



# Log Analytics v1.0

Assure service performance and security to maximize customer satisfaction.

### **Benefits**

- Provides a fully tested and vendor-supported distribution of the industryleading search data engine from Elastic<sup>TM</sup>
- High-performance, vendor agnostic, and closed loop to the control system.
- Bundled open source pipeline approach yields an end to end data stack in a single delivery package.
- Docker container run time environment enables a hardware agnostic solution supporting bare metal or virtual hosting on private or public clouds.
- Real-time contextual message indexing using an XML based pattern definition template and expression-based matching.
- DevPack add-ons deliver out of the box templates to support managed products with no additional development.
- High speed REST northbound API with cluster-wide search and egress message bus delivery.

### Use Cases

- Secuirty Visibility
- Mobile Edge Visibility
- OpenStack Visibility
- ONAP DCAE Visibility

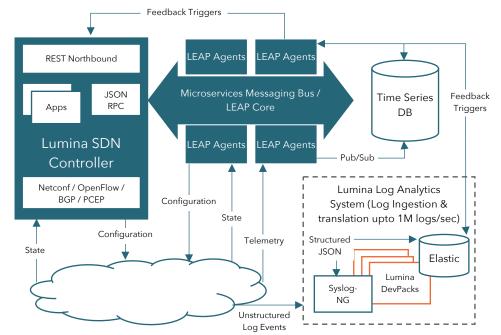
# At a Glance

Delivering on a primary objective to ingest, process, organize and retain security log message streams, OLS enables efficient open access of indexed message data by backend security analytics and threat detection platforms, unlocking deep visibility into firewall performance and traffic behavior.

The OLS approach is based on community driven projects, stitched together and abstracted into a common open-source process pipeline. The resulting data stack is quality assured, scale tested and packaged with traditional commercial software support, mitigating Lifecyle risk and providing ongoing capital protection.

Offered with an unlimited volume pricing model and able to handle extreme message rate while requiring only minimal resource expense, OLS is a must-have function for a modern security OSS architecture, shown to quickly return customer business value.

#### **Solution Architecture**



# **Specifications**

#### Ingestion & Processing

- Maximum single instance message rate of 100K log messages per second.
- Load balancing function to distribute a single incoming stream to pools of listeners using either UDP or TCP inside connections
- Maximum cluster message rate of upto 1M logs/sec
- Scalable concurrent listeners, ingesting, indexing and inserting optimized message date into the date engine
- Support for standard syslog UDP/TCP message and IPFix binary stream message, over either IPv4 and IPv6
- Pre-processing ability to take accept or drop action based on message property matches

### Data Organization

template with patternmulti-threaded queryrun the same query acrossmatching to defineengine, supportsmultiple data engine instarindexed key value pairsfiltering on key valuereturning results into a com• Message contentpairs and returnsmessage bus topicsubstitution, driven by amatching logmatching loglookup against anmessages with orwithout extendedexternal mapping tablewithout extendeddetail	
---	--

#### Data Retention

 Uncompressed data is stored for 72 hours to optimize performance of short-term results.
After 72 hours, data will be compressed and stored for 14 days.
After 14 days, compressed data will be moved offline for up to 180 days.

### Open Access

•	High performance REST	•	"Raw" message bus provides	•	"Cluster" message bus
	API to drive backend		data buffering improving		aggregates data engine
	integration and provide		data reliability and outside		instance output stream
	directional query		system access.		and provides
	interface.				asyncronous status
					information.