FireFly Updates

Community Call February 2, 2022



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Agenda

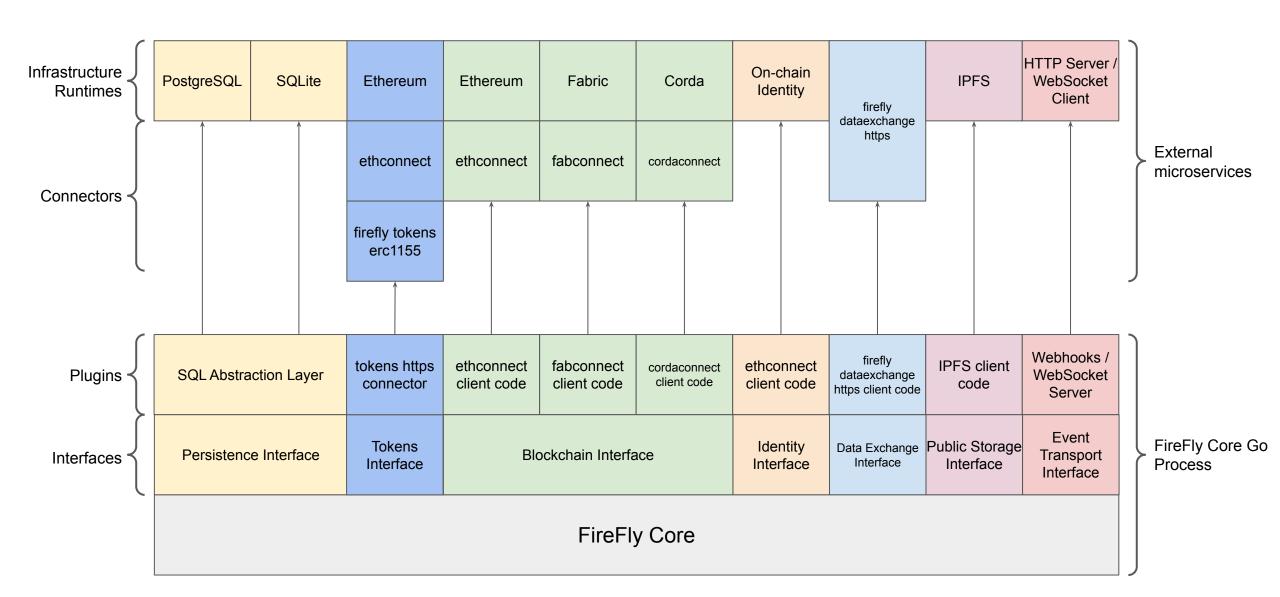
- ERC20 / ERC721 Token Connector
- FireFly v0.12.0 Updates
- FireFly UI Plans & Discussion
- Open Discussion

ERC20 / ERC721 Token Connector

ERC20 / ERC721 Connector

- Single runtime for ERC20 and ERC721 tokens
 - Chooses contract based on fungible/nonfungible flag
- Uses the existing fftokens plugin in FireFly
 - Single interface can be used for this connector or ERC1155 connector
- Uses standard ERC20 and ERC721 ABIs out of the box
 - FireFly does not need to know about your contract when it is first started
- Must deploy instance of your contract on-chain before creating pool
 - ERC20 is in v0.12.0, ERC721 support will be finished this week

Architectural Layers



FireFly v0.12.0 Updates

Release process updates

- Mainline is not guaranteed to be stable commit-by-commit
- Database migrations, APIs may not be stable commit-by-commit
- Released versions will be migration- and API-stable
- Recommend all feature development to take place in mainline
- Major/minor releases will be performed by picking a mainline commit,
 pausing merges temporarily to sanitize, and tagging a release
- Patch releases may be performed via branches from the last release, to integrate fixes when mainline is not stable for release

Changes in v0.12.0

- Preview of custom on-chain logic
 - APIs under /contracts and /apis
 - Not yet guaranteed to be stable API subject to change
- Support for new ERC20 / ERC721 connector
- Overhaul of Transaction type, and new BlockchainEvent type
- First-class support for blob filenames
- Richer query parameters for filtering collections (some breaking changes)
- All APIs deprecated in v0.11.0 or earlier are removed
- Bug fixes and improvements

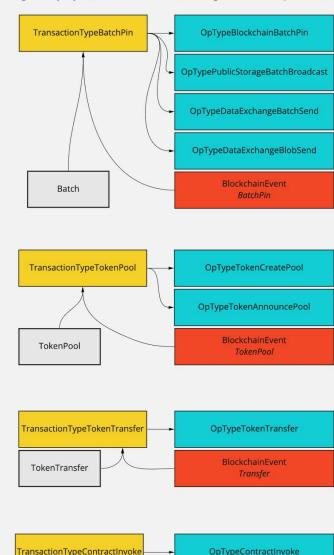
FireFly Transactions

- Map to 0, 1, or more blockchain transactions
- Serve as a container object for Operations,
 BlockchainEvents, and other FireFly objects
- Many fields are removed from Transaction in this release, or moved to BlockchainEvent
- Transaction status is computed on demand via a new /transactions/{txnid}/status endpoint

Transactions are a grouping construct for a set of operations (actions), blockchain events (feedback), and a particular FireFly object created as a result.

Operations are created/tracked on the initiating node only. All other objects in this picture are generally shared between sender and receiver(s).

Transaction status is a function of 1) receiving the expected number of BlockchainEvents, 2) creating the target FireFly object(s) without error, and 3) receiving success for all Operations (initiator only).



Because there are only operations and no feedback events, this transaction will exist on the initiating node only.

FireFly UI Plans & Discussion

Open Discussion