# BlackLynx for Splunk Dashboard Descriptions

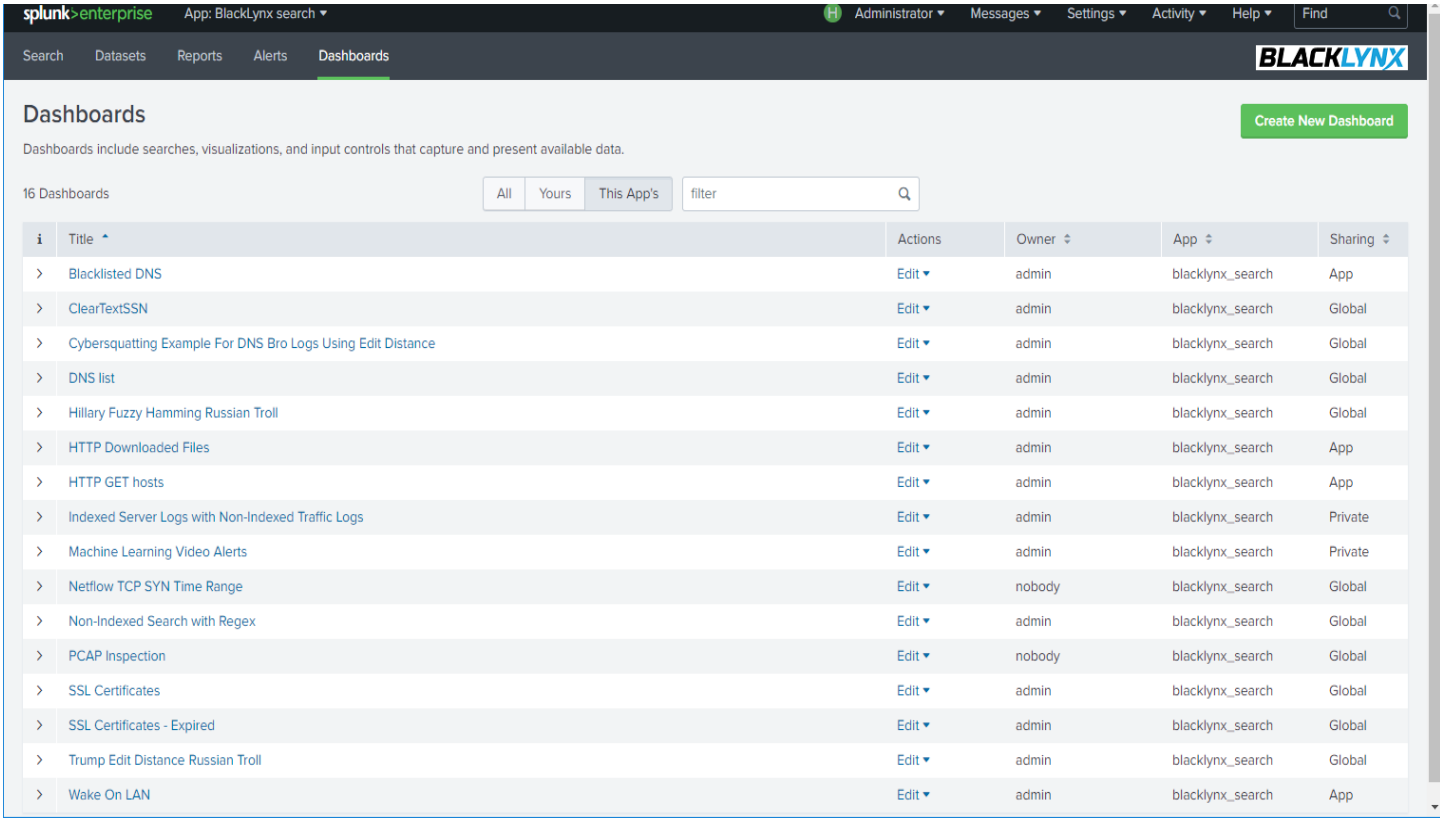
*BlackLynx technology combines high performance heterogeneous computing (accelerated CPUs, GPUs, and FPGAs) with standard applications and protocols to achieve high performance analytics*

**Prerequisites**
Install Splunk BlackLynx App version 1.0.2

**BlackLynx for Splunk brings the enhanced speed and search capabilities of the BlackLynx solution to the Splunk Search, Dashboard, and Alerts features. This is done using the BlackLynx Splunk Apps *blstructsearch and blunstructsearch*.**

**This document describes each dashboard, the corporate function it provides and details the methodology used by BlackLynx to demonstrate potential solutions to the problems.**

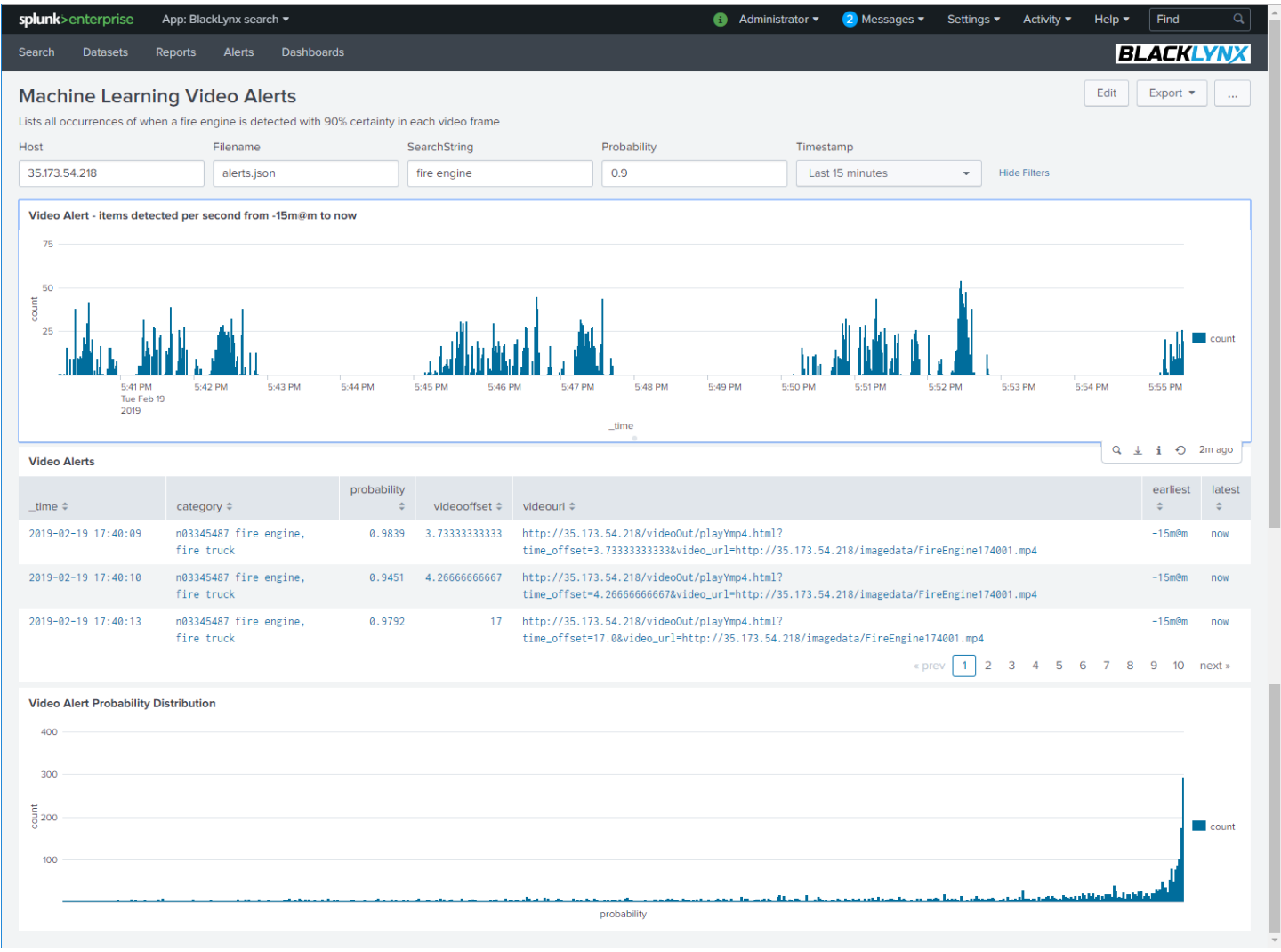
**Each of these dashboards are designed to highlight some aspect of BlackLynx's ability to rapidly search and process large data sets without the need to Extract, Transform, and Load (ETL) the data.**




**BlackLynx for Splunk Dashboards**

**Dashboard Solution Statement:**

The Machine Learning Video Alerts dashboard lists the alerts registered in the BlackLynx object detection demo, shows the time and probability distributions, and provides an interface into the alerts webpage. The raw data is the JSON output of the machine learning object detection and classification system. Clicking on the videouri entry




**Machine Learning Video Alerts Dashboard**

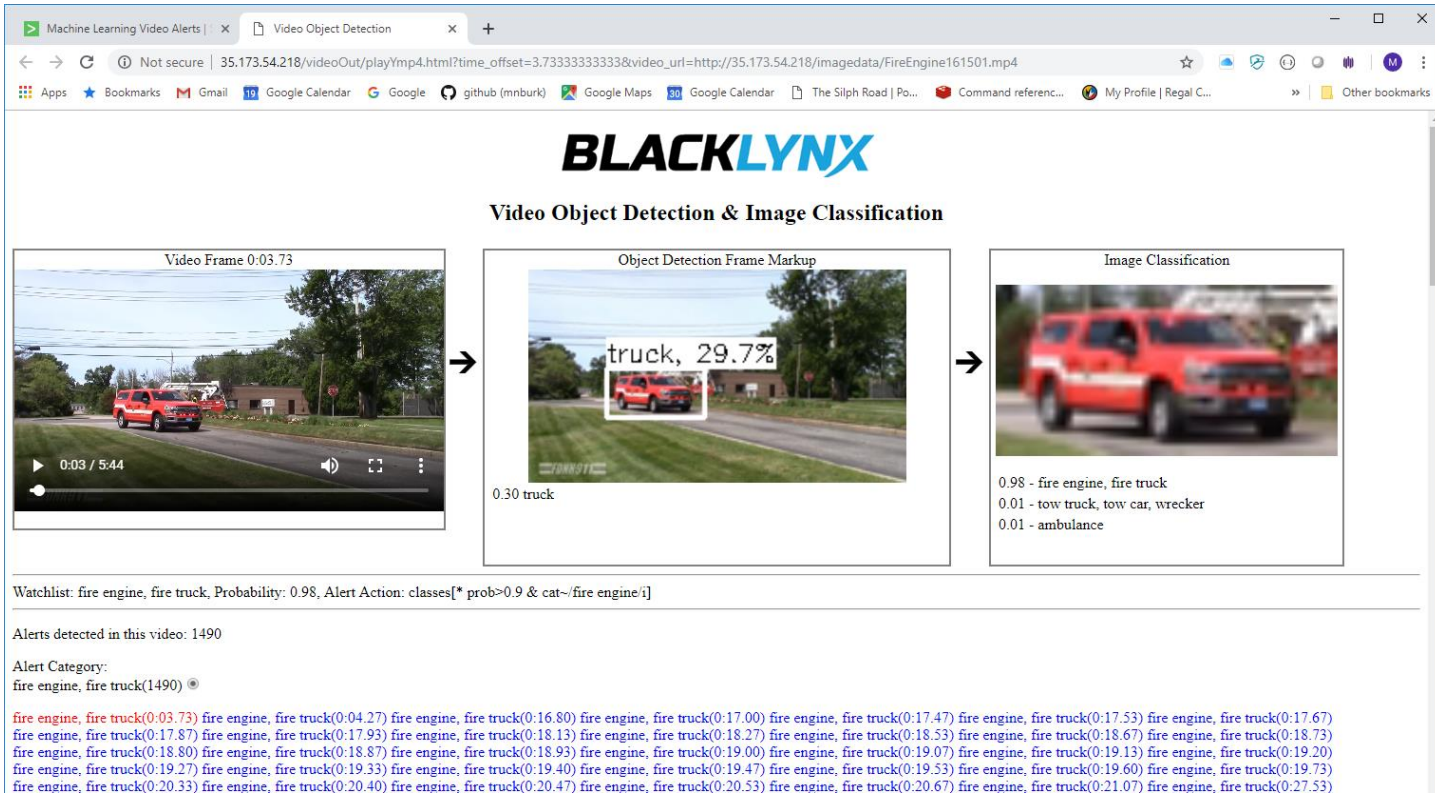
# BlackLynx for Splunk Dashboard Descriptions:
# Machine Learning Video Alerts - continued

**Query Inputs:**

Host – BlackLynx server hostname or IP Address
Filename – PCAP file(s) to be searched relative to "/ryftone" directory
Search Expression – the alert text used in the video demo
Probabilty – the detection probability used to generate the alert. The default is 90% certainty
Timestamp – Time range for the alerts to be displayed; may be absolute or relative

**BlackLynx Capabilities:**

- Search of native JSON files extracting alerts that meet the criteria (type, probability, and time
- Return of the results to Splunk in a JSON format
- Demonstrate the ability to call up web pages based on the data in the Splunk table.




**BlackLynx Video Object Detection and Classification Demo Page**