

Closeout Report: SIDAN | MeshJS - Advance Cardano SDK in Rust

Proposal Link:

<https://projectcatalyst.io/funds/12/cardano-open-developers/sidan-or-meshjs-advance-cardano-sdk-in-rust>

Fund: Fund 12

Proposal Number: 1200201

Name of project manager: Hinson Wong

Challenge Setting: Cardano Open: Developers

Proposer: SIDAN Lab / MeshJS

Date project started: Aug 12, 2024

Date project completed: Jun 19, 2025 (last relevant commit / PR closing)

GitHub Repository: <https://github.com/sidan-lab/whisky>

1. What was funded?

Cardano lacks a complete user-facing Cardano SDK in Rust, for building on Cardano without knowing all low-level details. This proposal funded the development and constant improvement of whisky, the Rust Cardano SDK.

2. What has been delivered?

- **Package evolution:** There is a [F11 proposal](#) starting the ground work of Rust SDK in the name of [sidan-csl-rs](#). It has been built with proof of concept idea in mind. In this proposal, the package evolved
 - Splitting the Rust logic into 2 crates, keeping the sidan-csl-rs able to pack into wasm and support Typescript consumers like MeshJS. While allowing the Rust developers to use more advanced, non-wasm compilable functions in the core whisky crate.
 - Extra delivery - splitting the package into a more detailed manner for future-proof consideration. Detail referred to <https://github.com/sidan-lab/whisky>.
- **Integration with Mesh:** The [mesh-core-csl](#) is now supported by whisky.
- **Offline evaluation:** Integration with Aiken's uplc to support transaction evaluation, and exporting the feature to Mesh.
- **Providers:** Implemented Blockfrost and Maestro, for fetcher, evaluator and submitter.

- **Transaction parser:** Implemented TxParser to turn transaction CBOR hex back into Rust native type for supporting rebuilding and unit testing.
- **Documentation:** Documentation is hosted at <https://whisky.sidan.io/>

3. Key Achievements

Metric	Achieved
Allow community to collaborate	4+ contributors
Github commits (metric for collaboration)	500+
crates.io whisky all time downloads	49,299
crates.io sidan-csl-rs all time downloads	96,635
Dependents of whisky npm library	236 projects

4. Achieved Challenge KPIs

Metric	Achieved
Source-available from day one	Yes
Select an open source license	Apache2.0
Allow community to collaborate	4+ contributors
High quality documentations	whisky.sidan.io sidan-lab.github.io/whisky/
Provide an ease of use for developers	Identical APIs with MeshJS
Project KPIs - all features developed	Developed

5. Key Learnings

- **Consistent Patterns:** In the Rust SDK development, we have built all the APIs with the same naming convention with MeshJS. This results in easy onboarding and dev and maintainers.
 - **Testcase as Examples:** whisky comes with rich documentation. However, examples are also crucial for adoption. In the later part of the proposal implementation, we have built test cases to present as examples for usage.
 - **Collaboration:** whisky comes to life collaborating with the MeshJS team, where we share knowledge and maintenance resources.
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6. Next Steps

- whisky will move into integration with Txpipe's pallas as serializer. (Unfunded) work has been planned and is going to be implemented soon.
 - whisky will support a wider programming language of core Cardano logics through FFI C interface, to [Python](#) and [Golang](#).
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7. Final Thoughts / Comments

- There is feedback for communities that want to have more examples. The team would continue to open-source more actual DApp transaction building in whisky for community reference.
 - Blueprint parser and Cardano data type systems are also recommended next steps.
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8. Links to Final Deliverables

- GitHub Repo: <https://github.com/sidan-lab/whisky>
- Online Documentation: <https://whisky.sidan.io/>
- Link to SIDAN discord & whisky channel: <https://discord.gg/55Z25r3QfC>
- Link to close out video:
 F12 Close out video - SIDAN | MeshJS - Advance Cardano SDK in Rust