

Ocelloids Monitoring Tool

2 - Monitoring and Alerting Console

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Overview

This milestone introduces the core monitoring and alerting capabilities of the platform, along with the first iteration of the user console.

A rule engine and alert engine allow users to define monitoring conditions and trigger alerts. Notifications can currently be delivered through Telegram and Discord, and triggered alerts are also visible in the console dashboard.

For analytics and metrics storage, the platform integrates DuckDB, enabling efficient querying and aggregation of time-series data.

We also introduced an address tagging system with a public registry of categorized addresses sourced from OFAC sanctions lists, Merkle Science tags, Polkadot.js phishing registries, and internal classifications. Authenticated users can additionally create private tags for their own monitoring workflows.

To simplify alert configuration, the platform provides predefined alert templates for:

- Crosschain and intrachain transfers
- Watched entities
- Crosschain asset issuance balance status
- OpenGov activity

Deliverables

Tasks	Deliverables	Links
1.a Documentation	User guides, documentation and support materials	Hyperion README
		Hyperion API Docs
		User guide
1.1 Rule Engine	The rule engine evaluates incoming onchain events based on user-defined rules and forwards events to the alerting engine if conditions are met.	Implementation
1.2 Alert Engine	The alerting engine supports delivery through Telegram and Discord, and integrates with the console dashboard to display active alerts and monitoring status.	Implementation
1.3 InfluxDB integration	We ultimately decided to use DuckDB instead of InfluxDB for timeseries and analytics data. We are currently storing transfers, both intrachain and crosschain, with address tags to identify categorized flows e.g. exchange flows.	Implementation
1.4 Address Tagging	We have an ingestion pipeline to periodically load from OFAC sanction lists, Subscan API for Merkle Science tags, Polkadot.js phishing list, onchain identity as well as our own intelligence. Authenticated users can configure private tags and categories for any address.	Ingestion pipeline implementation
		Public registry view
1.5 Predefined Alerting Templates	Current templates supported: <ol style="list-style-type: none"> 1. Transfers by amount and address tags/categories 2. Watched entities 3. Crosschain issuance/sovereign account balance 	Implementation

	4. OpenGov activity	
1.6 Console UI	<p>Initial version of the console UI including:</p> <ul style="list-style-type: none"> • User authentication • Alert creation and management using templates • Alert dashboard displaying triggered alerts • Visualization of CEX flow time-series • Visualization of exchange inflow, outflow, and netflow by exchange • Visualization of cross-chain asset issuance and locked collateral on origin chains, including balance status indicators • Configuration of alerting channels <p>Public Telegram channel created for all public alerts</p>	Deployed UI
		Implementation
		Join Hyperion Alerts Telegram channel