

Aricent's ELPS  
reduces product  
development, testing  
and integration  
complexity

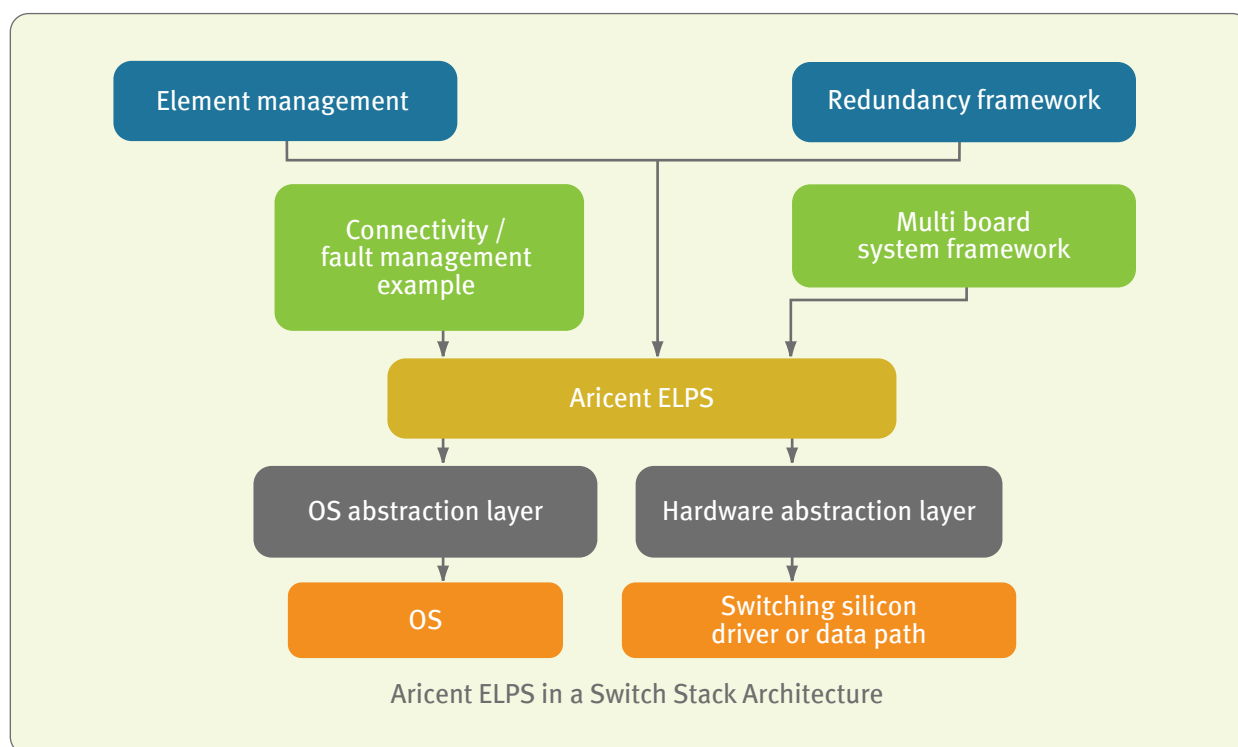
## G.8031 Ethernet Linear Protection Switching (ELPS)

### Aricent Ethernet Linear Protection Switching

Aricent ELPS is a portable implementation of the Ethernet path protection switching mechanisms specified in the G.8031 specification from the ITU-T. The G.8031 defines the specification for Ethernet linear protection to protect point-to-point Ethernet paths. Implementation of protection switching allows carrier Ethernet networks to meet higher levels of fault tolerance, resilience and service level agreement satisfaction.

### Aricent ELPS Architecture

The software is implemented in a modular and portable manner, which allows you to easily integrate it into a variety of Ethernet switch designs based on different combinations of processor, operating system and Ethernet switching silicon. The software is implemented with clearly defined interfaces to other components in the switch, including abstraction layers for the operating system and switching silicon interfaces, allowing a developer or system integrator to integrate it easily.



## Key Features

### Aricent ELPS:

- Implements the Ethernet Automatic Protection Switching (APS) protocol as defined in the ITU-T G.8031 / Y.1342 specification
- Implements the 1:1 bi-directional protection architecture with APS communication
- Supports revertive and non-revertive modes of operation
- Supports a generic abstraction to protect different types of Ethernet paths – Ethernet ports / C-VLANs / S-VLANs / B-VLANs
- Supports protection using multiple models of working and protection entities including:
  - Port disjoint
  - Service disjoint
  - Port and service disjoint
- Implements the capability to execute multiple instances of the protocol to support multiple virtual switch contexts
- Implements support for high-availability
- Implements support for multi board systems for example, modular chassis based switches
- Provides comprehensive support for configuration and management through different schemes such as SNMP and CLI
- Provides a proprietary set of MIB objects for management through SNMP
- Provides support for notifications through traps
- Provides generic APIs for easy integration with related software modules from other sources
- Conforms to Aricent's Flexible Software Architecture for Portability (FSAP) framework, for portable code

## Key Benefits

**Accelerate Time-to-Market:** Reduces product development cycles thereby accelerating time-to-market for OEMs and VARs

**Reduce Complexity:** Reduces product development, testing and integration complexity

## Deliverables

- Source Code written in C
- Porting Process Document

## Licensing

Aricent ELPS is offered with a source code usage license on a specified platform, with unlimited object code distribution.

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