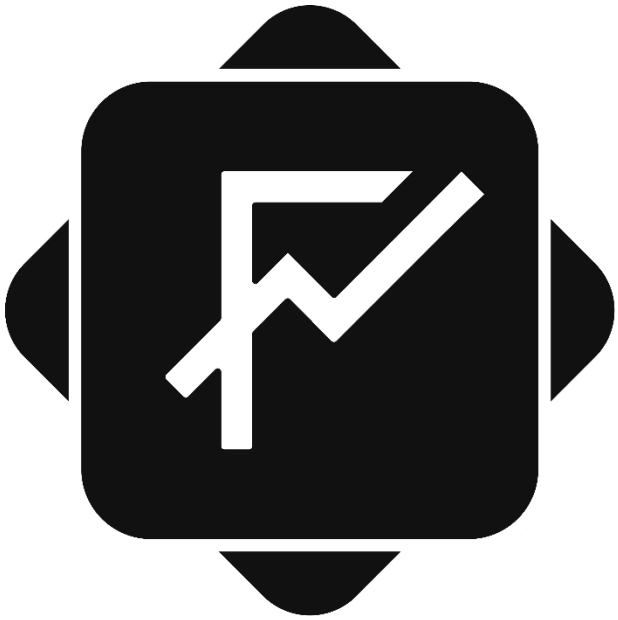

FOODWARE

# Foodware Logistics Technologies Limited

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## Highly Confidential Information

This Document is meant for only personnel involved in the development of the Foodware Payment Network and the Management of Foodware Logistics Technologies Ltd. If you do not fit into this description you are not authorized to use anything or information in this Document.

# FOODWARE HOOKS

This document gives details of how Foodware intends to use Xahau Ledger as its internet of Value and Assets. Foodware intends to connect user accounts on its Marketplace to wallet accounts on the Xahau Ledger. This hyper-efficient payment and exchange medium is made possible by L1 Smart computation object native to the Xahau Known as Hooks. Foodware uses hooks to automate transactions between its user account and its platform accounts, this software is also used to operate as a guard on accounts on the platform. Below is the List of Hooks to be used on the Foodware Marketplace:

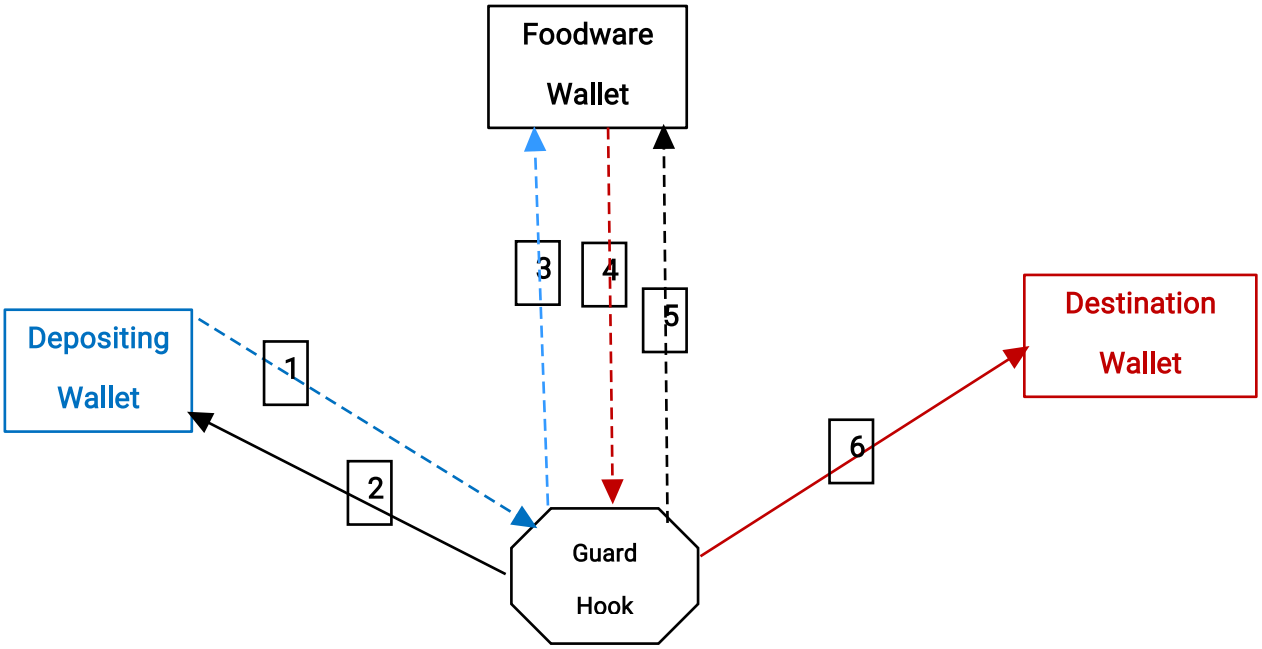
## Foodware Guard Hook

This Hook is a wallet Guard and transaction checker. Foodware Guard Hooks ensure that Foodware Hub users have maximum security on their Decentralized wallets (this is because each Foodware Wallet is an Xahau Ledger Account). The purpose of this Hook is to define and enforce all the transactions that are permissible on the Foodware Hub platform. This approach is to prevent hacks, suspicious movement of funds, money laundry and blacklist transactions from happening.

This Hook does the following;

- It defines the Assets (Token & NFTs) that are permitted in the Foodware Hub platform.
- it defines the transaction limits for these assets
- it defines the transaction types and transactions flags that the wallet can carry out.
- it defines the type of Ledger objects the wallet account can create.
- it enforces a registry of wallet accounts that these wallets can send transactions to.
- it enforces a blacklist of wallet that the wallet account cannot receive Assets from.
- it also adds a list of wallets and APIs the Hooks should listen to and request signing from for certain situations.
- Only transaction types, flags, ledgers objects, transaction to registry wallets that are registered in the Hook are allowed to be executed, otherwise they are reversed.
- it also allows for update by the necessary wallets that it listens to and request signing from.

### The Guard Hook Process




1. Blue Lines represents Deposit Transactions
2. Red Lines represent Transfer Transactions
3. Dark line represents Hook Emitted Transactions
4. Transaction 1 is a deposit transaction; this transaction is read by the Hook.
5. Transaction 2 is a Hook emitted transaction back to the Depositing Wallet, this happens when the deposit transaction doesn't satisfy all of the Hook logic above.
6. Transaction 3 is the same deposit transaction after satisfying all the Hook logics written above.
7. Transaction 4 is a transfer Transaction; this transaction is read by the Hook.
8. Transaction 5 is a Hook emitted transaction back to the its wallet, this happens when the transfer transaction doesn't satisfy all the Hook logic above.
9. Transaction 6 is the same transfer Transaction after satisfying all the Hook logics written above.

## Foodmail Hook

This Hook Defines how paying for items on Foodware Hub is processed, ultimately this Hook affects our delivery timing and product purchase. it interacts with Escrow, Destination Tag, and Memo Tag Ledger Objects to successfully compute a purchase transaction.

### Objects

**User Wallets** have a Guard Hook invoked in them and they are initiators of Escrow Create Transaction locking a 0.2 XAH as reserve to create the Token/XAH Escrow.

**Token/XAH Escrow** is created with a 0.2 XAH reserve and it holds the Token/XAH payment for

delivery period.

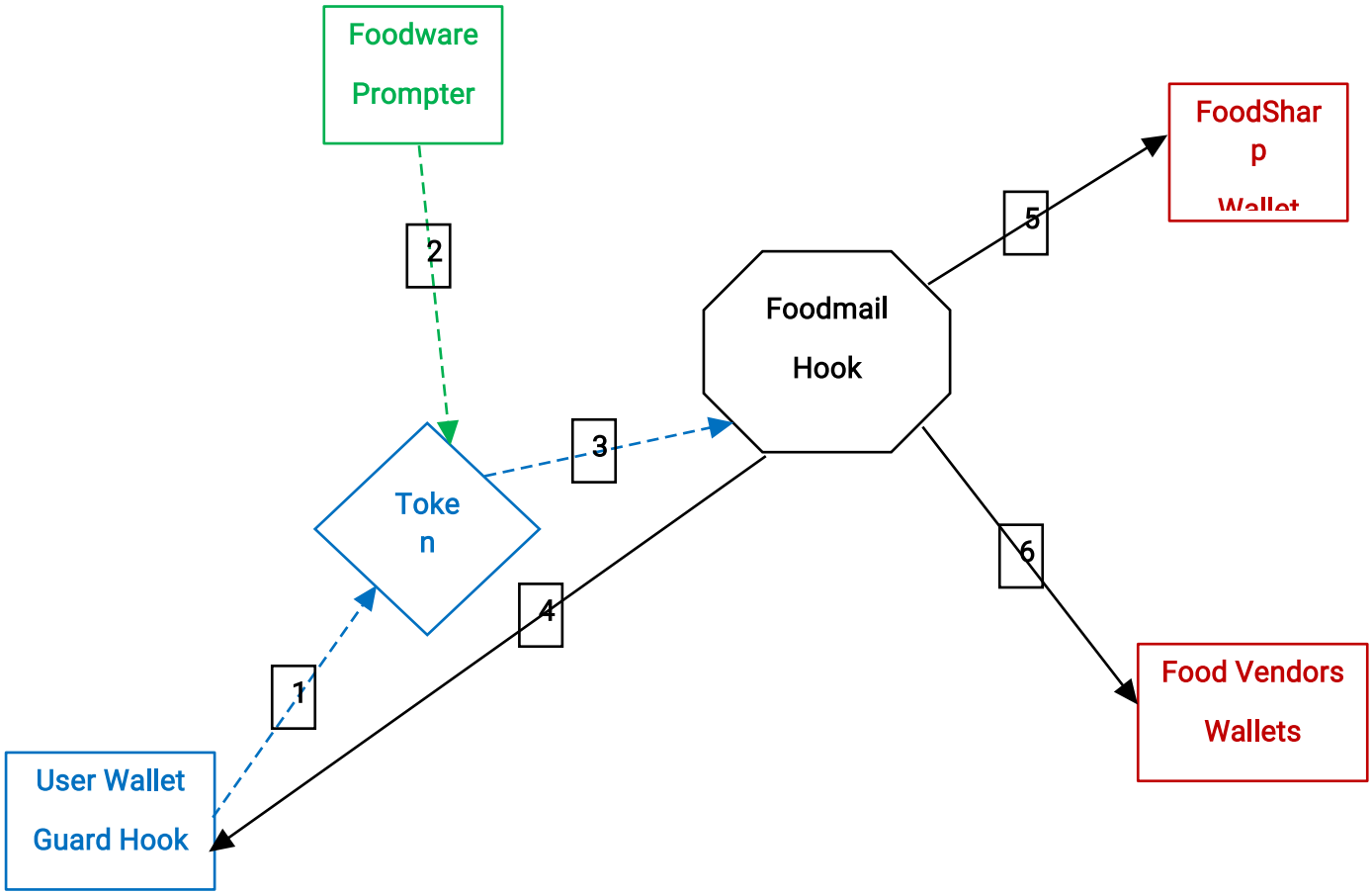
**Foodware Prompter** is an HotPocket dApp hosted on the Evernode platform that listens to and records all escrows create transactions sent to the Foodmail Hook Wallet. When the dApp noticed that a delivery time (Escrow Finish time) is over it checks for inputs from the Foodware Chain HotPocket dApp if the product is delivered or not, and sends an Escrow finish transaction accordingly.

**Foodmail Hook** is a Hook/Smart Contract that ensures the safe emission of funds to riders and vendors or the return of funds to the users through its computational logic on the blockchain.

**FoodSharp Wallet** is a Centralized wallet that uses Destination Tags to identifier the Rider receiving the delivery fees.

**Food Vendor Wallet** is Centralized Wallet that has a stock Node that listens to depositing transaction memo field to get the vendor IDs and the amounts ascribed to each vendor ID and credit their account with the payments accordingly.

**The Process**




1. Blue lines represent transactions related to the user wallet

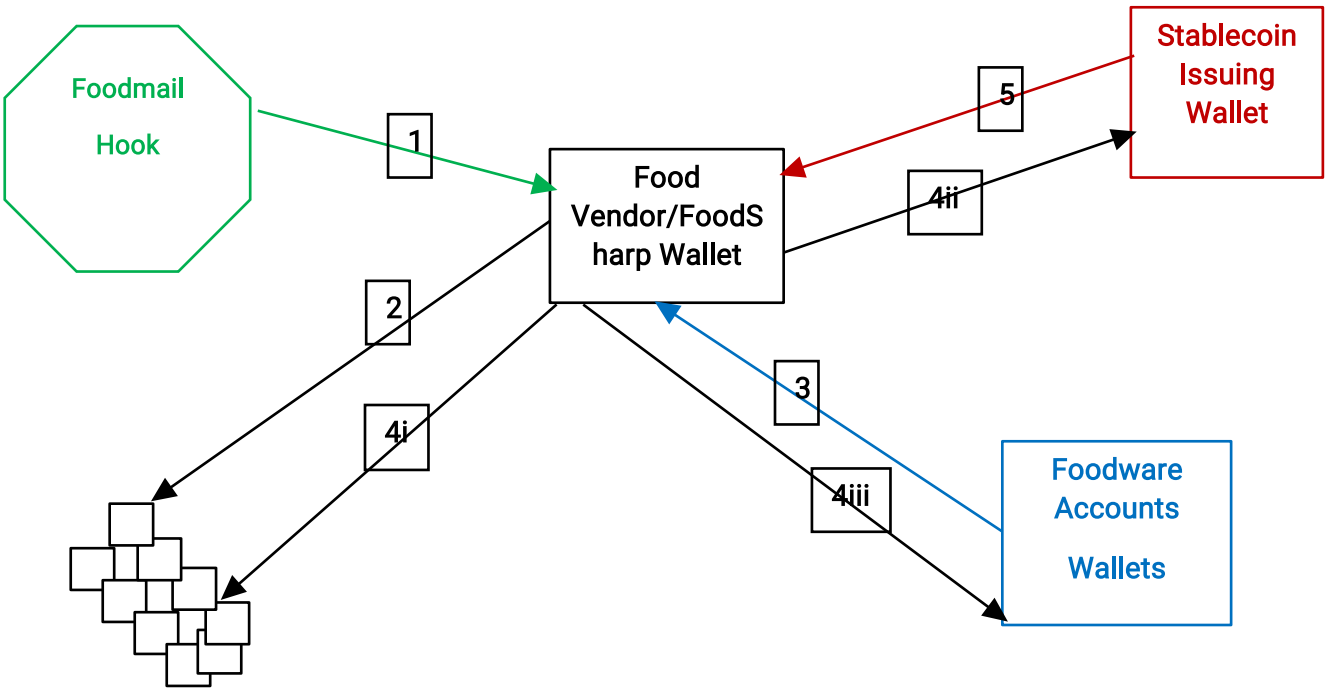
2. Green lines represent transactions related to Foodware Prompter
3. Red lines represent transactions related to FoodSharp & Food Vendor Wallets
4. Broken lines represent non-Hook emitted transactions (from prompter and users)
5. Normal and black lines represent Hook emitted transactions
6. Transaction 1 is an Escrow create transaction made by the User wallet and it locks 0.2 XAH in the Escrow for the delivery period. The funds are directed to the Foodmail Hook Wallet.
7. Transaction 2 is an Escrow Finish transaction made by the Foodware Prompter wallet and it adds a memo that carries information on the recipients of the Escrowed funds (Vendor IDs, allocated amount to each Vendor ID, Rider ID, and the allocated Rider Amount) or failed and transaction fee in the case where the products are not delivered.
8. Transaction 3 represents the reflection Escrow finish transaction that drops the Funds in the Foodmail Hook Wallet, this transaction puts the hook in a computational state and it responds by emitting Transaction 4 or Transaction 5 and 6.
9. Transaction 4 is a Hook emitted transaction back to the user wallet this transaction result after the memo Tag information writes “Failed” and “Transaction Fee =??? Token/XAH”, and the Hook will subtract the fee from the received amount and send the rest back to User wallet with a memo tag info “Delivery Canceled”.
10. Transaction 5 is a Hook emitted Transaction to the FoodSharp Wallet, after reading the Memo field in the first Memo information case in transaction 2. It extracts the Rider ID and adds it as the transaction Destination Tag, it also extracts the allocated Rider Amount and adds it as the transaction Token amount before emitting the transaction.
11. Transaction 6 is a Hook emitted Transaction to the Food Vendor Wallet, after reading the Memo field in the first Memo Information case in transaction 2. It copies and pastes all the Vendor IDs and their corresponding allocated Amount on the transaction Memo field, and it also sums up all the allocated Vendor amounts and adds them as the transaction Token Amount before emitting the transaction.
12. In order to prevent Escrow Finish Memo Tag hack where any hacker or manipulator can send a malicious Escrow Finish Transaction with a Memo Tag that can halt the system or send inappropriate funds to their target Rider/Vendor Accounts, a SHA Function will be added to the Escrow Create Transaction that only the Foodware Prompter Wallet can fulfill.

## The Food Vendor and FoodSharp Hooks

Basically, they are guard Hooks that listen to transaction on the Xahau but they are made to do a few things automatically:

Whenever a payment is received from the Escrow Hook (XAH, our Token, wrapped L1, XAHL Token), it accepts it and sends a Buy order to the Xahau DEX for our Stablecoin either by direct DEX sales, Auto-bridging or pathfinding. Two it listens to a special account called Foodware Accounts wallet to authenticate certain withdrawals, carryout certain buy orders and change some parameters on the Hook.

### The Process




1. Green lines represent Foodmail Hook emitted transactions
2. Black lines represent FoodSharp/Food Vendor Hook Emitted transactions.
3. Red lines represent Stablecoin wallet transactions
4. Blue lines represent Foodware Accounts wallet transactions
5. Process 1 is a Hook emitted transaction from the Foodmail Hook that deposit a Token (XAH, wrapped L1s, Token, Stablecoin). This transaction is always deposited to the FoodSharp Wallet (Rider) via a Destination Tag transaction and to the Food Vendor Wallet as a Memo Containing all the Vendors IDs and their allocated values, or just a Destination Tag in the case of a single product purchase like Utensils and Cooking

equipments.

6. Process 2 is a Sell order transaction to the DEX for our StableCoin and it is a Hook emitted transaction that was triggered by the deposit from process 1. This allows our Vendors to have Stablecoins which they will likely trust and returns the L1s, Token, and XAH into circulation. It should be able to use auto-bridging, pathfinding, or normal DEX action to get the best price for the exchange. We also recommend adding the stablecoin value of the L1s, Token, XAH in the Memo tags to allow it to discuss what it should swap the Asset for. If the deposit is in our StableCoin this process is omitted.
7. Process 3 is an Invoke transaction from the Foodware Accounts Wallet (Our Admin Panel Wallet) and it carries out three functions.
    i. It sends a instructions for the Hook to buy a certain amount of L1s, Token, and XAH and deliver it user by writing their Vendor or Rider ID in the Memo field, the responds with process 4i.
    ii. It sends an instructions to with a certain amount with a particular Destination Tag (Vendor/Rider ID) to the Stablecoin Issuing Wallet this is in the case of a withdrawal to bank account by Vendors and riders, the Hook responds with process 4ii.
    iii. It sends an instructions to deposit a certain amount of either in the Stablecoins, Token, L1s, & XAH in the wallet to the admin panel (fees, charges, commissions, that were commutated from the vendors and riders), the Hook responds with process 4iii.
8. Process 4i is a buy order set according to the instructions from process 3 and option i above and it is a Hook emitted transactions that buys assets with Stablecoins for a particular Vendor ID.
9. Process 4ii is a withdrawal or funds transfer to the Stablecoin Issuing Wallet according to the Instructions from process 3 and option ii above and it is a Hook emitted transaction that transfers only Stablecoins meant for withdrawals.
10. Process 4iii is a withdrawal or funds transfer to the Foodware Accounts Wallet according to instructions from process 3 and option iii above and it is a Hook emitted transaction that deposits any type of Tokens to the Foodware Account wallet (L1s, Token, Stablecoins, & XAH).
11. Process 5 is a Deposit (Destination Tagged) transaction from the Stablecoin Issuer to either Food Vendor or FoodSharp Wallet and it deposits our StableCoin to the wallet.