xxRFP-2022-011

xx on ABC

Do you have an app or service that could benefit from the privacy properties provided by the xx network? This xx foundation request for proposals will fund integration of other apps with the xx network, aka "xx on ABC". We are open to exploring integration with a wide variety of apps, which includes seemingly competitive services like other chat servers (e.g., Matrix) to decentralized social networks (e.g., Mastodon) to more traditional crypto projects like a DeFi exchange.

The xx foundation is offering a competitive bidding process to complete this work, with independently compensated phases. The selection process will analyze each phase individually according to the response contents, the proposed compensation, and the proposed final deliverable dates and contents. Proposers are expected to propose for all phases.

Requirements

The primary requirement for this RFP is that it provides a clear privacy improvement for users. That means your proposal should take care to explain what privacy enhancements are made to the user experience and what xx network integration strategy will be used to make the app work (e.g., will your app ask the xx Messenger for permission to use the user's transmission identity in order to send requests to read and write?).

You should include a protocol or protocol modification description, as well as a modified User Interface (UI) design, if applicable. The UI should include mechanisms to clearly communicate to the user any privacy implications associated with different usages of your app..

Proposals should never share user data (e.g., location data) with your app unless it is required and made clear why the data is needed. Proposals which collect user data or store it will not be considered. Server components (if any) must only be accessed through cMix on the xx network with respect to your integration. Proposals should address how improved privacy and security properties are achieved (e.g., specific libraries, protocol sketch, etc) as well as provide a high-level description of the intended software architecture.

Phases

You may propose your own phases, but the following three phases are desired:

Phase 1: Proof of Concept—Implement the basic version of your proposed design and submit a final design for the client-side and server-side functionalities. This should

include final versions of any cryptographic primitives and fully explained versions of all data structures and sub-protocols. This should be open sourced

Phase 2: Core Implementation

- **Server-Side Integrations**—Modified server, if applicable, that will interact with the app. This component can be closed source.
- **Command-Line Tools**—Fully functional client-side command-line tool which fully exercises your proposed system without a user interface. The client-side command-line tool is the final library used by the apps, with test coverage of at least 85% of the code base and an accompanying continuous integration/continuous deployment (CI/CD) styled testing script. This should be open sourced.

Phase 3: App Integrations—Modified android or iOS (or desktop) app with the final user interface design using the library from Phase 2. This can be closed source.

Submission Instructions

Proposers should submit their proposals, in English, to the following website:

- https://xxfoundation.org/archive/xx-foundation-announces-the-xx-dapps-grant-program

Note that proposals are divided into two parts: An anonymized technical proposal and a staffing proposal. The technical proposal will be posted online and should not contain any identifying information about your organization or staff. The staffing proposal will contain resumes and additional evidence for why you and your team are qualified to do the work you propose.