

Open Enclave SDK

October 30, 2019

What is Open Enclave?

Open Enclave is an SDK for developing applications for *trusted execution environments* (TEEs).

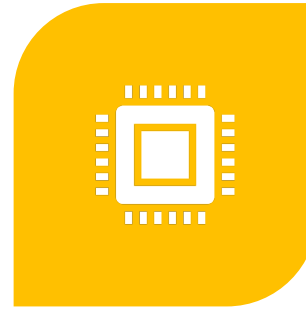
Key Characteristics



LOW-LEVEL C/C++ API



**FULLY OPEN-SOURCE AND
TRANSPARENT**

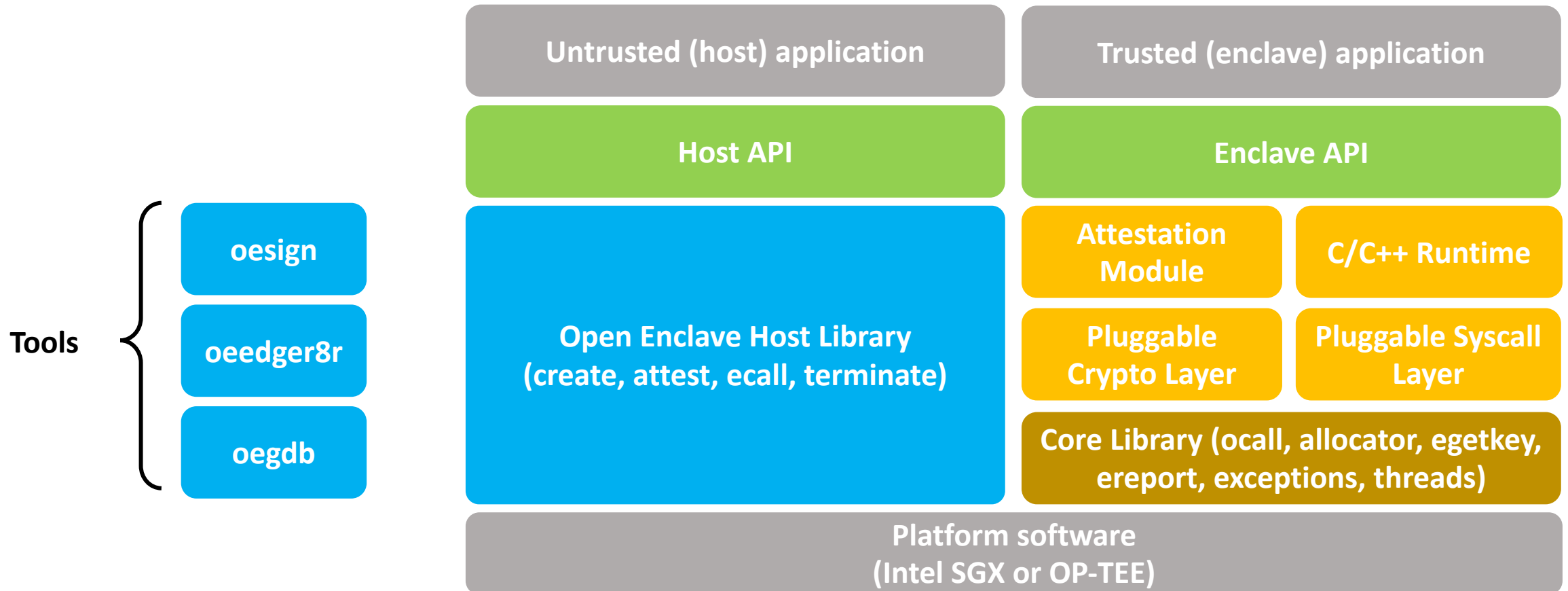


**WRITE ONCE, RUN ACROSS
SGX, TRUSTZONE, AND FUTURE
TEES**



**SUPPORTS LINUX, WINDOWS,
OP-TEE OS**

High-level architectural diagram

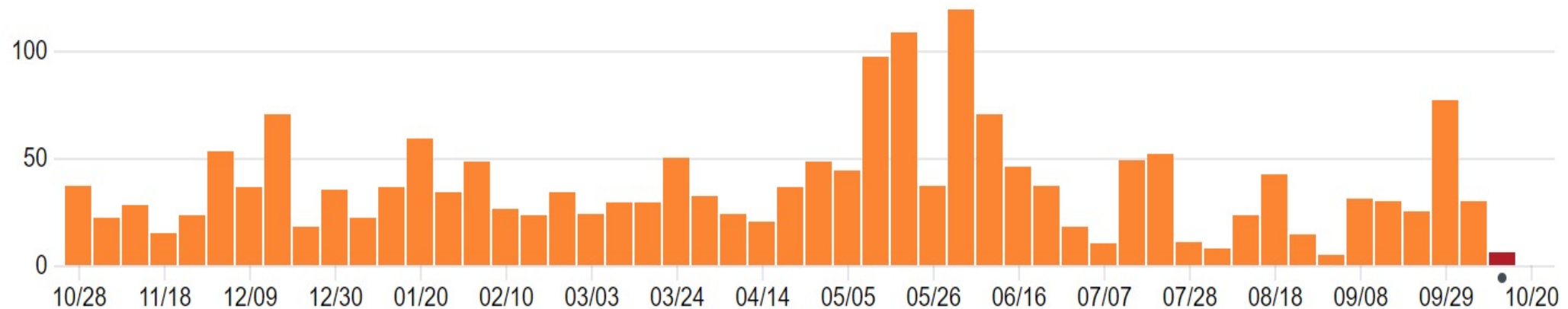


Working transparently

- Github: <https://github.com/openenclave/openenclave>
- Publicly available since October 2018
- Design proposals are public (in the form of PRs)
- All features developed in public branches
- All pull requests (PRs) are public
- Regular maintainer calls
- Regular triage calls

Github Statistics

- Over 5000 commits and 8 releases since publication date
- Over 50 contributors, 100 forks, 285 stars, and ~1,350 PRs
- Continuously active project with ~25-100 commits a week



Adoption and traction

- Three projects are already using Open Enclave.
- There may be others we don't know about yet.
- Beginning to see contribution outside Microsoft:
 - Creating issues
 - Submitting bug patch PRs

What's next?

Build a community that will decide what's next.