



Ecosystems - Licenses and Acknowledgements

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The Ecosystem applications (Agent, Control API, Data API, Control Website, Composer, Root Network and CO2 Monitor) are distributed as compiled binaries and as container images. They include the third-party packages listed in Sections 6 and 7.

Section 2: Operating system and container runtime

The Compute runs Raspberry Pi OS, a Debian-based GNU/Linux distribution supplied by Raspberry Pi Ltd. It is made up of many independently licensed packages, including the Linux kernel under the GNU General Public License version 2 and other packages under the GNU GPL, GNU LGPL, BSD, MIT and other free-software licences. The licence of each installed package is available on the Compute under `/usr/share/doc/copyright`. Raspberry Pi firmware components are distributed under the terms that Raspberry Pi Ltd provides with them.

The Ecosystem installs Docker Engine (docker-ce, docker-ce-cli, containerd.io, and the Docker Buildx and Docker Compose plugins) from Docker's official package repository. Docker Engine and containerd are licensed under the Apache License 2.0. "Docker" is a trademark of Docker, Inc.

The Control Website runs in a container based on the official Node.js image on Alpine Linux. Node.js is licensed under the MIT License and includes third-party components under their own licences, listed at <https://github.com/nodejs/node/blob/main/LICENSE>. Alpine Linux packages are licensed under their respective licences.

Section 3: Home Assistant

The Ecosystem installs Home Assistant as the official container image published by the Home Assistant project at ghcr.io/home-assistant/home-assistant. Home Assistant is licensed under the Apache License 2.0; see <https://www.home-assistant.io/developers/license/>. The image contains additional components and integrations under their own licences.

Home Assistant is developed independently by the Open Home Foundation and its contributors. "Home Assistant" is a trademark of its owner. Its use does not imply endorsement of the baseworks.tech Ecosystem.

Section 4: MikroTik RouterOS

The Root Network router runs MikroTik RouterOS, which the Ecosystem can install, upgrade and configure. RouterOS is proprietary software of SIA Mikrotīkls (MikroTik). It is licensed to the owner of the router under the MikroTik end-user licence and the device's RouterOS licence level; see <https://mikrotik.com/>. RouterOS includes open-source components, such as the Linux kernel, under the GNU GPL and other licences. MikroTik makes the corresponding source code available as described on its website.

To recover or reinstall a router, the Root Network manager on the Compute can run MikroTik's netinstall tool. This tool is proprietary MikroTik software, supplied under MikroTik's terms. It runs inside a container built from the official Debian image and uses QEMU user-mode emulation from the tonistiigi/binfmt image. Debian packages are licensed under their respective free-software licences. QEMU is licensed under the GNU General Public License version 2. The binfmt tooling is licensed under the MIT License.

"MikroTik" and "RouterOS" are trademarks of SIA Mikrotīkls.

Section 5: Sensor and device firmware

Supported sensors, such as Apollo Automation AIR-1 and MSR-2 devices, run firmware supplied by their manufacturers. That firmware is built with ESPHome, which is licensed under the GNU General Public License version 3 and the MIT License as indicated in the ESPHome source code. The Ecosystem configures these devices over the local network. It does not modify or redistribute their firmware. The manufacturers' terms and licences apply to their devices and firmware; see <https://apolloautomation.com/> and <https://esphome.io/>.

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Devices integrated through Home Assistant, for example IKEA, Aqara, TP-Link Tapo, Sonoff, Shelly, Eve and Reolink products, remain subject to their manufacturers' terms, firmware licences and cloud-service terms.

Section 6: Control website JavaScript software

The control website is built with the following direct production dependencies.

Component	Licence
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@happy-dom/global-registrator	MIT
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@mdi/js	Apache-2.0
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@mdi/react MIT

@reduxjs/toolkit MIT

express MIT

gsap GSAP Standard "No Charge" License (see Section 9)

js-yaml MIT

mathjs Apache-2.0

motion MIT

ogl Unlicense

qrcode MIT

react MIT

react-blurhash MIT

react-countdown-circle-timer MIT

react-datepicker MIT

react-dom MIT

react-loading-skeleton MIT

react-redux MIT

react-spinners MIT

These packages bring in 140 runtime subdependencies under compatible independent licences: MIT (125), ISC (11), Python-2.0 (1), BSD-2-Clause (1), BSD-3-Clause (1), 0BSD (1). The complete list follows. The package metadata and licence files in the locked production dependency tree form part of this notice. Build-time and development-only tools (such as Vite, TypeScript, Tailwind CSS and the JavaScript obfuscator) are not distributed as runtime packages and are therefore not listed. Tailwind CSS (MIT License) generates part of the control website's style sheet.

Component Licence

@babel/runtime MIT

@floating-ui/core MIT

@floating-ui/dom MIT



@floating-ui/react MIT
@floating-ui/react-dom MIT
@floating-ui/utils MIT
@standard-schema/spec MIT
@standard-schema/utils MIT
@types/node MIT
@types/use-sync-external-store MIT
@types/whatwg-mimetype MIT
@types/ws MIT
accepts MIT
ansi-regex MIT
ansi-styles MIT
argparse Python-2.0
blurhash MIT
body-parser MIT
buffer-image-size MIT
bytes MIT
call-bind-apply-helpers MIT
call-bound MIT
camelcase MIT
cliui ISC
clsx MIT
color-convert MIT
color-name MIT
complex.js MIT



content-disposition MIT

content-type MIT

content-type MIT

content-type MIT

cookie MIT

cookie-signature MIT

date-fns MIT

debug MIT

decamelize MIT

decimal.js MIT

depd MIT

dijkstrajs MIT

dunder-proto MIT

ee-first MIT

emoji-regex MIT

encodeurl MIT

entities BSD-2-Clause

es-define-property MIT

es-errors MIT

es-object-atoms MIT

escape-html MIT

escape-latex MIT

etag MIT

finalhandler MIT

find-up MIT



forwarded MIT

fraction.js MIT

framer-motion MIT

fresh MIT

function-bind MIT

get-caller-file ISC

get-intrinsic MIT

get-proto MIT

gopd MIT

happy-dom MIT

has-symbols MIT

hasown MIT

http-errors MIT

iconv-lite MIT

immer MIT

inherits ISC

ipaddr.js MIT

is-fullwidth-code-point MIT

is-promise MIT

javascript-natural-sort MIT

js-tokens MIT

locate-path MIT

loose-envify MIT

math-intrinsics MIT

media-typer MIT



merge-descriptors MIT

mime-db MIT

mime-types MIT

motion-dom MIT

motion-utils MIT

ms MIT

negotiator MIT

object-assign MIT

object-inspect MIT

on-finished MIT

once ISC

p-limit MIT

p-locate MIT

p-try MIT

parseurl MIT

path-exists MIT

path-to-regexp MIT

pngjs MIT

prop-types MIT

proxy-addr MIT

qs BSD-3-Clause

range-parser MIT

raw-body MIT

react-is MIT

redux MIT



redux-thunk MIT

require-directory MIT

require-main-filename ISC

reselect MIT

router MIT

safer-buffer MIT

scheduler MIT

seedrandom MIT

send MIT

serve-static MIT

set-blocking ISC

setprototypeof ISC

side-channel MIT

side-channel-list MIT

side-channel-map MIT

side-channel-weakmap MIT

statuses MIT

string-width MIT

strip-ansi MIT

tabbable MIT

tiny-emitter MIT

toidentifier MIT

tslib 0BSD

type-is MIT

typed-function MIT



undici-types MIT

unpipe MIT

use-sync-external-store MIT

vary MIT

whatwg-mimetype MIT

which-module ISC

wrap-ansi MIT

wrappy ISC

ws MIT

y18n ISC

yargs MIT

yargs-parser ISC

The npm "argparse" package is a port of Python's argparse module and is distributed under the Python Software Foundation License 2.0.

Section 7: Python software in Ecosystem applications

The Ecosystem applications written in Python are compiled into stand-alone executables with PyInstaller. PyInstaller is licensed under the GNU General Public License version 2 or later, with a special exception that allows its bootloader to be used in executables under any licence. Each executable embeds the CPython interpreter and standard library, licensed under the Python Software Foundation License 2.0 (<https://docs.python.org/3/license.html>), together with the following packages:

Component	Licence	Used by
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annotated-doc	MIT	All applications
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annotated-types	MIT	All applications
-----------------	-----	------------------

anyio	MIT	All applications
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bcrypt	Apache-2.0	root-network
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cffi	MIT-0	control-api, data-api, root-network
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click BSD-3-Clause All applications

cryptography Apache-2.0 OR BSD-3-Clause control-api, data-api, root-network

fastapi MIT All applications

h11 MIT All applications

idna BSD-3-Clause All applications

invoke BSD-2-Clause root-network

jinja2 BSD composer

markupsafe BSD-3-Clause composer

opentelemetry-api Apache-2.0 All applications

paramiko LGPL-2.1 root-network

psutil BSD-3-Clause root-network

pycparser BSD-3-Clause control-api, data-api, root-network

pydantic MIT All applications

pydantic-core MIT All applications

pynacl Apache-2.0 root-network

pyyaml MIT agent, composer, control-api, data-api

routeros-api MIT root-network

starlette BSD-3-Clause All applications

typing-extensions PSF-2.0 All applications

typing-inspection MIT All applications

uvicorn BSD-3-Clause All applications

websockets BSD composer

paramiko is licensed under the GNU Lesser General Public License version 2.1. As permitted by that licence, it is included unmodified in the Root Network manager. You may obtain its source code from <https://github.com/paramiko/paramiko> or through the offer in Section 16.

The cryptography package is offered under either the Apache License 2.0 or the BSD 3-Clause License. The Ecosystem uses it under the Apache License 2.0. It includes OpenSSL, which is licensed under the Apache License 2.0.

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- Nunito Sans: Copyright 2016 The Nunito Sans Project Authors (<https://github.com/Fonthausen/NunitoSans>).
- Roboto Mono: Copyright 2015 The Roboto Mono Project Authors (<https://github.com/googlefonts/robotomono>).
- Sue Ellen Francisco: Copyright (c) 2010, Kimberly Geswein (kimberlygeswein.com).

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The control website uses the following:

- Material Design Icons, through the @mdi/js and @mdi/react packages. The icons are published by Pictogrammers under the Apache License 2.0 and the code under the MIT License; see <https://pictogrammers.com/docs/general/license/>.
- React Bits visual components. Several background and effect components are adapted from React Bits by David Haz (<https://github.com/DavidHDev/react-bits>). They are licensed under the MIT License with the Commons Clause License Condition v1.0, which permits use within products but not the sale or redistribution of the components themselves.
- GSAP (GreenSock Animation Platform), used under the GSAP Standard "No Charge" License; see <https://gsap.com/standard-license>. GSAP is not open-source software. Its use in the Ecosystem is governed by that licence.
- BlurHash, through react-blurhash. BlurHash is an algorithm and implementation by Wolt, licensed under the MIT License (<https://github.com/woltapp/blurhash>).
- OGL, a WebGL library licensed under the Unlicense.

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Version 2.0, January 2004

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SIL OPEN FONT LICENSE Version 1.1 - 26 February 2007

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- Debian: <https://sources.debian.org/>
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Postal correspondence:

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