address or mobile phone number by sending a one-time password (**OTP**) to the guest through email or SMS/text message
  - Facebook Login:
    - allow users to register by logging in with their Facebook account
    - optionally request the user to share a specified URL or Facebook page
  - Instagram Login
    - allows users to register by logging in with their Instagram account
    - optionally redirect users to your Instagram profile page after a successful login giving them the option to follow your Instagram account
  - Microsoft Azure AD Login
    - allows users to register by logging in with their Azure AD/Microsoft account
    - Single-tenant, Multitenant, and Personal Microsoft accounts are supported
  - Sponsored Access:
    - allows guests to request access, to be approved by a sponsor
    - confirmations are sent via email or optionally via SMS message
  - Manual authorization:
    - allows administrators to manually grant network access to devices based on MAC address with a custom duration and speed limits
    - allows approved devices to bypass the captive portal

- UniFi Voucher Codes:
  - when enabled, users can also gain access using UniFi Voucher codes that were issued through the UniFi Hotspot Manager. All UniFi Voucher options are supported.
- store and process the collected information:
  - optionally add the collected email addresses and names to a selected **Mailchimp** mailing after each successful registration
  - optionally use one or more **Webhooks** for automated processing of the collected information in almost any 3<sup>rd</sup> party application (we recommend Zapier)
- supports functions for GDPR compliance when required
  - options to enable the following:
    - require explicit acceptance of the Terms of Service
    - require explicit acceptance of the Privacy Notice
    - request marketing consent
    - allow users to connect without sharing their personal information
      - controls are available to define specific bandwidth limits for these “anonymous” users
      - controls are available to limit the number of anonymous connections a user is allowed to make within a specified timeframe (e.g. a maximum of 2 connections of 1 hour each, per day)
  - ability to delete a registration with all related details and history from the captive portal and the UniFi controller
- various reports:
  - guest logins overview and analysis
  - user density heatmap
- a web-based backend to manage:
  - captive portal settings per site
  - captive portal styling (logo, background, colors, etc.) per site
  - captive portal language strings per site (multi-language support)
  - captive portal Terms of Service and Privacy Notice per site
  - and export the collected guest information to CSV or Excel
  - UniFi controller integration per site
  - Facebook integration per site
  - SMS Provider integration for SMS/text messages, per site
    - Twilio and most other SMS providers are supported
  - Mailchimp integration per site
  - Webhook URLs per site
  - the data retention period per site
  - admin accounts and assigning them to one or more sites
  - the theme used for the management back-end as well as the logo can be configured on a per-site basis

## License costs:

The **one-time license** fees for the captive portal software depend on the maximum number of captive portal sites you wish to manage;

single-site	<b>USD 695.00</b>
2 sites	<b>USD 1,095.00</b>
5 sites	<b>USD 1,595.00</b>
10 sites	<b>USD 1,995.00</b>
20 sites	<b>USD 2,995.00</b>
20 sites+	upon request

*Note: each captive portal site is connected to its own unique UniFi site, each UniFi site can be managed on a different UniFi controller.*

The license is **perpetual** and is granted for a single web server, no recurring fees are required.

## License upgrades:

The costs to upgrade from one volume tier to another, are equal to the price delta with the addition of an administration fee of **USD 45.00**. Please note that a license upgrade does not extend your current warranty period.

## Customizations:

We can use this captive portal software to implement any custom requirements you may have which shortens the development cycle and delivers a solution with a robust foundation.

## Payment terms:

The costs exclude sales taxes, if applicable, sales taxes are added to the invoices. Of the total costs, 60% is to be paid in advance through PayPal, Credit Card, or international bank transfer, and 40% is to be paid upon acceptance. Each stage is invoiced separately.

The costs include a warranty period of 6 months and 1 hour of installation effort to install the software on a server instance managed by yourself.

## Installation pre-requisites:

A preferably dedicated (virtual) server for us to install the software on. The server must meet the following minimal requirements:

- Linux-based operating system (Ubuntu 22.04 is preferred)
- PHP version 8.1 or higher is recommended
- at least 1GB of RAM
- at least 20GB of free disk storage
- can for example be an AWS t2.small EC2 instance or a basic DigitalOcean Droplet
- a user account with *sudo* permissions is required during the installation process

The final sizing of the server may need to be adjusted to match your specific requirements.

Your UniFi controller(s) should be at a recent **stable** release which can be version 5.10.X, 5.12.X, 5.14.X, 6.X.X, 7.X.X (7.4.162 has been confirmed), and be reachable from the captive portal server through port 8443 or 443 for UniFi OS Consoles.

## Delivery:

The delivery consists of the installation of the software on the server provided by you.

## Warranty:

We provide a warranty period of 6 months starting upon acceptance, to cover any defects that may arise in the software. After the warranty period expires support can be obtained on a time and material basis or through an optional support subscription.

## Optional support subscriptions:

To receive support after the warranty period we offer **optional** support subscriptions at 17% of the license costs per year. A support subscription offers the following:

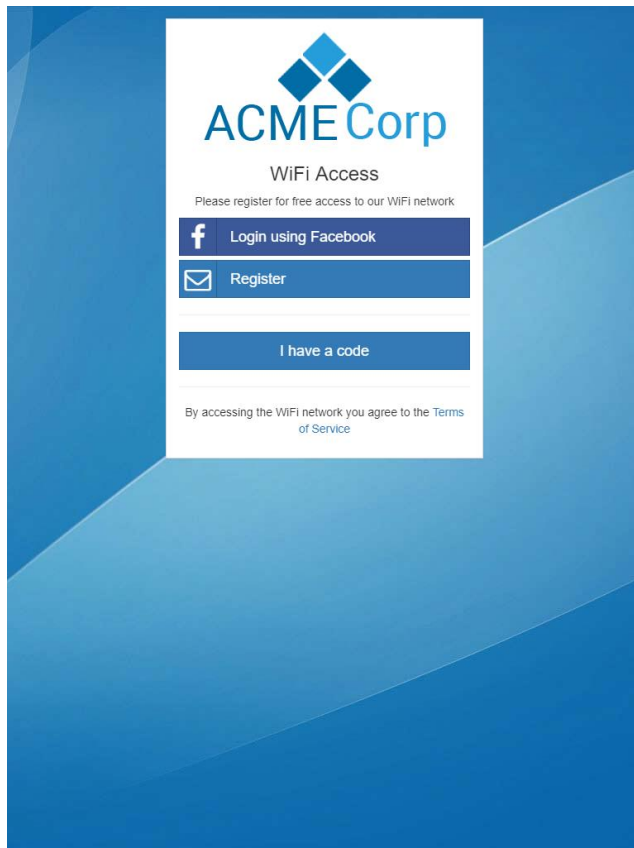
- email support
- bug fixes
- new releases, installed once every 3 months as required

## Appendix: captive portal solution screenshots

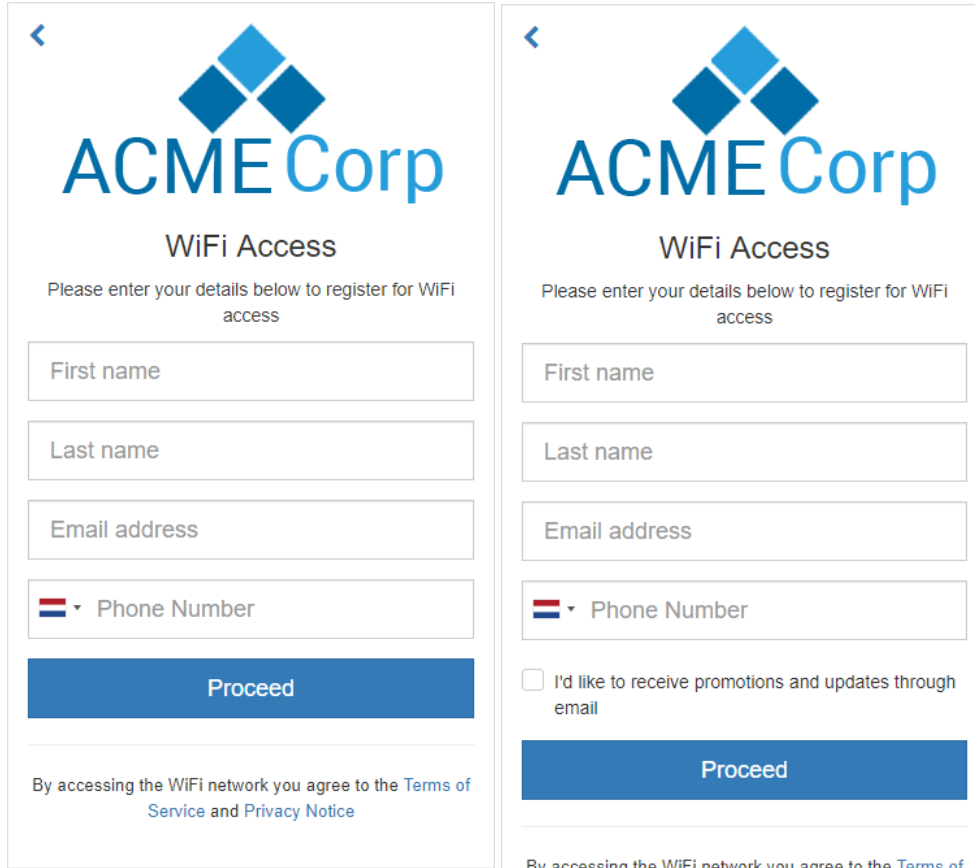
The default captive portal splash page at iPhone 6 resolution, demonstrating multi-language support and required acceptance of the Terms of Service and the Privacy Notice:



At iPad resolution:



The registration page at iPhone 6 resolution:



ACME Corp  
WiFi Access

Please enter your details below to register for WiFi access

First name

Last name

Email address

Phone Number

Proceed

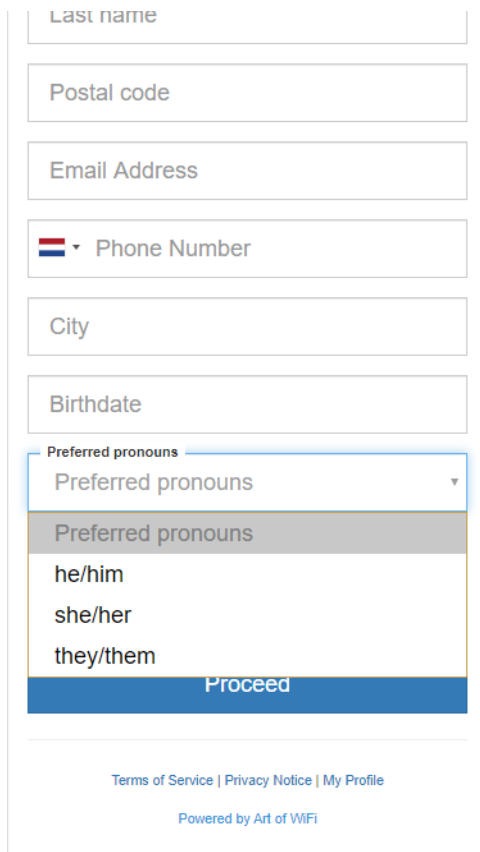
By accessing the WiFi network you agree to the [Terms of Service](#) and [Privacy Notice](#)

I'd like to receive promotions and updates through email

Proceed

By accessing the WiFi network you agree to the [Terms of](#)

The registration form with several custom fields added:



Last name

Postal code

Email Address

Phone Number

City

Birthdate

Preferred pronouns

Preferred pronouns

he/him

she/her

they/them

Proceed

[Terms of Service](#) | [Privacy Notice](#) | [My Profile](#)

Powered by Art of WiFi

The code submission form at iPhone 5 resolution:

ACME Corp

Please confirm registration using the code that was sent to you by text or email.

Access Code

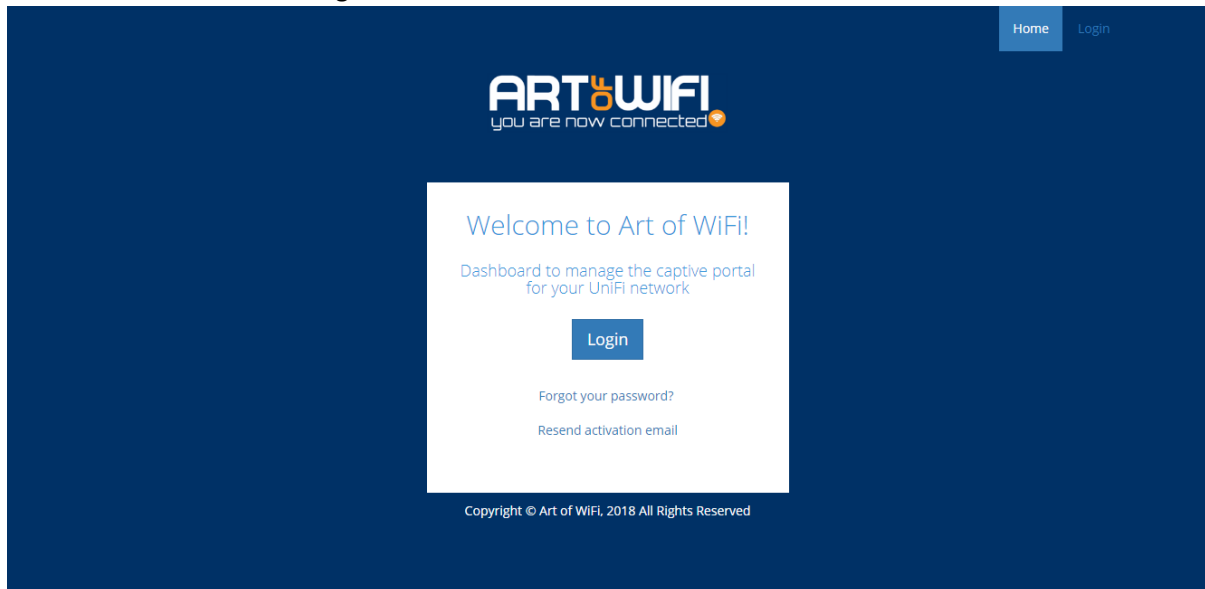
Connect

By accessing the WiFi network you agree to the [Terms of Service](#)

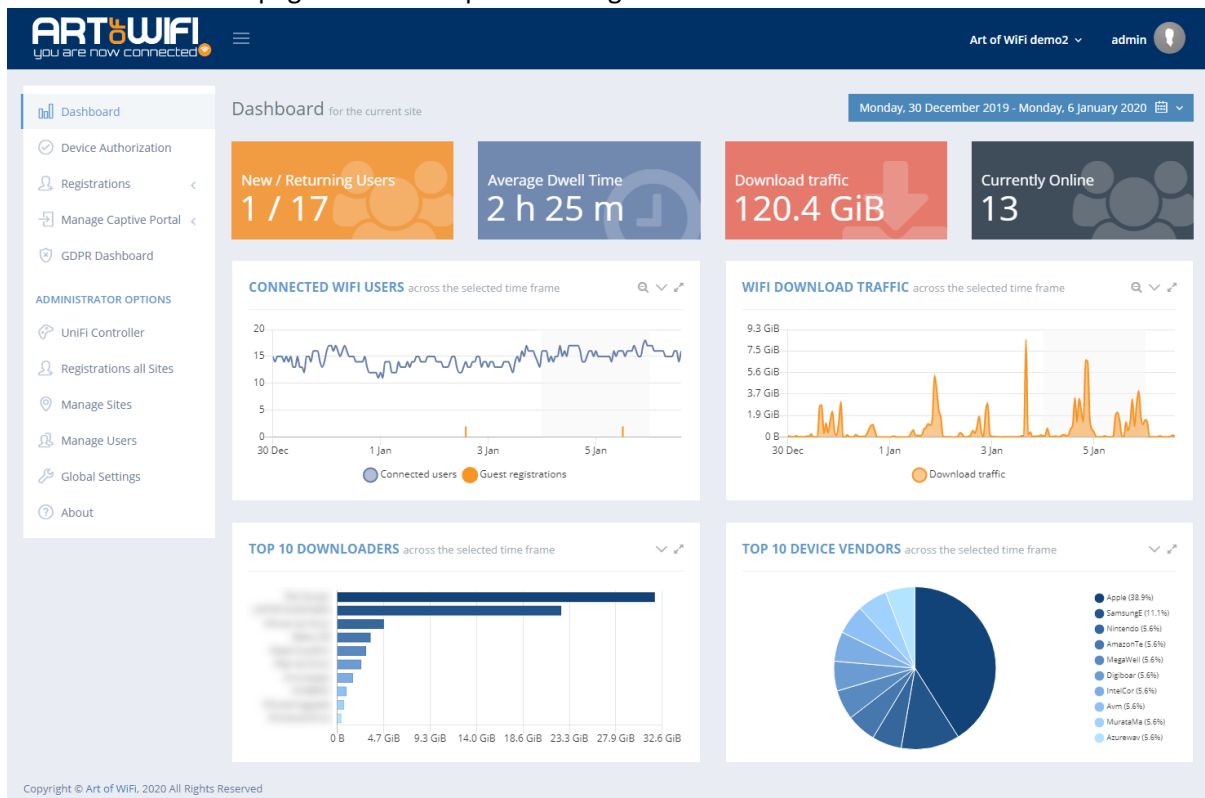
The results when a guest/patron used the Facebook share option:



Administrator dashboard login:



The main dashboard page and menu options for a global administrator:





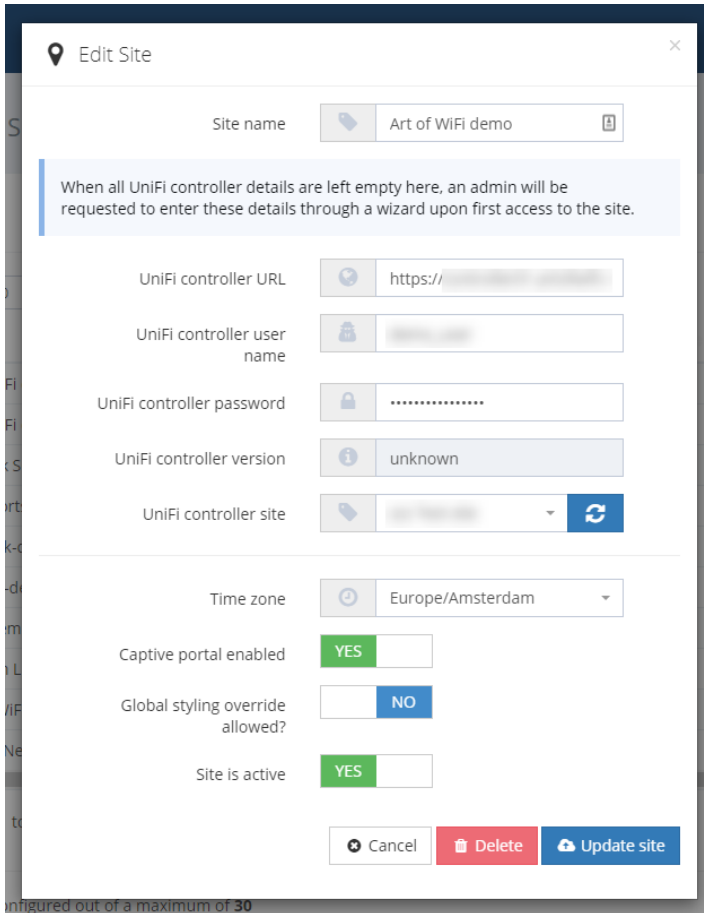
## Overview of guest registrations:



## User density heatmap:



## Manage sites:



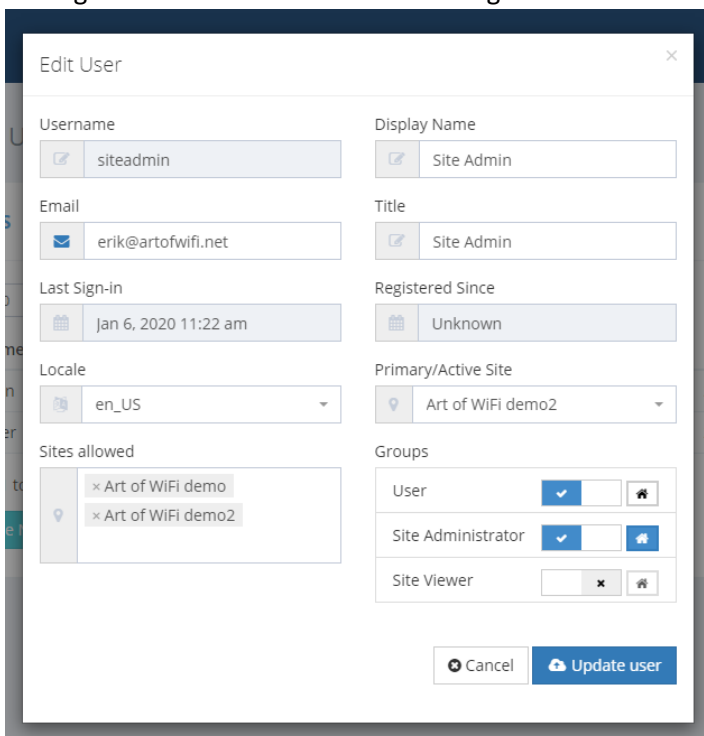
The 'Edit Site' window contains the following fields and controls:

- Site name: Art of WiFi demo
- UniFi controller URL: https://
- UniFi controller user name: [Redacted]
- UniFi controller password: [Redacted]
- UniFi controller version: unknown
- UniFi controller site: [Redacted]
- Time zone: Europe/Amsterdam
- Captive portal enabled: YES
- Global styling override allowed?: NO
- Site is active: YES

Buttons: Cancel, Delete, Update site

When all UniFi controller details are left empty here, an admin will be requested to enter these details through a wizard upon first access to the site.

## Manage administrator accounts and assign them to one or more sites:



The 'Edit User' window contains the following fields and controls:

- Username: siteadmin
- Display Name: Site Admin
- Email: erik@artofwifi.net
- Title: Site Admin
- Last Sign-in: Jan 6, 2020 11:22 am
- Registered Since: Unknown
- Locale: en\_US
- Primary/Active Site: Art of WiFi demo2
- Sites allowed: Art of WiFi demo, Art of WiFi demo2
- Groups: User, Site Administrator, Site Viewer

Buttons: Cancel, Update user

Main configuration page for the captive portal:

**ART of WiFi** you are now connected

Art of WiFi demo admin

### Captive Portal Settings

customize the behavior of the captive portal pages

#### SETTINGS

**General:**

- Enable Facebook login?  details in **Facebook login** section below
- Enable Instagram login?  details in **Instagram login** section below
- Enable AzureAD login?  details in **AzureAD login** section below
- Enable Registration form?  details in **Registration form** section below
- Enable Sponsored Access?
- Enable anonymous login?
- Accept UniFi Vouchers?
- Enable GDPR Dashboard?
- Enable Webhooks integration?  details in **Webhooks** section below

Access code length:

Promotional URL:

Redirect timeout:  milliseconds

Keep registration details:  days

**Terms of Service, Privacy Notice & Marketing Consent:**

**Registration form:**

**Facebook login:**

**Instagram login:**

**AzureAD login:**

**Webhooks:**

Test captive portal

Preview at iPhone 5 resolution:

ACME Corp

WiFi Access

Please register for **free** access to our WiFi network

Yes, I accept the [Terms of Service](#)

Yes I accept the [Privacy Notice](#)

## Settings for the registration form:

**Registration form:**

The settings below determine the contents and behavior of the form which is displayed when the user selects the **Registration** option.

Capture first name?  no

Capture last name?  no

Capture postal code?  no

Capture email address?  yes  required  verify

Capture phone number?  no

When capturing email addresses, please make sure to update the **optional Mailchimp settings** in this [section](#) as required.

Make sure to update the **required Temporary authorization** settings below

Enable custom field #1?  no

Enable custom field #2?  no

Enable custom field #3?  no

Enable custom field #4?  no

### An example custom field asking the guest for their preferred pronouns:

Enable custom field #4?  yes  required

Field type

Dropdown options

### An example custom field asking the guest for their birthdate with a minimum age of 18:

Enable custom field #3?  yes  required

Field type

Date format

Date input mask

End date

Date selector language

Configure the logo, background, styling options, and custom CSS for the captive portal:

The screenshot shows the 'Captive Portal Styling' configuration page. The left sidebar contains navigation options like Dashboard, Device Authorization, Registrations, and Manage Captive Portal. The main content area is titled 'STYLING' and includes sections for 'General Styling Attributes' (with color pickers for background, text, hyperlink, header, and border), 'Enable floating labels?' (set to 'yes'), and 'Button radius' (set to 0 px). There are also fields for 'Custom Logo image:', 'Custom Background image:', and 'Custom CSS:'. An 'Update Custom Styling' button is at the bottom. On the right, a 'Preview at iPhone 5 resolution:' shows a mobile view of the captive portal with the ACME Corp logo, 'WiFi Access' heading, registration instructions, terms and privacy notices, and buttons for 'Login using Facebook', 'Register', 'Connect without registration', and 'I have a code'.

Manage the text strings for the captive portal:

The screenshot shows the 'Captive Portal Text Labels' configuration page. The left sidebar is similar to the styling page. The main content area is titled 'TEXT LABELS' and includes a 'General:' section and a 'Registration form:' section. The 'Registration form:' section has a rich text editor for the 'Registration page sub heading' (containing 'Please enter your details below to register for WiFi access') and a text field for the 'Confirm page heading' (containing 'Welcome to the Network!'). There is also a rich text editor for the 'Confirm page sub heading' (containing 'To confirm your registration, please click on the link that has been sent to you.'). On the right, the 'Preview at iPhone 5 resolution:' shows the mobile view of the captive portal with the ACME Corp logo, 'WiFi Access' heading, registration instructions, terms and privacy notices, and buttons for 'Login using Facebook', 'Register', 'Connect without registration', and 'I have a code'.

Edit the email template to send out a one-time password to the user after their registration:

**Email:**

Email message subject:

**Instructions:**

If you insert any of the following tags (using capitals) in the HTML-formatted email message body below, it will be replaced by the corresponding value when the email confirmation message is sent after a successful registration:  
**ACCESS\_CODE, AUTO\_CONNECT\_LINK**

**NOTE:** the **AUTO\_CONNECT\_LINK** tag represents a full URL which can also be used in a link.

Email message body

File Edit View Insert Format Tools Table

↶ ↷ Paragraph ▼ **B** *I* 🔗

☰ ☰ ☰ ☰ ☰ ☰ ☰ ☰ <> 👁

Thank you for registering with our WiFi network.

Your access code is **ACCESS\_CODE**

You can enter this code in the form that is available from our WiFi registration page or you can connect your current device automatically by clicking [here](#).

The team

A list of the registration details with the option to download them to CSV or Excel:

**DETAILS** collected during the selected time frame

Completed  Pending

Show  entries Search:

Method	First name	Last name	Postal code	Email	Phone	Custom 1	Custom 2	Custom 3	Custom 4	Accept ToS	Acce
UniFi voucher										no	no
Facebook login										yes	yes
Registration form									he/him	yes	yes
Registration form									he/him	yes	yes
Registration form									he/him	yes	yes
Registration form									he/him	yes	yes
Registration form									he/him	yes	yes
Registration form									he/him	yes	yes
Registration form									they/them	yes	yes
Registration form									he/him	yes	yes

All

Showing 1 to 10 of 18 entries < Previous 1 2 Next >

Select columns
  Reset all filters

Manage and test the Webhooks:

### Webhooks:

The Webhooks option allows you to send the collected details to one or more specified URLs for further processing/storage upon a **new guest registration** or a **returning guest**. A number of automation providers allow you to connect these Webhooks with other applications to process and store the collected details. More general information on Webhooks can be found [here](#) and [here](#).

We published a [brief tutorial on Youtube](#) explaining how to configure and use Webhooks and Zapier to automatically add collected guest details to a Google Spreadsheet.

For each event type, up to five Webhook URLs can be added below. These can be Webhook URLs offered by [Zapier](#) (using their catch hook), [Automate.io](#) (using their incoming hook), [Wyzebulb](#), [Integromat](#), [Pipedream](#), or one you created yourself.

Make sure to check the features and pricing structures before selecting a provider.

[How to configure a Webhook with Zapier](#)

---

Webhook URLs:  
for new guest registrations

x https://[redacted].pipedream.net

x https://hooks.zapier.com/hooks/catch/[redacted]/

[Message format](#) [Send test message](#)

---

for returnings guests with an active registration

x https://[redacted].m.pipedream.net

[Message format](#) [Send test message](#)