

Starport

The Astaria application is built on top of the Starport framework.

What is Starport?

Starport is a simple kernel framework used for composing lending protocols on the Ethereum Virtual Machine (EVM). Starport itself is not a lending protocol, but instead handles the data availability and agreement enforcement that is required for any lending protocol. In Starport, there are three distinct actors: borrowers, lenders, and fulfillers.

Starport supports collateralized loans and options for any ERC-20, ERC-721, or ERC-1155 assets. Rebasing and fee-on-transfer tokens are not supported.

Starport's core components

The Starport kernel is supported by two core contracts: Starport and Custodian.

Starport is the entry point for origination and refinancing. The duty of Starport is to enforce the agreements of originate and refinance, as well as maintain the record of loan state.

Custodian is the entry point for repayment or settlement. The duty of the Custodian is to custody the borrower collateral and enforce loan settlement and repayment conditions. Custodian is not a strict implementation. Borrowers and lenders can provide differing implementations of the Custodian that support the Custodian interface. However, a gas efficient default Custodian contract will be provided with Starport.

Modules

Modules are implementations of the module interfaces that are untrusted by the core. Each module serves a purpose within the lending lifecycle providing parameters and conditions for the core contracts to enforce.

The duty of the Pricing module is to provide the conditions of repayment to the Custodian and the conditions of refinance to the Starport contract.

The duty of the Status module is to provide the status of whether a loan is active or inactive. An inactive status allows a loan to be settled. An active status allows a loan to be repaid.

The duty of the Settlement module is to provide the conditions of settlement to the Custodian. Settlement is more commonly referred to as liquidation, but is a restrictive definition for this framework.

[The full Starport whitepaper can be found here.](#)

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