

 **PARSEC**

Marc Meunier marc.meunier@arm.com

SW Ecosystem Development Team

Overview
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PARSEC: A Platform Abstraction For Security

Any Workload, Any Programming Language, Any Container Runtime, Any Packaging



PARSEC

Any Platform, Any Architecture, Any Hardware

Discrete TPM

Firmware TPM

Local HSM

Remote HSM

Trusted Apps

Custom

Why Parsec?

Cloud

- Rich Workloads
- Multi-Tenant
- Cloud-Native Development

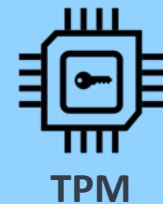


Edge

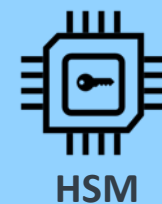


Endpoint

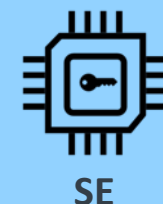
- Threat Landscape
- Variety of Platforms
- Device-specific RoT



TPM



HSM



SE

PARSEC: An opensource collaborative project



arm



NXP



docker



MIRANTIS



SolidRun
Embedded Edge Computing



56k CLOUD



arm
PELION



spiffe



Red Hat



SPIRE



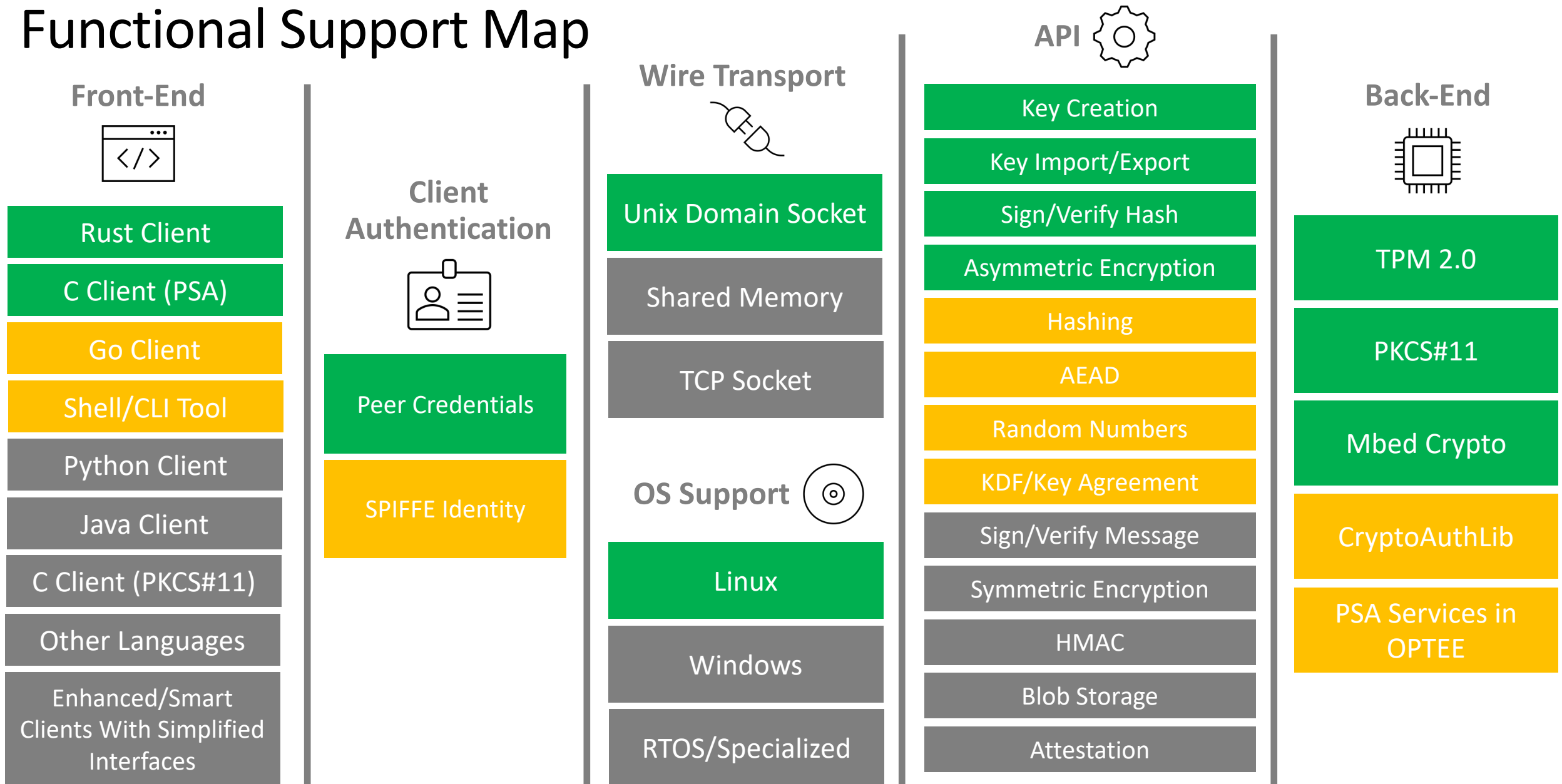
PARSEC

PARSEC Value Proposition

- **Abstraction** – a common API that is truly agnostic and based on modern cryptographic principles
- **Mediation** – security as a microservice, brokering access to the hardware and providing isolated key stores in a multi-tenant environment
- **Ergonomics** – a client library ecosystem that brings the API to the fingertips of developers in any programming language: “easy to consume, hard to get wrong”
- **Openness** – an open-source project inviting contributions to enhance the ecosystem both within the service and among its client libraries



Functional Support Map



Available



Incomplete or partial support



Not yet implemented



Where to find us



<https://github.com/parallaxsecond>



<https://parallaxsecond.github.io/parsec-book>



#parsec on CNCF <https://cloud-native.slack.com>



Weekly community call (see GitHub)

Note: “parsec” was already being used as an organization name in GitHub, which is why the expanded “parallaxsecond” term was selected instead.