# The OpenSSL Library

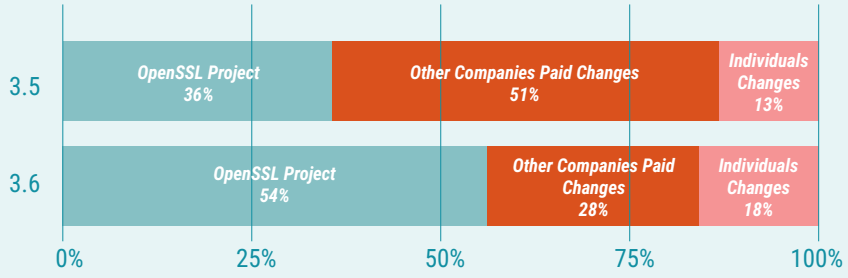
## Cryptographic Infrastructure for the Modern Internet

The OpenSSL Library, its forks, and derivatives are the most widely deployed cryptographic toolkit implementing TLS, encryption, digital signatures, certificate management, and secure communications protocols.

**OPERATING SYSTEMS** | **WEB SERVERS** | **CLOUD PLATFORMS** | **EMBEDDED SYSTEMS** | **ENTERPRISE SOFTWARE**

**Modern digital infrastructure depends on reliable and secure cryptography**

### OpenSSL Library Contributions




The OpenSSL Corporation sustains the engineering work that keeps the OpenSSL Library secure, stable, and freely available to the world.

Commercial support contracts fund the majority of the project-paid development work on the OpenSSL Library and the operational work required to maintain it.

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Security & Privacy for Everyone

# Core Capabilities

## Secure Communications

TLS 1.2 and TLS 1.3 for encrypted communication across the Internet.

## Certificate and Trust Infrastructure

X.509 and PKI support for authentication and certificate management.

## Cryptographic Foundations

Encryption, hashing, and digital signatures for confidentiality, integrity, and authenticity

## Extensible Cryptography

Extend or replace cryptographic implementations while using the same OpenSSL APIs.

## Compliance-Ready Cryptography

FIPS 140-3 validated cryptographic provider for regulated environments.

## Future-Ready Security

Support for classical and post-quantum cryptographic algorithms.

**Learn more about how we can help you more effectively use the OpenSSL Library in your applications and infrastucture**

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