

Solution for payments with WAVES cryptocurrency and tokens

The goal of this description is to outline possible approaches to this objective. Maintaining these guidelines is not mandatory. You are welcome to come up with your own ideas for implementing this task.

The ability to make purchases with cryptocurrency or tokens, either online or offline, lost its novelty some time ago. A variety of options for cryptocurrency payments are currently available in the market. However, many vendors still face problems when setting up crypto payments. We would like this process to be utterly straightforward, understandable and accessible, even to people with little technical knowledge.

As a result of disbursing this grant, we would like to see an easy and convenient solution for accepting payments on web sites in WAVES and tokens issued on our platform.

The owner of an internet store should be able to:

1. Indicate an item's price in fiat currencies or tokens issued on the Waves platform.
2. Set up a list of tokens accepted as payment.
3. Set up exchange rates for tokens manually or indicate a source of data (for instance, data services).
4. Receive a notification for each transaction by email, DataTransaction etc.

The solution should facilitate the addition to the web site of a widget/JavaScript that can be integrated into a product page or cart to perform the following:

1. Converting a product's price from fiat currency into tokens.
2. Automatic calculation of the final price.
3. Generation of a TransferTransaction and the opportunity to sign the transaction with Waves Keeper.

The Widget/plugin should be distributed as a JS file or .CMS file that is not associated with a centralised server. Later, this solution is expected to be developed into a fully-fledged merchant service.

A list of suggested Waves tools

- Waves Keeper
- Waves API



Timeframe

2 weeks.



Results

The following results are expected:

1. A demo version of a working application.
2. A detailed illustrated operating manual on a separate landing page or in a Medium post.
3. Source code on GitHub.

If you have your own approach to solving this task or other ideas/preliminary works, please apply and we will consider your solution.