

# Implementation Assessment CLIO Simplification



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## Introduction

The following milestone completion document applies to Project 2 - CLIO Simplification Design. This project is recorded in the OpenSFS Lustre\* software Development contract SFS-DEV-002 agreed August 23rd, 2013. The CLIO Simplification Design work is complete and recorded in the documents:

- [CLIO Simplification Scope Statement](#)
- [CLIO Simplification Solution Architecture](#)
- [CLIO Simplification High Level Design](#)

CLIO Simplification project is primarily concerned with reducing the complexity of the Lustre file system IO stack. This software component is estimated to have contributed over 400 bugs to the Lustre file system in the 2.x series. This project will deliver simpler CLIO stack that is open to enhancement and with less opportunity to conceal bugs.

## Proposed Scope of Implementation

- cl\_lock re-factoring (simplified and cache-less.)
- loctl calls implementation.
- Remove obsolete OBD API call-backs.
- Remove non-linux interfaces.
- Remove stripe md direct access beyond LOV layer.

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\* Other names and brands may be claimed as the property of others.  
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## Effort Estimate

The project is estimated to run for 37 weeks from the beginning of Implementation through to project Close. The project may be completed over six measurable stages listed below.

<i>Phase</i>	<i>Elapsed Weeks</i>
Implementation	15
Performance Test	4
Test and Fix	10
Landing	4
Stabilization	4