DASH-Odoo Plugin

Project Proposal

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1. General Project Information

Project Name (_A short, descriptive and official project name._**):**

Odoo – DASH crypto module

Description and Goal Statement: (_In a narrative, describe project context and background. What is the business need that gave rise to this project? Describe the business drivers that created the problem, opportunity or business requirement. Examples: regulatory issues, outdated technology or technological advance, community request._**)**

Business have a hard time implementing crypto into their systems. Is not just a matter of wallets and cloud services, but integration with their current systems that can provide a quick an easy way to adopt cryptos. Handling multiple request of different currency and having an always updated price list could make the effort of purchasing and recalculating a time consuming task, and add complexity to the operation.

The goal of the project is not just to make DASH technology available but to really provide a solution for high traffic transacion being viable to be pefromed using Odoo.

The project aims to achieve one of DASH goals on it's whitepaper:

"_A main issue with the acceptance of Bitcoin in point-of-sale (POS) situations is the time required to wait for the network to confirm the transaction made is valid, alternatively payment companies have created methods to allow vendors to take zero-confirmation transactions, but these solutions utilize a trusted counterparty to mediate the transaction outside of the protocol._ "

The project aim to be a steping stone into this direction.

Email Address / Website: (_Provide a valid email address for project discussion, and Website address for project documentation._**)**

gborras@bisnesmart.com

Vendor:(_Provide a name and contact details of the project vendor._**)**

http://avalbit.org

2. Project Team

Name	Department	Telephone	Email
Gonzalo Borras	NA	NA	gborras@bisnesmart.com
Gonzalo Lopez	NA	NA	gmlp.24a@gmail.com
* More members would be recruited			

3. Stakeholders (_e.g., those with a significant interest in or who will be significantly affected by this project_)

Avalbit – is a bitcoin and cryptocurrency association in Valencia, Spain represented by Gonzalo Borras

4. Project scope statement

Project Porpose / Business Justification

Describe the need this project addresses

Odoo is a very popular ERP, it has a strong footprint on many industries, it has a very modular design and have a strong third party ecosystem of plugins. At the same time, is Open Source so is improvable and easier to deal than commercial ERP like SAP, or SalesForce.

The goal of the project is to make it easier for business, virtual or brick and mortar, to implement DASH. Odoo is used by companies of all sizes, from freelance to big transnationals. From law firms to manufacturers. The ecosystem has a vibrant communities across the world that supply support on the platform.

The plugin will make it easy for any Odoo user to update their POS with real time DASH exchange, as well as provide tickets that will convert the listing prices into DASH and documenting the purchase on invoices that will freeze the exchange at the time of purchase.

Objectives (in business terms)

Describe the measurable outcomes of the project (e.g., reduce cost by xxxx or increase quality to yyyy). Describe what will be achieved and what will be delivered. What are the benefits that the project provides Dash? What value will this project deliver to Dash? What is the vision - what will business be like after the project is done?

Using DASH on Odoo will make it easy for business to consider DASH an alternative, extending the commercial use of the altcoin and make it possible for anyone to offer the alternative. It can also open the test case for more business to exploit benefits of DASH unique quick transactions for high traffic purchases.

Key Deliverables

List the high-level "products" to be created (e.g., application to do aaaa, improved xxxx process, manual on yyyy)

Provide DASH listing on the accounting multi-currency support

Provide POS functionality to Odoo including QR generation for incoming payments

Provide reporting functionality from sales made with DASH

Show local currency exchange at the moment

This module also includes support for *instantsend*.

Odoo backend options to manage dashd location.

Provide a DASH module on the Odoo store

Scope

Describe the boundaries of the project. What is in scope and what is not in scope (e.g. This project addresses Dash to fiat exchange process in the Internet. Direct exchanges (hand to hand) are not included in scope)?

The project want to make a self sustained solution, meaning it wont connect to a third party, we considered wallet could either be an spv or a prune wallet to make it smaller size, but odoo is usually hosted on high

capacity servers so space isn't an issue and could host the entire DASH blockchain making it easier to record transactions and be self sustained.

We also decided to include privatesend as a premium feature which would be ablle to detect the transaction events from the user and prioritize the *instantsend* over the traditional transactions. However not all wallets support DASH's premium features, so an optional failback should be trigger for slow transactions.

Project Milestones and Schedule

Propose exact start and end dates for Project Phases (e.g., Analysis, Planning, Construction, Delivery). What date will the actual project work start? What is the anticipated date that the project will be delivered and project team disbanded? Are there any dates that will drive the project schedule? (Examples: regulatory, vacation…). Include known milestones and/or phases.

Estimaing rigid deadlines on a development is risky since changes on the API are coming with evolution, but assuming that all the things are set in. We estimate a 5 month period. Issues have been raised upon this extended period due to the DASH volatility could de-fund or overfund the project.

Proposal such as creating child projects, or forcing a quit of the proposal and re-propose are probable solutions to keep the project moving forward uninterrupted. The feature list could also be compromised due to limitations of both platforms.

Given all this, we can estimate a workable version by month 2, and two further versions after that before reaching a 1.0 production version.

Planning will start from the construction of this proposal which include, looking for reference code that support the development, looking for specialized tallent to fill the team and also the inclusion of experts that will enforce the success of the project.

Delivery will be shown on the OCA server which is the open source repository for Odoo, listed on their module store.

Budget should be divided by sections of the project including:

- Research and Planning with a total period of 3-5 weeks for 10% of the total budget

- Development of the majorityof the 15 weeks for 60% of the total budget

- Testing and refactoring of 2-3 weeks for 30% of the budget

Success Criteria

How will we know when the project is done? How will the Dash team decide if the final deliverable is satisfactory? What measure will be used?

The team will focus on the success rate by the ease of use of the software and the way it can be implemented. Improvements could be evaluated on further proposals.

Having a good purchasing experience with minimum waiting times or clear messages describing solutions when issues regarding connectivity or failovers arise.

The module would be freely available to the Odoo community and ready to install on the community version of Odoo.

Major Known Risks (including significant Assumptions) *Identify obstacles that may cause the project to fail.*

Risk	Risk Rating (*Hi, Med Low*)
Lost of team/talent	High
Major changes on the framework	Low
Fatal bugs or design impossibilities	Med
Dash volatility	Med

Constraints

List any conditions that may limit the project team's options with respect to resources, personnel, or schedule (e.g., predetermined budget or project end date, limit on number of staff that may be assigned to the project).

Developers might not be full time contributors and increase on their day job could cause delays on the project. Having a waiting list of developers is a good idea as well as non-paid contributors. The project would be open source so the code could be reviewable anytime, and a testing period would be provided.

Additional constraings due to the logic of the premium features including *instantsend* as the users might not have this available on their wallets or might not have a medium to know they should be enabled before executing the transactions.

External Dependencies

Will project success depend on coordination of efforts between the Dash core team, the project team and one or more other individuals or groups? Has everyone involved agreed to this interaction?

The project could greatly benefit from DASH community business developer's blessing as he could give a proper validation of the market demand.

5. Communication Strategy *(specify how the project manager will communicate to the Sponsor (Dash community) and Project Team members, e.g., frequency of status reports, frequency of Project Team meetings, etc.)*

Communication could be done via the DashTalk forum, which seems the most visible and dedicated link for communication as opposed to public chatrooms. Development meetups could be handled on other mediums like Telegram or Hangouts.

6. Reviews Planned *(indicate what reviews this project plans. Monthly reviews are recommended.)*

Hangout sessions of the team could be encourage, and a planning software like trello as well, to track the project management.

The reviews should show significant advancements, an alpha released should be soft launched on the 3rd month and a beta on the 4th.

7. Notes

Technical meetings have been held and there have been some research and documentation being done regaridng the process of the module.

The module was decided to be focused on steering development toward the purchase of products with DASH.

DASH sales would be handle by a manual form to declare a convertion from DASH to FIAT for accounting porpouses.

Development of POS will superseed e-commerce platform, being a bonus module or an extension to the project.

Still looking for a UX developer at the time of the proposal launch, but Gonzalo Lopez agreed to handle frontend related tasks meanwhile.

The module will list DASH as a currency across the platform on a multi-currency mode for Odoo.

The POS itself will contain a QR generator for transactions a configurable timer and currency exchange lock.

The module will communicate to the DASH service through RPC on a local level.

Reference project includes Gonzalo Borras Payment Bitcoin module for Odoo located at:
https://github.com/bisnesmart/payment_bitcoin

User will be able to run instantsend transactions, through services from dashd using *instantsendnotify* events that executes commands when a transaction is succesfully locked.

Apply *zmq* notifications, which incorporate all the logic and will only be triggered when *instantsend has enough votes*.

If instansend fails, error screen will appear and User can retry use instantsend or use normal service (User will wait 10 times more than instanstsend).