



## World's Largest Laser Facility Unlocks Secrets of the Universe with Splunk

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### ***Splunk Enterprise and Splunk ITSI Help National Ignition Facility Make Data-Driven Decisions to Keep Nuclear Stockpile Secure***

SAN FRANCISCO & ORLANDO, Fla.--(BUSINESS WIRE)--Oct. 3, 2018-- .conf18 -- [Splunk Inc.](#) (NASDAQ: SPLK), delivering actions and outcomes from the world of data, today announced that the National Ignition Facility (NIF), steward of the country's nuclear stockpile, is [taking action on data](#) from the world's largest and most powerful laser facility using [Splunk® Enterprise](#) and [Splunk® IT Service Intelligence \(ITSI\)](#). Splunk helps NIF to improve system uptime and performance and respond to IT challenges before they happen, giving their team of world-renowned scientists more time back to conduct a wide range of experiments that help keep the country safe.

NIF houses 192 giant laser beams used to conduct experiments -- known as laser shots -- which promote and enable the bleeding edge of scientific research. Founded by the National Nuclear Security Administration, NIF provides key support for the United States Stockpile Stewardship program, which keeps the nation's nuclear stockpile safe, secure and effective. The facility also conducts experiments into fusion ignition and explores astrophysics, materials science, nuclear science and other areas that help the United States keep a competitive advantage in scientific endeavors.

"NIF exists to advance science and keep the nation's nuclear stockpile secure. To do that, our team needs access to the right data, to make decisions and take action at the right time," said Phillip Adams, chief technology officer and lead architect, National Ignition Facility. "With Splunk, we can bring the data from many disparate sources to every IT analyst, engineer and scientist at NIF. This gives our scientists the ability to take laser shots when we need to and accomplish our mission."

Splunk sits at the heart of NIF's Computer Control System (CCS), which manages over 66,000 control points to power NIF's massive laser facility. NIF uses Splunk Enterprise with Splunk ITSI as a business platform within the CCS, allowing the lab to take action on machine data from a variety of sources, including application data, operational data, and sensor data like laser voltage, temperature and pressure. Powered by the Splunk Machine Learning Toolkit, this level of advanced insight allows NIF to respond to IT issues and predict abnormal behavior within the laser facility, which improves availability and enables NIF to conduct over 400 laser shots per year.

NIF also uses Splunk for Internet Of Things (IoT) use cases, including diagnostics and analytics on a wide range of sensors, with cameras, thermometers and motors that are critical components of its laser facility's infrastructure. Using Splunk ITSI, NIF can detect when these sensors begin to decay, which allows them to repair sensors before they falter and cause potentially unscheduled downtime.

"Just when you think you've seen it all from our customers, you find an organization like NIF, at the forefront of science and technology, getting answers and taking action on data from lasers," said Susan St. Ledger, president, worldwide field operations, Splunk. "We are proud to partner with NIF to solve some of their toughest mission challenges as they continue to explore new frontiers in astrophysics and nuclear science."

For more information on Splunk solutions, visit the [Splunk website](#).

### **About Splunk Inc.**

Splunk Inc. (NASDAQ: SPLK) helps organizations ask questions, get answers, take actions and achieve business outcomes from their data. Organizations use market-leading Splunk solutions with machine learning to monitor, investigate and act on all forms of business, IT, security, and Internet of Things data. Join millions of passionate users and [try Splunk for free](#) today.

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