



# OPEN

Compute Project

## Security Project Charter

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## Overview

The Security Project creates designs and specifications to enable software security for all IT gear through collaboration with the wider Open Compute community. This project provides a foundation for securing all IT gear that is designed in other Open Compute projects. Successful projects delivered by this project will:

- Remove redundant effort required by other projects to create their own security solutions
- Provide standard hardware and software security implementations
- Provide flexible solutions that will work across different types of IT equipment
- Standardize components required for hardware based software security
- Improve security across the entire cloud computing industry through open standards
- Use existing and emerging standards where appropriate

## In-Scope Activities

The Security Project will focus on the following:

- Standard hardware interface and protocols for ensuring boot code integrity
- Open-source firmware for dedicated security hardware
- Security firmware APIs and protocols
- Change of ownership of the IT gear (e.g. resale)
- Firmware Security provisioning methodologies
- Secure boot of firmware and operating system
- Recovery from a compromised or untrusted state
- Securing and verifying all mutable storage (flash for BIOS, BMC, microcontroller(s), CPLD, etc)
- Secure updates to mutable storage with versatile rollback-protection options
- Conformance to standards developed in this project

## Out of Scope Activities

The following areas will be out of scope of the Security Project:

- IT gear physical security countermeasures and anti-tamper
- Application level secure coding practices
- Software/hardware penetration testing
- New Encryption/Compression algorithms