

One feedback that we've received frequently is that a lot of our development happens behind closed doors. We want to seriously improve on this, so we're attempting to bring some of our discussions (mostly those that happens on our internal Slack) to the forum. We're also looking for other ways to be more transparent and show our WIP as it happens, and not after the fact (we're open to ideas here!).

This week, we've been looking into the best path forward with integrating secret contracts into the Enigma network. For Discovery, we've built an implementation called eng-wasm (and enigma-core surrounding it), which is essentially the WASM interpreter running inside of the enclave. It also includes all of the encryption/decryption/signing code to preserve privacy/correctness.

Right now we're faced with two different options:

1. Migrate eng-wasm into the Enigma Chain
2. Use CosmWasm.

After several discussions, we're leaning towards option #2

for the following reasons:

1. pwasm, the implementation we've used a starting point for eng-wasm has been since deprecated by Parity.
2. A lot of our serialization/deserialization code was made to be EVM compliant (Solidity ABI). We don't see a need for that anymore.
3. We'd have to materially change our state code anyway. CosmWasm has a state implementation that integrates well into Cosmos.
4. There's a whole smart contracts module (wasmd) that is Cosmos SDK compliant, making the integration faster.

The biggest downsides we currently see for this approach are:

- a. CosmWasm is still changing rapidly and can (and potentially will) have breaking changes. We'll have to keep up with that.
- b. Integration will require more surgical precision.

Next step is to try to integrate CosmWasm in the clear, then look into enclave related components.