


# PyWa • Python wrapper for the WhatsApp Cloud API

## Contents

- 📄 Quick Documentation Index
- ⚡ Features
- 🧑 Usage
- 🛠 Installation
- 💾 Requirements
- 📖 Setup and Usage
- ✅ TODO
- ⚖ License
- 🏗 Contributing
- 📝 Changelog
- 🔗 Contents



---

downloads	9.8k/month	pypi package	1.25.0	Tests	passing	docs	passing	license	MIT	codefactor	A
 Telegram											

---

**PyWa is a Fast, Simple, Modern and easy-to-use asynchronous Python framework for building WhatsApp bots using the WhatsApp Cloud API.**



# Quick Documentation Index

[Get Started](#) • [WhatsApp Client](#) • [Handlers](#) • [Filters](#) • [Updates](#) • [Flows](#) • [Examples](#)



## Features

- Fast and simple to use. No need to worry about the low-level details.
- Send text messages with interactive keyboards, images, videos, documents, audio, locations, contacts, etc.
- Receive messages, callbacks, message status updates, etc.
- Create, send and listen to Flows (NEW!)
- Built-in support for webhooks (Flask, FastAPI, etc.)
- Filters for handling incoming updates
- Send and create templates
- Fully typed, documented and tested



## Usage

- Create a WhatsApp client and send a message ..

See [Getting Started](#) for more information.

```
from pywa import WhatsApp

wa = WhatsApp(
    phone_id="100458559237541",
    token="EAAEZC6hUxkTIB"
)

wa.send_message(
    to="9876543210",
    text="Hello from PyWa!"
)
```

- To listen to updates, create a `WhatsApp` client, pass a web server app ([FastAPI](#) in this example) and register callbacks:

See [Handlers](#) for more information.

```
# wa.py
from pywa import WhatsApp, filters
from pywa.types import Message, CallbackButton, Button
from fastapi import FastAPI

fastapi_app = FastAPI()
wa = WhatsApp(
    phone_id="1234567890",
    token="xxxxxxx",
    server=fastapi_app,
    callback_url="https://yourdomain.com/",
    verify_token="xyz123",
    app_id=123456,
    app_secret="yyyyyy"
)

@wa.on_message(filters.matches("Hello", "Hi"))
def hello(client: WhatsApp, msg: Message):
    msg.react("👏")
    msg.reply_text(
        text=f"Hello {msg.from_user.name}!",
        buttons=[
            Button(
                title="Click me!",
                callback_data="id:123"
            )
        ]
    )

@wa.on_callback_button(filters.startswith("id"))
def click_me(client: WhatsApp, clb: CallbackButton):
    clb.reply_text("You clicked me!")
```

- To run the server, use [fastapi-cli](#) (`pip install "fastapi[standard]"`):

```
fastapi dev wa.py # see uvicorn docs for more options (port, host, reload, etc.)
```

## 🔄 Async Usage

- PyWa has async support! To use the async version, replace all the imports from `pywa` to `pywa_async` and use `async` / `await`:

```
# wa.py
import fastapi
from pywa_async import WhatsApp, types

fastapi_app = fastapi.FastAPI()
wa = WhatsApp(..., server=fastapi_app)

async def main():
    await wa.send_message(...)

@wa.on_message()
async def hello(_: WhatsApp, msg: types.Message):
    await msg.react("👉")
    await msg.reply(...)
```

```
fastapi dev wa.py
```



## Installation

- **Install using pip3:**

```
pip3 install -U pywa
```

- **Install from source (the bleeding edge):**

```
pip3 install -U git+https://github.com/david-lev/pywa.git
```

- **If you going to use the webhook features, here is shortcut to install the required dependencies:**

```
pip3 install -U "pywa[fastapi]"
pip3 install -U "pywa[flask]"
```

- **If you going to use the Flow features and want to use the default FlowRequestDecryptor and the default FlowResponseEncryptor, here is shortcut to install the required dependencies:**

```
pip3 install -U "pywa[cryptography]"
```



## Requirements

- Python 3.10 or higher - <https://www.python.org>



## Setup and Usage

See the [Documentation](#) for detailed instructions



## TODO

- ~~Add support for async~~
- ~~Add support for more web frameworks (Django, aiohttp, etc.)~~
- ~~Add support for flows~~
- Add support for more types of updates (`account_alerts`, `phone_number_quality_updates`, `template_category_updates`, etc.)
- Add more examples and guides

Feel free to open an issue if you have any suggestions. or even better - submit a PR!



## License

This project is licensed under the MIT License - see the [LICENSE](#) file for details



## Contributing

Contributions are welcome! Please feel free to submit a Pull Request.



## Changelog

NOTE: pywa follows the [semver](#) versioning standard.

## 1.25.0 (2024-08-15) Latest

- [handlers] adding priority

- [client] adding QR methods (create update get and delete)
- [client] adding `get_flow_metrics` method
- [flows] adding to `DataSource` support for images/colors
- [flows] support `datetime` objs in `DatePicker`
- [flows] support `Screen` when using `.data_key_of(...)` and `.form_ref_of(...)`
- [flows] update flow json with indent and without ensuring ascii
- [flows] adding `health_status` to `FlowDetails`

## 1.24.0 (2024-07-26)

- [server] validating `X-Hub-Signature-256` header
- [requirements] removing `requests`
- [server] default callback url registration delay to 3 sec

## 1.23.0 (2024-07-14)

- [client] allowing to manage multiple numbers from the same client (Partner solutions)
- [flows] adding `.respond()` shortcut for `FlowRequest`
- [flows] allowing body in `FlowResponseError` subclasses

For full changelog, see [here](#).



## Contents



### [Get Started](#)



#### [Installation](#)

#### [Create a WhatsApp Application](#)

#### [Setup the App](#)

#### [Send a Message](#)

#### [Quick Start](#)



### [Client](#)

#### [WhatsApp](#)

#### [WhatsApp.\\_\\_init\\_\\_\(\)](#)

## Client Reference

[`WhatsApp.send\_message\(\)`](#)

[`WhatsApp.send\_image\(\)`](#)

[`WhatsApp.send\_video\(\)`](#)

[`WhatsApp.send\_audio\(\)`](#)

[`WhatsApp.send\_document\(\)`](#)

[`WhatsApp.send\_location\(\)`](#)

[`WhatsApp.send\_contact\(\)`](#)

[`WhatsApp.send\_sticker\(\)`](#)

[`WhatsApp.send\_catalog\(\)`](#)

[`WhatsApp.send\_template\(\)`](#)

[`WhatsApp.send\_product\(\)`](#)

[`WhatsApp.send\_products\(\)`](#)

[`WhatsApp.send\_reaction\(\)`](#)

[`WhatsApp.remove\_reaction\(\)`](#)

[`WhatsApp.mark\_message\_as\_read\(\)`](#)

[`WhatsApp.upload\_media\(\)`](#)

[`WhatsApp.download\_media\(\)`](#)

[`WhatsApp.get\_media\_url\(\)`](#)

[`WhatsApp.get\_business\_profile\(\)`](#)

[`WhatsApp.get\_business\_phone\_number\(\)`](#)

[`WhatsApp.update\_business\_profile\(\)`](#)

[`WhatsApp.update\_conversational\_automation\(\)`](#)

[`WhatsApp.set\_business\_public\_key\(\)`](#)

[`WhatsApp.get\_commerce\_settings\(\)`](#)

[`WhatsApp.update\_commerce\_settings\(\)`](#)

[`WhatsApp.create\_template\(\)`](#)

[`WhatsApp.create\_flow\(\)`](#)

[`WhatsApp.update\_flow\_metadata\(\)`](#)

[`WhatsApp.update\_flow\_json\(\)`](#)

[`WhatsApp.publish\_flow\(\)`](#)

[`WhatsApp.delete\_flow\(\)`](#)[`WhatsApp.deprecate\_flow\(\)`](#)[`WhatsApp.get\_flow\(\)`](#)[`WhatsApp.get\_flows\(\)`](#)[`WhatsApp.get\_flow\_metrics\(\)`](#)[`WhatsApp.get\_flow\_assets\(\)`](#)[`WhatsApp.register\_phone\_number\(\)`](#)[`WhatsApp.create\_qr\_code\(\)`](#)[`WhatsApp.get\_qr\_code\(\)`](#)[`WhatsApp.get\_qr\_codes\(\)`](#)[`WhatsApp.update\_qr\_code\(\)`](#)[`WhatsApp.delete\_qr\_code\(\)`](#)[`WhatsApp.webhook\_update\_handler\(\)`](#)[`WhatsApp.webhook\_challenge\_handler\(\)`](#)[`WhatsApp.get\_flow\_request\_handler\(\)`](#)

## [API Reference](#)

[`WhatsAppCloudApi.send\_raw\_request\(\)`](#)

## [Handlers](#)

[Automatically registering the callback url](#)[Registering the callback url manually in the WhatsApp App Dashboard](#)[Registering a callback function](#)[Using decorators](#)[Using `Handler` objects](#)[Stop or continue handling updates](#)[Validating the updates](#)[Available handlers](#)[Handler Decorators](#)[`WhatsApp.on\_message\(\)`](#)[`WhatsApp.on\_callback\_button\(\)`](#)[`WhatsApp.on\_callback\_selection\(\)`](#)[`WhatsApp.on\_flow\_completion\(\)`](#)[`WhatsApp.on\_flow\_request\(\)`](#)



[WhatsApp.on\\_message\\_status\(\)](#)[WhatsApp.on\\_chat\\_opened\(\)](#)[WhatsApp.on\\_template\\_status\(\)](#)[WhatsApp.on\\_raw\\_update\(\)](#)[WhatsApp.remove\\_callbacks\(\)](#)

## Handler Objects

[WhatsApp.add\\_handlers\(\)](#)[WhatsApp.add\\_flow\\_request\\_handler\(\)](#)[WhatsApp.remove\\_handlers\(\)](#)[MessageHandler](#)[CallbackButtonHandler](#)[CallbackSelectionHandler](#)[FlowCompletionHandler](#)[FlowRequestHandler](#)[MessageStatusHandler](#)[ChatOpenedHandler](#)[TemplateStatusHandler](#)[RawUpdateHandler](#)

## Updates

### Message

[Message](#)[Message.has\\_media](#)[Message.is\\_reply](#)[Message.media](#)[Message.download\\_media\(\)](#)[Message.copy\(\)](#)[MessageType](#)

### Callback Button

[CallbackButton](#)

### Callback Selection

[CallbackSelection](#)

### Flow Completion

## [FlowCompletion](#)

### [Message Status](#)

#### [MessageStatus](#)

#### [MessageStatusType](#)

### [Chat Opened](#)

#### [ChatOpened](#)

### [Template Status](#)

#### [TemplateStatus](#)

##### [TemplateStatus.TemplateEvent](#)

##### [TemplateStatus.TemplateRejectionReason](#)

### [Common methods](#)

#### [BaseUpdate](#)

##### [BaseUpdate.id](#)

##### [BaseUpdate.timestamp](#)

##### [BaseUpdate.stop\\_handling\(\)](#)

##### [BaseUpdate.continue\\_handling\(\)](#)

#### [BaseUserUpdate](#)

##### [BaseUserUpdate.sender](#)

##### [BaseUserUpdate.recipient](#)

##### [BaseUserUpdate.message\\_id\\_to\\_reply](#)

##### [BaseUserUpdate.reply\\_text\(\)](#)

##### [BaseUserUpdate.reply\\_image\(\)](#)

##### [BaseUserUpdate.reply\\_video\(\)](#)

##### [BaseUserUpdate.reply\\_document\(\)](#)

##### [BaseUserUpdate.reply\\_audio\(\)](#)

##### [BaseUserUpdate.reply\\_sticker\(\)](#)

##### [BaseUserUpdate.reply\\_location\(\)](#)

##### [BaseUserUpdate.reply\\_contact\(\)](#)

##### [BaseUserUpdate.react\(\)](#)

##### [BaseUserUpdate.unreact\(\)](#)

##### [BaseUserUpdate.reply\\_catalog\(\)](#)

##### [BaseUserUpdate.reply\\_product\(\)](#)

[`BaseUserUpdate.reply\_products\(\)`](#)[`BaseUserUpdate.reply\_template\(\)`](#)[`BaseUserUpdate.mark\_as\_read\(\)`](#)

## [Flows](#)

[Creating Flow](#)[Sending Flow](#)[Handling Flow requests and responding to them](#)[Getting Flow Completion message](#)[Flow JSON](#)[`FlowJSON`](#)[`Screen`](#)[`ScreenData`](#)[`Layout`](#)[`LayoutType`](#)[`Form`](#)[`TextHeading`](#)[`TextSubheading`](#)[`TextBody`](#)[`TextCaption`](#)[`FontWeight`](#)[`TextInput`](#)[`InputType`](#)[`TextArea`](#)[`CheckboxGroup`](#)[`RadioButtonsGroup`](#)[`Footer`](#)[`OptIn`](#)[`Dropdown`](#)[`EmbeddedLink`](#)[`DatePicker`](#)[`Image`](#)

[ScaleType](#)[PhotoPicker](#)[PhotoSource](#)[DocumentPicker](#)[If](#)[Switch](#)[DataSource](#)[Action](#)[FlowActionType](#)[ActionNext](#)[ActionNextType](#)[DataKey](#)[FormRef](#)

## [Flow Types](#)

[FlowRequest](#)[FlowRequest.respond\(\)](#)[FlowRequest.has\\_error](#)[FlowRequest.is\\_health\\_check](#)[FlowRequestActionType](#)[FlowResponse](#)[FlowCategory](#)[FlowDetails](#)[FlowDetails.publish\(\)](#)[FlowDetails.delete\(\)](#)[FlowDetails.deprecate\(\)](#)[FlowDetails.get\\_assets\(\)](#)[FlowDetails.update\\_metadata\(\)](#)[FlowDetails.update\\_json\(\)](#)[FlowStatus](#)[FlowPreview](#)[FlowValidationError](#)

[`FlowAsset`](#)[`FlowMetricName`](#)[`FlowMetricGranularity`](#)[`FlowResponseError`](#)[`FlowTokenNoLongerValid`](#)[`FlowRequestSignatureAuthenticationFailed`](#)[`FlowRequestDecryptor`](#)[`FlowResponseEncryptor`](#)[`default\_flow\_request\_decryptor\(\)`](#)[`default\_flow\_response\_encryptor\(\)`](#)[`flow\_request\_media\_decryptor\_sync\(\)`](#)[`flow\_request\_media\_decryptor\_async\(\)`](#)[`FlowRequestCallbackWrapper`](#)[`FlowRequestCallbackWrapper.on\(\)`](#)[`FlowRequestCallbackWrapper.on\_errors\(\)`](#)[`FlowRequestCallbackWrapper.add\_handler\(\)`](#)[`FlowRequestCallbackWrapper.set\_errors\_handler\(\)`](#)

## [Filters](#)

[Combining Filters](#)[Custom Filters](#)[Built-in Filters](#)[Common filters](#)[`all\_\(\)`](#)[`any\_\(\)`](#)[`not\_\(\)`](#)[`sent\_to\(\)`](#)[`filters.sent\_to\_me`](#)[`from\_users\(\)`](#)[`from\_countries\(\)`](#)[`matches\(\)`](#)[`contains\(\)`](#)

[`startswith\(\)`](#)

[`endswith\(\)`](#)

[`regex\(\)`](#)

## [Message Filters](#)

[`filters.forwarded`](#)

[`filters.forwarded\_many\_times`](#)

[`filters.reply`](#)

[`replays\_to\(\)`](#)

[`filters.has\_referred\_product`](#)

[`text`](#)

[`text.length\(\)`](#)

[`text.is\_command\(\)`](#)

[`text.command\(\)`](#)

[`media`](#)

[`media.mimetypes\(\)`](#)

[`media.extensions\(\)`](#)

[`image`](#)

[`image.has\_caption`](#)

[`video`](#)

[`video.has\_caption`](#)

[`audio`](#)

[`audio.voice`](#)

[`audio.audio`](#)

[`document`](#)

[`document.has\_caption`](#)

[`sticker`](#)

[`sticker.animated`](#)

[`sticker.static`](#)

[`reaction`](#)

[`reaction.added`](#)

[`reaction.removed`](#)

[`reaction.emojis\(\)`](#)

## `location`

`location.current_location`

`location.in_radius()`

## `contacts`

`contacts.has_wa`

`contacts.count()`

`contacts.phones()`

## `order`

`order.price()`

`order.count()`

`order.has_product()`

## `unsupported`

## Message Status Filters

### `message_status`

`message_status.sent`

`message_status.delivered`

`message_status.read`

`message_status.failed`

`message_status.failed_with()`

## Template Status Filters

### `template_status`

`template_status.template_name`

`template_status.on_event()`

`template_status.on_rejection_reason()`

## Errors

### Base Exception

#### `WhatsAppError`

### Sending Messages Errors

#### `SendMessageError`

#### `MessageUndeliverable`

#### `ReEngagementMessage`

#### `UnsupportedMessageType`

[RecipientNotInAllowedList](#)[InvalidParameter](#)[MissingRequiredParameter](#)[MediaDownloadError](#)[MediaUploadError](#)[TemplateParamCountMismatch](#)[TemplateParamFormatMismatch](#)[TemplateNotExists](#)[TemplateTextTooLong](#)[GenericError](#)[UnknownError](#)[AccessDenied](#)[ServiceUnavailable](#)[RecipientCannotBeSender](#)[BusinessPaymentIssue](#)[IncorrectCertificate](#)[AccountInMaintenanceMode](#)

## Flows Errors

[FlowError](#)[FlowBlockedByIntegrity](#)[FlowUpdatingError](#)[FlowPublishingError](#)[FlowDeprecatingError](#)[FlowDeletingError](#)

## Authorization Errors

[AuthorizationError](#)[AuthException](#)[APIMethod](#)[PermissionDenied](#)[ExpiredAccessToken](#)[APIPermission](#)



## Rate Limit Errors

[ThrottlingError](#)[ToManyAPICalls](#)[RateLimitIssues](#)[RateLimitHit](#)[SpamRateLimitHit](#)[ToManyMessages](#)

## Integrity Errors

[IntegrityError](#)[TemporarilyBlocked](#)[AccountLocked](#)

## Types

### Media

[Image](#)[Video](#)[Audio](#)[Document](#)[Sticker](#)[BaseMedia.extension](#)[BaseMedia.get\\_media\\_url\(\)](#)[BaseMedia.download\(\)](#)[BaseMedia.from\\_flow\\_completion\(\)](#)[MediaUrlResponse](#)

### Keyboard

[Button](#)[ButtonUrl](#)[SectionList](#)[Section](#)[SectionRow](#)[FlowButton](#)[CallbackData](#)

[CallbackDataT](#)[\\_CallbackDataFactoryT](#)[ProductsSection](#)

## [Template](#)

[NewTemplate](#)[NewTemplate.Category](#)[NewTemplate.Text](#)[NewTemplate.Body](#)[NewTemplate.AuthBody](#)[NewTemplate.Footer](#)[NewTemplate.PhoneNumberButton](#)[NewTemplate.UrlButton](#)[NewTemplate.QuickReplyButton](#)[NewTemplate.OTPButton](#)[NewTemplate.OTPButton.OtpType](#)[NewTemplate.MPMBButton](#)[NewTemplate.CatalogButton](#)[NewTemplate.CopyCodeButton](#)[Template](#)[Template.TextValue](#)[Template.Currency](#)[Template.DateTime](#)[Template.QuickReplyButtonData](#)[Template.UrlButtonValue](#)[Template.OTPButtonCode](#)[Template.MPMBButton](#)[Template.CatalogButton](#)[Template.CopyCodeButton](#)[Language](#)[TemplateResponse](#)

## [Message Fields](#)

## [Reaction](#)

[Reaction.is\\_removed](#)

## [Location](#)

[Location.current\\_location](#)

[Location.in\\_radius\(\)](#)

## [Contact](#)

[Contact.to\\_dict\(\)](#)

[Contact.as\\_vcard\(\)](#)

[Contact.Name](#)

[Contact.Phone](#)

[Contact.Email](#)

[Contact.Url](#)

[Contact.Org](#)

[Contact.Address](#)

## [Product](#)

[Product.total\\_price](#)

## [Order](#)

[Order.total\\_price](#)

## [ReferredProduct](#)

## [System](#)

## [User](#)

## [ReplyToMessage](#)

## [Metadata](#)

## [Conversation](#)

## [ConversationCategory](#)

## [Others](#)

### [BusinessProfile](#)

### [BusinessPhoneNumber](#)

### [ConversationalAutomation](#)

### [QRCode](#)

### [Command](#)

[CommerceSettings](#)[Industry](#)[WhatsAppBusinessAccount](#)[FacebookApplication](#)[Version](#)[StopHandling](#)[ContinueHandling](#)

## [Examples](#)

### [Demo Bots](#)

[!\[\]\(758ebdf4629c903da74c2e079717ae32\_img.jpg\) Hello Bot](#)[!\[\]\(fe3aebe81acea8d45108cd2768939da7\_img.jpg\) Echo Bot](#)[!\[\]\(626ce8ac21792b9405bfddfea8e0c96a\_img.jpg\) Url Uploader Bot](#)[!\[\]\(a8f9309f944226d1420f5fed22e2b6e6\_img.jpg\) Calculator WhatsApp Bot](#)[!\[\]\(248b91fcdac4810ffd15cf33fb6aec6f\_img.jpg\) Translator Bot](#)[!\[\]\(899d8b7697d64725bf017d3296cfcf1b\_img.jpg\) Random image bot](#)[!\[\]\(c1168d6a8b365d11e842ece304635fa7\_img.jpg\) Remove background from image](#)

### [Sending Messages](#)

[Sending a text message](#)

### [Sending Interactive Messages](#)

[Send a message with selection keyboard](#)[Send a message with buttons keyboard](#)

### [Sending Media Messages](#)

[Sending media from URL](#)[Sending media from local file](#)[Sending media from file id](#)[Sending media from bytes](#)

### [Sign Up Flow](#)

[Start Screen](#)[Sign Up Screen](#)[Sign In Screen](#)[Login Success Screen](#)[Creating the Flow](#)

[Storing Users](#)

[Sending the Flow](#)

[Handling Sign Up Flow Requests](#)

[Handling Login Flow Requests](#)

[Handling the Flow Requests](#)

[Handling Flow Completion](#)

[Running the Server](#)

[What's Next?](#)

[Creating and Sending Template Messages](#)

[Create Template](#)

[Create Authentication Template](#)

[Sending Template Messages](#)

[Sending Authentication Template Messages](#)



## **Changelog**

[1.25.0 \(2024-08-15\) \*\*Latest\*\*](#)

[1.24.0 \(2024-07-26\)](#)

[1.23.0 \(2024-07-14\)](#)

[1.22.0 \(2024-06-16\)](#)

[1.21.0 \(2024-06-14\)](#)

[1.20.2 \(2024-06-02\)](#)

[1.20.1 \(2024-06-02\)](#)

[1.20.0 \(2024-06-02\)](#)

[1.19.0-rc.3 \(2024-05-23\)](#)

[1.19.0-rc.2 \(2024-05-17\)](#)

[1.19.0-rc.1 \(2024-05-08\)](#)

[1.18.1 \(2024-05-05\)](#)

[1.18.0 \(2024-05-02\)](#)

[1.17.0 \(2024-04-30\)](#)

[1.16.2 \(2024-02-15\)](#)

[1.16.0 \(2024-01-22\)](#)

[1.15.0 \(2024-01-14\)](#)

[1.14.0 \(2024-01-01\)](#)

[1.13.0 \(2023-12-22\)](#)

[1.13.0-rc.6 \(2023-12-20\)](#)

[1.13.0-rc.5 \(2023-12-18\)](#)

[1.13.0-rc.4 \(2023-12-16\)](#)

[1.13.0-rc.3 \(2023-12-15\)](#)

[1.13.0-rc.2 \(2023-12-14\)](#)

[1.13.0-rc.1 \(2023-12-14\)](#)

[1.12.1 \(2023-11-29\)](#)

[1.12.0 \(2023-11-20\)](#)

[1.11.1 \(2023-11-07\)](#)

[1.11.0 \(2023-11-01\)](#)

[1.10.0 \(2023-10-29\)](#)

[1.9.0 \(2023-10-25\)](#)

[1.8.0 \(2023-10-20\)](#)

[1.7.3 \(2023-10-18\)](#)

[1.7.2 \(2023-10-12\)](#)

[1.7.1 \(2023-10-12\)](#)

[1.7.0 \(2023-10-12\)](#)

[1.6.0 \(2023-10-11\)](#)

[1.5.4 \(2023-10-08\)](#)

[1.5.3 \(2023-10-03\)](#)

[1.5.2 \(2023-10-03\)](#)

[1.5.1 \(2023-10-02\)](#)

[1.5.0 \(2023-10-02\)](#)

[1.4.1 \(2023-09-12\)](#)

[1.4.0 \(2023-09-10\)](#)

[1.3.0 \(2023-09-06\)](#)

[1.2.0 \(2023-08-21\)](#)

[1.1.0 \(2023-08-20\)](#)

[1.0.0 \(2023-08-16\)](#)