Terra Integration Report
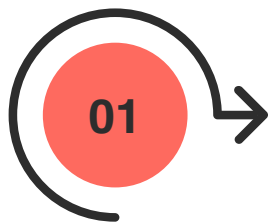
OVERVIEW

Router Protocol will be integrating Terra as the first non-EVM chain into its cross-chain architecture. This integration will allow users to transfer funds and pass messages to Terra from EVM-compatible chains such as Avalanche, Polygon, BSC, Ethereum, Fantom, Arbitrum, and Optimism. Router was a recipient of Terra's rapid grant in September 2021. Given the security considerations involved while building a cross-chain infrastructure and the lack of CosmWasm support for GoLang integration (our bridge code is in GoLang), we haven't been able to keep up with our specified timeline. We would once again like to apologize for that. Having said that, in accordance with our commitments, we would like to offer the Terra community an update on the status of Terra integration with Router Protocol in this report.
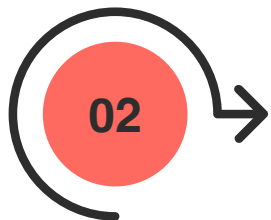
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INTEGRATION COMPONENTS

The complete integration of Terra into Router Protocol's cross-chain

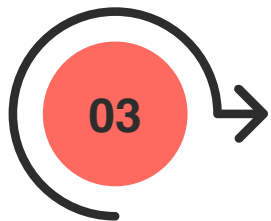infrastructure involves three main components:

01

CONTRACTS

Reserve contracts that maintain bridge reserves, various handler contracts to support functions like ERC20 transfers, NFT transfers, arbitrary message passing, etc.

02

GOLANG BRIDGE

The code acting as the link between all the chains.

03

USER INTERFACE

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CURRENT STATUS

Contracts

The contracts for the transfer of assets are near completion. We are currently performing an internal review of the contracts and we expect to finalize the contracts in the next couple of weeks, i.e. by 24th April.

Below are the WIP contract addresses which the team is working on. Please note that these are not the final contract addresses, and we will continue making ad-hoc changes to drive these contracts to the finish line.

#	Function	Contract Address
1	Bridge	terra10kzq88fh50jqp350zsqq5v667kkf9cfsptzrc5
2	Fee Handler	terra1rawcvv23xffq0mdj35kyhxjmxnh6gzuy3wm496
3	ERC20 Handler	terra137cvwu5539tc3yjwhz48xrcrlx7r9pam6qvgsk
4	Reserve	terra1246cqxdmmlz8t00rg5ztj568gcah6hm4g49ygl

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GoLang Bridge

Our development team has started working on the GoLang bridge. Given that CosmWasm doesn't have enough support on the GoLang side of things, we will need to build a microservice in python and make a call via our GoLang bridge to make the transfers. The estimated effort on the bridge is around 2 months and we expect to complete this by the end of May.
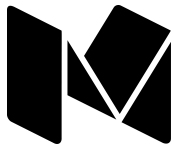
UI Integration

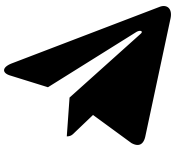The work on UI integration will begin once the contracts are finalized.

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FOR MORE DETAILS

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