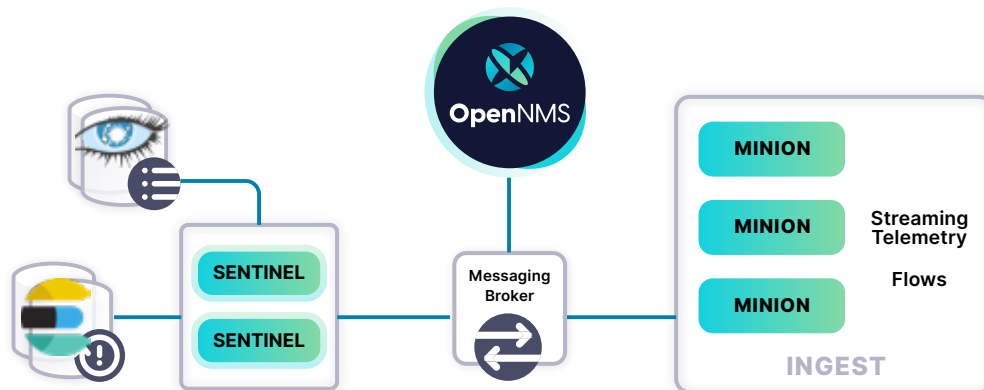# Sentinel

Scalability with OpenNMS Sentinel

With increased data collection comes the need to scale processing of that data, to avoid overwhelming or slowing down the monitoring system. The OpenNMS Sentinel component provides dynamic scalability for data processing, including flows, SNMP traps, syslog messages, and streaming telemetry. It also supports thresholding for streaming telemetry if you are using OpenNMS Newts for time-series data.

Sentinel runs in a Karaf container that handles data processing for OpenNMS and Minion, spawning new containers as necessary to deal with increased data volume.

Features

Flow Processing

Scale the processing of flow data on an as-needed basis.

Distributed Thresholding

Thresholding for streaming telemetry on Sentinel when using OpenNMS Newts for time-series database storage.

Persistence Storage

Persist measurement data to OpenNMS Newts.

Auto Install

Sentinel supports auto or hot deployment.

Meridian Sentinel

Subscription-based Sentinel. Same Horizon Sentinel features in a more stable, secure offering.

Technical Requirements

OpenNMS	OpenNMS instance and Minion installed.
Versioning	OpenNMS instance, Sentinel, and Minion must be the same version.
	Java installed OpenJDK 8, OpenJDK 11
Third-party software requirements	Apache Kafka (version 2.0.0 or later) Cassandra (if using Sentinel for distributed thresholding)