

Sensor and Data Services



# Extensible Load-Adaptive Processing System (ELAP®)

## Features

- **Modular, distributed, multi-threaded processing**
- **Scalable to meet ever increasing data processing requirements**
- **Plug-in architecture creates a highly extensible environment for data processing**
- **Load-adaptive to dynamically adjust to current processing demands**
- **SDK allows independent development of new processing capabilities**

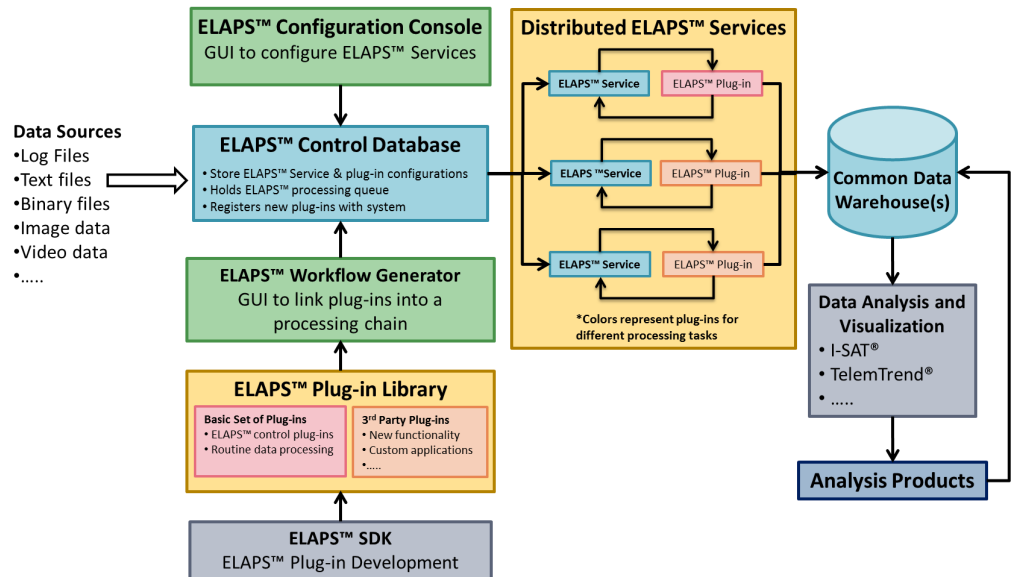
## Benefits

- **2x to 10x speed up realized for imagery processing**
- **Reduced time between data collection events and evaluation of the system performance**
- **Reduced cost per the reduction in manual processing so Subject Matter Experts can focus on analysis**
- **Centralized control of data management tasks enables traceability in all processing**
- **Plug-in architecture enables code reuse and extensibility**
- **No recompiling or replacement of core ELAPS™ software components necessary when adding or modifying plug-ins**

FTI's ELAPS™ software provides an automated data processing solution.

FTI's ELAPS® (Extensible Load-Adaptive Processing System) software suite is designed to increase the efficiency of high volume data processing by addressing the core requirements of automation, scalability, and extensibility. At the core of the ELAPS™ architecture are distributed independent processing services. Extensibility is achieved through the implementation of customized workflows assembled by linking discrete, independently developed, plug-ins together to create highly flexible data processing chains. The ELAPS® services are uniquely designed to respond to available data in a load-adaptive manner, shown to reduce processing times by 2x to 10x over what can be achieved with statically designed systems. The automated data processing enacted by the ELAPS® software can dramatically reduce the time from data acquisition to analysis and evaluation by eliminating many manual processes. The result is near-immediate access to the information present in generated data, with no need for users to process raw data files directly.

- Approved for installation and processing of operational STSS datasets, with >10x speed up on processing speed



ELAPS™ suite can be applied to repetitive multi-step processing of large datasets

- Electro-optical infrared (EOIR) wide field of view imagery
- System-of-systems test for Operational Test and Evaluation (OT&E)
- Decoding and calibrating fleet-wide flight recorder data
- Acoustic data filtering and anomaly detection

For more information, please contact [ProductInquiry@FTI-NET.com](mailto:ProductInquiry@FTI-NET.com)

Sensor and Data Services



## Extensible Load-Adaptive Processing Service (ELAPS™)

### Technology developed under SBIR Contracts:

A10-009 Phase II    Contract #: W91151-12-C-5000    TPOC: Mr. Scott Coleman

MDA09-021 Phase II    Contract #: HQ0147-13-C-7113    TPOC: Mr. Thomas Roberts

For more information, please contact [ProductInquiry@FTI-NET.com](mailto:ProductInquiry@FTI-NET.com)