

Overview of the Enterprise Management Hub

The Enterprise Management Hub (EMH) acts as a gateway between Minima and the World Wide Web (via the HTTP protocol). Although the idea is simple, the system has much potential because it unlocks a bridge between two powerful concepts - the web and the blockchain.

At its core, the EMH performs three functions (shown in Figure 1, below):

1. Listens for calls to specified URL-based endpoints, which then *trigger* Minima transactions. For example, a `gimme50` endpoint triggers a Minima transaction that distributes 50 tokens (the caller specifies to whom and exactly which tokens to send).
2. Listens for Minima transactions at specified addresses and calls URLs with data within those transactions.
3. Listens for Minima transactions involving specified tokens and calls URLs with data within those transactions.

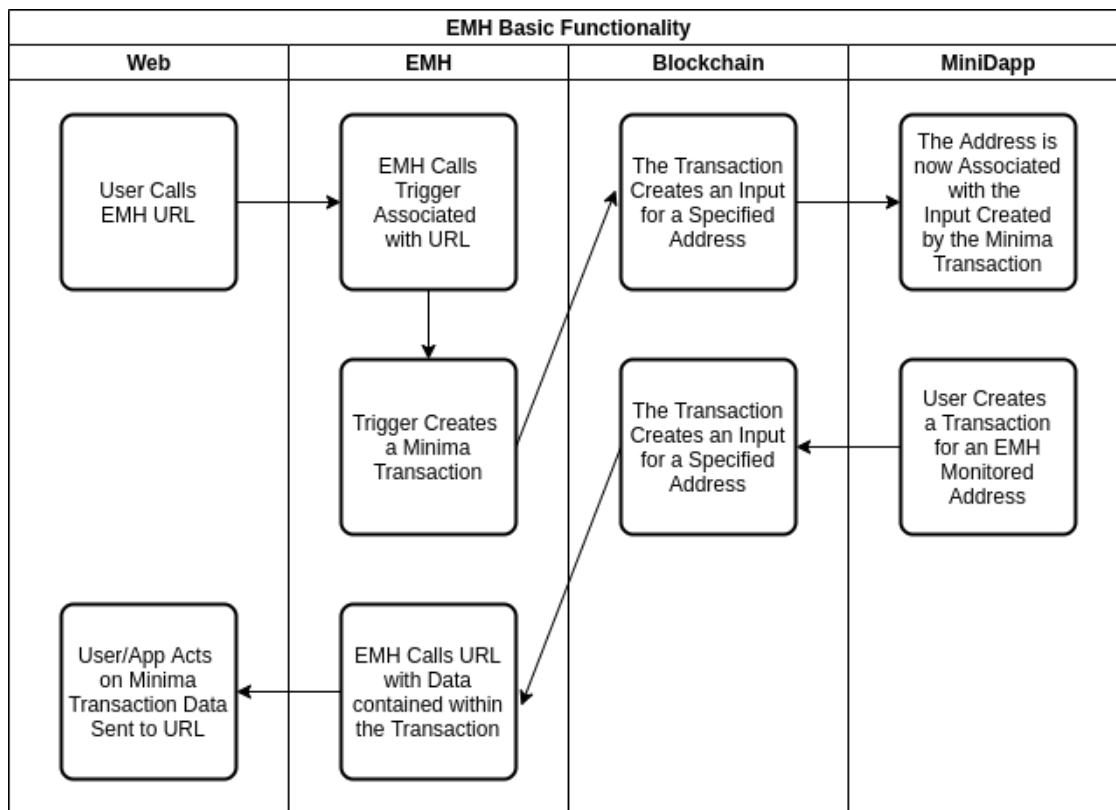


Figure 1: EMH Basic Workflow

The EMH Admin Application

The EMH features a pre-built admin' app' - Figure 2 below shows an early prototype. The app' performs some basic administrator functionality that allows users to:

1. View a log of all actions taken by the EMH
2. Specify Minima addresses and tokens for which the EMH should listen for transactions and to which URL it should call in turn
3. Add triggers to URL endpoints
4. Run triggers

Date Created	Logging Type ID	Logging Type	Data
Wed May 19 2021 13:32:15	https://c140c5ce-574e-4642-ae7f-6968ee267dbb.mock.pst..URL		OK
Wed May 19 2021 13:31:14	0x00003EBE9DC7C87DC02B2D21281767BBF82A2821EC05..TXPOW		insert 0x00 https://c140c5ce-574e-4642-ae7f-6968ee267d...
Wed May 19 2021 13:23:12	0x000026E3D5A2FE8696B687EB470ECFDE6D10F21B4789...TXPOW		delete
Wed May 19 2021 13:23:12	https://c140c5ce-574e-4642-ae7f-6968ee267dbb.mock.pst..URL		OK
Wed May 19 2021 13:22:22	0x000026E3D5A2FE8696B687EB470ECFDE6D10F21B4789...TXPOW		insert 0x00 https://c140c5ce-574e-4642-ae7f-6968ee267d...
Wed May 19 2021 13:17:24	0x00006703A5C5547330F976537382EBE92D6A7EFF228C5...TXPOW		delete
Wed May 19 2021 13:17:24	https://c140c5ce-574e-4642-ae7f-6968ee267dbb.mock.pst..URL		OK
Wed May 19 2021 13:16:17	0x00006703A5C5547330F976537382EBE92D6A7EFF228C5...TXPOW		insert 0x00 https://c140c5ce-574e-4642-ae7f-6968ee267d...
Wed May 19 2021 13:11:51	0x0000942FD0513C5F929CF6B59568F72395A038403B2C...TXPOW		delete
Wed May 19 2021 13:11:51	https://c140c5ce-574e-4642-ae7f-6968ee267dbb.mock.pst..URL		OK
Wed May 19 2021 13:09:48	0x0000942FD0513C5F929CF6B59568F72395A038403B2C...TXPOW		insert 0x00 https://c140c5ce-574e-4642-ae7f-6968ee267d...
Wed May 19 2021 13:01:07	0x000070DF063C1EA516FB8B577A0B20B957BE9FEFBA4CF9...TXPOW		delete
Wed May 19 2021 13:01:07	https://c140c5ce-574e-4642-ae7f-6968ee267dbb.mock.pst..URL		OK
Wed May 19 2021 13:00:07	0x000070DF063C1EA516FB8B577A0B20B957BE9FEFBA4CF9...TXPOW		insert 0x00 https://c140c5ce-574e-4642-ae7f-6968ee267d...
Wed May 19 2021 12:54:08	0x000023346E452B701D4A04FB8DE5B0BCDDA28CBDD20...TXPOW		delete
Wed May 19 2021 12:54:08	https://c140c5ce-574e-4642-ae7f-6968ee267dbb.mock.pst..URL		OK
Wed May 19 2021 12:52:18	0x000023346E452B701D4A04FB8DE5B0BCDDA28CBDD20...TXPOW		insert 0x00 https://c140c5ce-574e-4642-ae7f-6968ee267d...
Wed May 19 2021 12:51:23	0x00003360D1FDD4D59F7A1DDDEC07C47B8985BC418BDDC...TXPOW		delete
Wed May 19 2021 12:51:23	https://c140c5ce-574e-4642-ae7f-6968ee267dbb.mock.pst..URL		OK
Wed May 19 2021 12:49:48	0x00003360D1FDD4D59F7A1DDDEC07C47B8985BC418BDDC...TXPOW		insert 0x00 https://c140c5ce-574e-4642-ae7f-6968ee267d...
Wed May 19 2021 12:46:31	0x000018D055D4C77CC43EA03D5946E646309846B06591...TXPOW		delete
Wed May 19 2021 12:46:31	https://c140c5ce-574e-4642-ae7f-6968ee267dbb.mock.pst..URL		OK
Wed May 19 2021 12:44:50	0x000018D055D4C77CC43EA03D5946E646309846B06591...TXPOW		insert 0x00 https://c140c5ce-574e-4642-ae7f-6968ee267d...
Wed May 19 2021 12:37:09	0x000090C5C525121A8F9F79B393EE30AC28DA9D9AD50...TXPOW		delete
Wed May 19 2021 12:37:09	https://c140c5ce-574e-4642-ae7f-6968ee267dbb.mock.pst..URL		OK

Figure 2: EMH Admin Prototype

The EMH admin' app' is itself a Minima distributed application (MiniDapp). Thus, as well as performing all the EMH administration functions, it also demonstrates the power of Minima MiniDapps.

EMH System Overview

Finally, Figure 3 below shows an overview of the constituent parts that make up the EMH system.

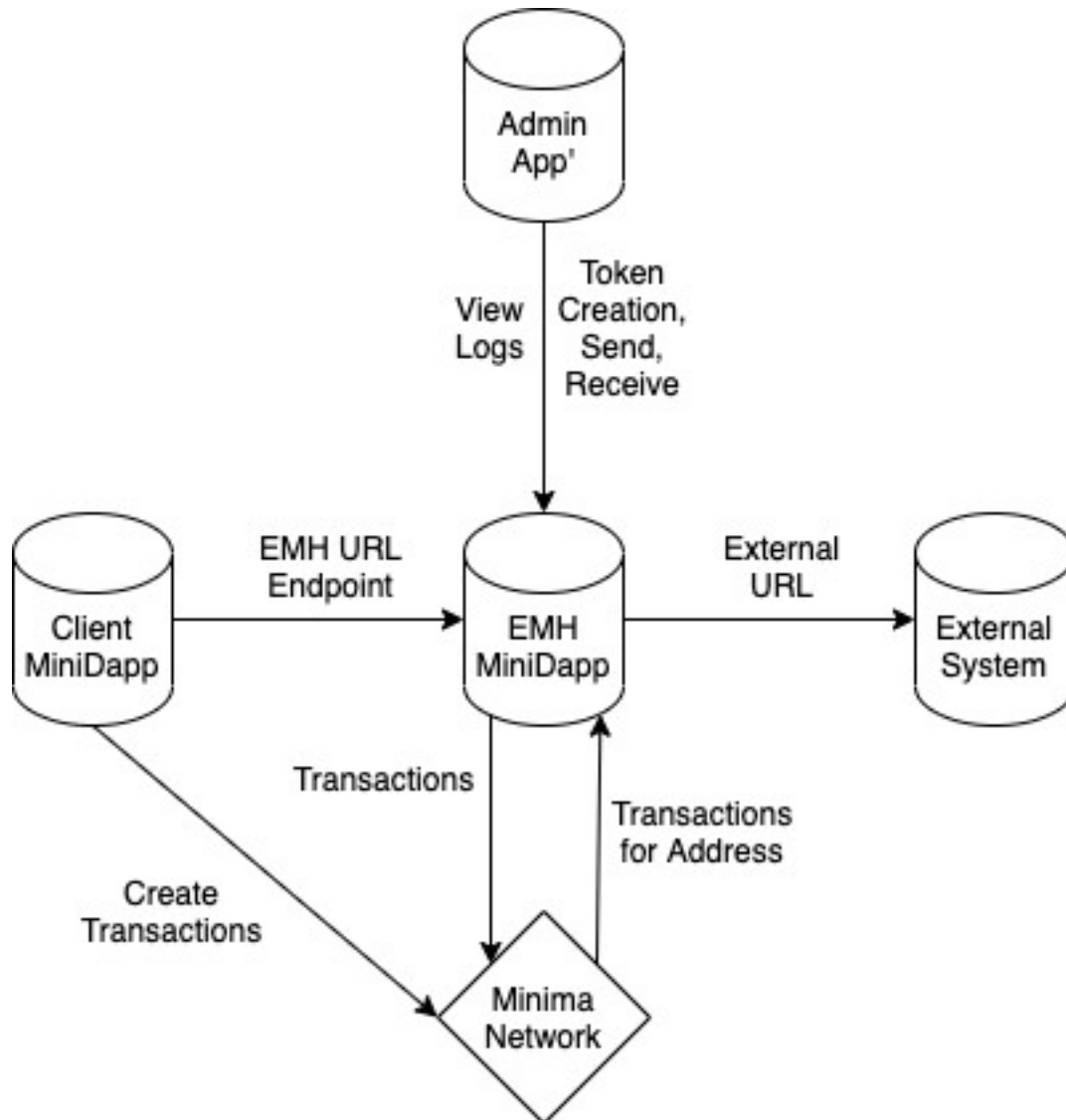


Figure 3: EMH System

Minima's creation of the software at the centre of Figure 3 means that exciting times lay ahead because there are endless possibilities for the client applications and the uses they might unlock for external systems.