

# Scailable BETA terms

02-06-2020, by the Scailable core team.

In this document, we describe the agreement we (Scailable BV) and you (the user of our product and services) enter into when you enroll in our **beta** program; when you sign up for a Scailable beta account, you accept the applicability of the terms and conditions described in this document. We first describe [our product](#) in more detail to introduce all the terms necessary to specify our agreement. Next, we describe both [our responsibilities](#) in this agreement (and the limits thereof), and [yours](#). Finally, we discuss the role of [your balance](#) in our agreement, and we discuss potential [termination](#) of this agreement.

If anything in this agreement is unclear to you, or if you seek an alternative agreement, do contact us. You can reach our support team at [go@scailable.net](mailto:go@scailable.net).

**NOTE:** At the bottom of this document you will find a [list of terms used](#).

## Our product

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The Scailable **beta** program consists of several products / services (jointly called *services* in this document) that (potentially) interact. Before we can clarify our commitments during our **beta** period, we need a shared understanding regarding the services we intend to provide. Note that you can start using our services after successfully [creating a Scailable beta account](#).

Functionally, Scailable allows you to *transpile* (i.e., convert) an *algorithm* (i.e., a list of operations a computer carries out on some *input* providing some desired functionality) described in a specific language (e.g., `Python`, `R`, `C`, `ONNX`) to a *WebAssembly executable*. The transpiling is carried out by our *toolchains*. You can submit an algorithm to our toolchain(s) using standard REST requests (see our [API docs](#)), although we also provide user-friendly *packages* (such as the `scblpy` `Python` package) that allow you to update a (specific subset of) algorithms directly from, for instance, your `Python` work environment. Note that the set of algorithms our toolchains can transpile is currently limited---if you attempt to transpile an algorithm that is outside our capabilities, the toolchain will return an error.

The WebAssembly executable we create is an alternative specification of the same algorithm (i.e., offering the same functionality) that is (almost always) smaller in size (i.e., uses fewer bits to specify the functionality) and can (generally) be executed faster, with less computational overhead, and on more *runtimes* (i.e., the binary that executes the algorithm) than the original algorithm specification.

Subsequently, we will make this WebAssembly executable available for you to either download and use in your runtime, or to execute on our servers using our *REST endpoints*. We will refer to the execution of a WebAssembly executable (i.e., the optimized version of the user-specified algorithm) on a specific input as a *task*. The result of the task is called the *output*. Note that next to using our toolchains to create a

WebAssembly executable, you can also create such an executable yourself. As long as this executable adheres to [our specifications](#), it can be uploaded to our platform and executed using our REST APIs.

The two paragraphs above describe the core services of Scailable: we allow you to *a)* automatically generate efficient versions of your algorithms and *b)* subsequently download or consume (i.e., run on our servers) this efficient version of your algorithm. Additionally, in the current **beta** period, it is possible to use our [admin interface](#) to administer (i.e., edit or delete) your algorithms and REST endpoints.

## A practical example

To further clarify our services, we provide an applied example. Suppose you train a machine learning model to detect objects in images; a common Machine Learning task. You can now use Scailable *services* to put your model in production (i.e., make it ready for consumption by other services or applications) by following the following steps:

1. You can use our [sclblpy] *package* to upload your fitted model (the *algorithm*) to our *toolchain*.
2. Our *toolchain* will *transpile* your fitted model to a *WebAssembly* executable.
3. You can now download the *WebAssembly executable* AND / OR
4. You can submit an image (the *input*), using an Http POST request to the *REST endpoint* we created for you, and you will receive the resulting inference (the label of the object, i.e., the *output*) in the response you receive upon your request.

**NOTE:** The fitted model itself *is* an algorithm in the sense that it provides a list of operations that turn the input (the image) into the desired output (the detected object).

## Our commitment

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At Scailable, we are committed to delivering high quality and reliable services. However, during the **beta** period (which is clearly indicated on the [admin interface](#)), it is understood by both parties entering into this agreement that we (Scailable) are still in a stage of testing and developing our services, and that when you use these services, you do so at your own risk. Although we are doing all we can to assure the quality and consistency of our services, we can not and do not provide *any guarantees* during the **beta** period. Explicitly, this means that:

1. We cannot guarantee that the functionality provided by the WebAssembly executable we generate is exactly the same as the functionality provided in your initial algorithm. Although the underlying process is deterministic, and we are extensively testing our toolchains, unexpected things can (and thus eventually will) happen: we encourage you to test the output generated by executing our WebAssembly executables and we do not accept any liability for possible erroneous outputs.
2. We cannot guarantee that your task is executed on our servers and thus that you receive your desired output on time. When you use one of our REST endpoints, we do not provide any performance guarantees (i.e., the time it takes to execute your task), nor can we guarantee that our servers are always available to run your task. We strive for as much uptime as possible, and we try to carry out

your task as fast as we can. However, during our **beta** period, our services might be interrupted, or tasks might not get executed properly: we strongly encourage you to ensure that fallbacks are in place on your end to deal with a potential outage or failure to execute your task timely. We do not accept any liability for delayed or unfinished tasks.

3. We currently cannot guarantee that your algorithm and input data are secure and stored according to all rules and regulations that your algorithm and input data are susceptible to. Since effectively, we do not know the nature of your algorithm and input data, we do not know whether these are (e.g.,) subject to GDPR.
4. We can guarantee that we do not use your algorithm and input data for anything other than running your task. Your input data is (temporarily -- these are purged every 30 days) stored in our server logs. We try to secure our services as much as we can, but we cannot guarantee this security is never breached. Your algorithm, i.e., the non-WebAssembly specification of your functionality is stored on our servers for 24hours and subsequently removed. We do not accept any liability for security breaches of your input data or algorithm.
5. We cannot guarantee that our services will be available in the future. If any of our services become (temporarily or indefinitely) unavailable we will try to give as much prior notice as possible, and we will try to allow you to download the WebAssembly executables we created for you. However, note that effectively our services could stop functioning at any time. We do not accept any liability for the termination of our services in the future.

To summarize: We seek to deliver an excellent service, and additionally will respond as quickly as possible to any issues/bug reports/feature requests, etcetera. However, as we are still in active development, we are unable to provide any guarantees.

**NOTE:** If you need additional performance / legal / functional guarantees please contact us at [go@scalable.net](mailto:go@scalable.net). We are happy to discuss such guarantees outside of our **beta** program.

## Your commitment

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We ask a few things from you as a member in our **beta** program:

1. Make sure you guard yourself (i.e., your applications and services that use Scalable) against potential downtime or erroneous output on our side.
2. Make sure you understand the regulations surrounding your algorithm and input data that apply wherever you are based. When you intend to use "sensitive" input data and need guarantees regarding the processing of this data, [contact us](#).
3. If you find bugs, mistakes, etcetera, please [let us know](#); we will try to fix them asap.
4. Feel free to test the limits of our services, but be friendly; if you find yourself able to hack into any of our services, please [let us know](#). We will be proud of you, applaud your efforts, and subsequently fix the issue. If you intend to stress-test our services, [let us know](#) in advance, and we will monitor the performance with you.
5. We expect "fair" usage of our services; if you understand (or become aware of) the fact that your

actions (e.g., your uploads or task consumption) are slowing down our systems [let us know](#); we will look for a solution together.

We can and will interrupt the services we deliver at any time if you violate our conditions as implied by the above. We seek to provide prior notice if we take such an action, but in the case of a severe breach of our agreement, we reserve the right to terminate your **beta** program account immediately and indefinitely.

## Your balance

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When your request for a Scalable **beta** account is approved, you will have access to your account through our [admin interface](#). Here, on the [settings](#) tab, you will see an account balance equal to € 50.- (fifty euros). Using Scalable services will deplete your balance:

- We charge 0.50 € for the usage of our toolchains.
- We charge 0.0005 € for the consumption of a task using one of our REST endpoints.

Once your balance is depleted, we will interrupt our services on your **beta** account. We will provide prior notice if possible, but it is your responsibility to monitor your balance and act accordingly.

The € 50.- balance you receive at the start of the **beta** program can *only* be used to purchase Scalable services and cannot be redeemed. If our services are terminated before you have depleted your balance, we will *not* provide reimbursement---also, no rights can be derived from your resulting balance.

**NOTE:** The prices of our services are subject to change; Any change in our pricing scheme will be communicated through our [admin interface](#) and via email. These changes can take immediate effect, although we aim to give a ten days prior notice anytime we make a change.

## Purchasing additional credit

If you would like to increase your balance, you can, on the [settings](#) page in the [admin interface](#), choose to increase your balance by providing payment. Your payment will be added to your balance, and this will allow you to keep using our services even after your initial € 50.- **beta** balance has been depleted. Note that the commitments described in this document do not change *in any way* when you purchase additional credit: you are still participating in our **beta** program.

## Termination of this agreement

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You can terminate this agreement at any time by simply refraining from using our services. Additionally, you can delete your account on the [settings](#) page in the [admin interface](#). If you do so, we will contact you at most once using your provided email address to (e.g.) ask why you have stopped using our services, after which we will permanently delete your records (or within 90 days, whichever comes first).

We reserve the right to terminate this agreement, and hence our services, at any time. However, we will

make an effort to

1. Provide ten days prior notice when services are interrupted or changed (e.g., when our pricing is changed).
2. Allow you to download your WebAssembly executables and your account information if our service is terminated.
3. Reimburse your *purchased* balance (thus, only the balance you added on top of the € 50.- **beta** balance you received at the start of the program) minus any costs we incurred to process your payment.

## Terms used:

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Here we explain the terms used in this document.

- *algorithm*: A list of operations to carry out on some input data (possibly void) producing some output data (possibly void) independent of the language this list of operations has been specified in.
- *beta account*: The user account we create for you, identified by your email address, to use our services.
- *beta program*: The finite time period our services are available to those possessing a beta account under the terms and conditions specified in this document.
- *input*: The data (bits) that are operated upon by an algorithm.
- *output*: The data (bits) that are the result of the algorithm operating on the input.
- *packages*: Scalable packages are pieces of code (often open-source) that can be downloaded by our users to simplify the process of uploading an algorithm to our toolchain(s).
- *beta credit, balance*: The initial 50 € budget you receive once your beta account is activated.
- *purchased credits*: Any budget you add on top of the 50 € beta balance by purchasing additional credit.
- *REST endpoint*: An `URL`, in our context one that starts with `https://taskmanager.sclbl.net:8080/task/`, that you can call to execute a task (click [here](#) for more info about REST).
- *runtimes*: A [[https://en.wikipedia.org/wiki/Runtime\\_system](https://en.wikipedia.org/wiki/Runtime_system)].
- *services*: In this document all the products and functionality provided by Scalable during the **beta** program.
- *task*: A combination of an algorithm and a specific input.
- *toolchain*: A (proprietary) Scalable software application that takes an algorithm and transpiles it to a WebAssembly executable.
- *transpile*: Informally this would mean to "rewrite into another language". Thus, take an algorithm specified in some language ( `C` , `Python` , `ONNX` , etc.) and express that same algorithm in a different language.
- *WebAssembly executable* An algorithm expressed in the [WebAssembly](#) language that can be executed by a runtime. In this context, we use the term to refer to algorithms that have start and endpoints specific to Scalable; for details, see [our Scalable tutorial on WebAssembly](#).

