

Security Architecture & Models

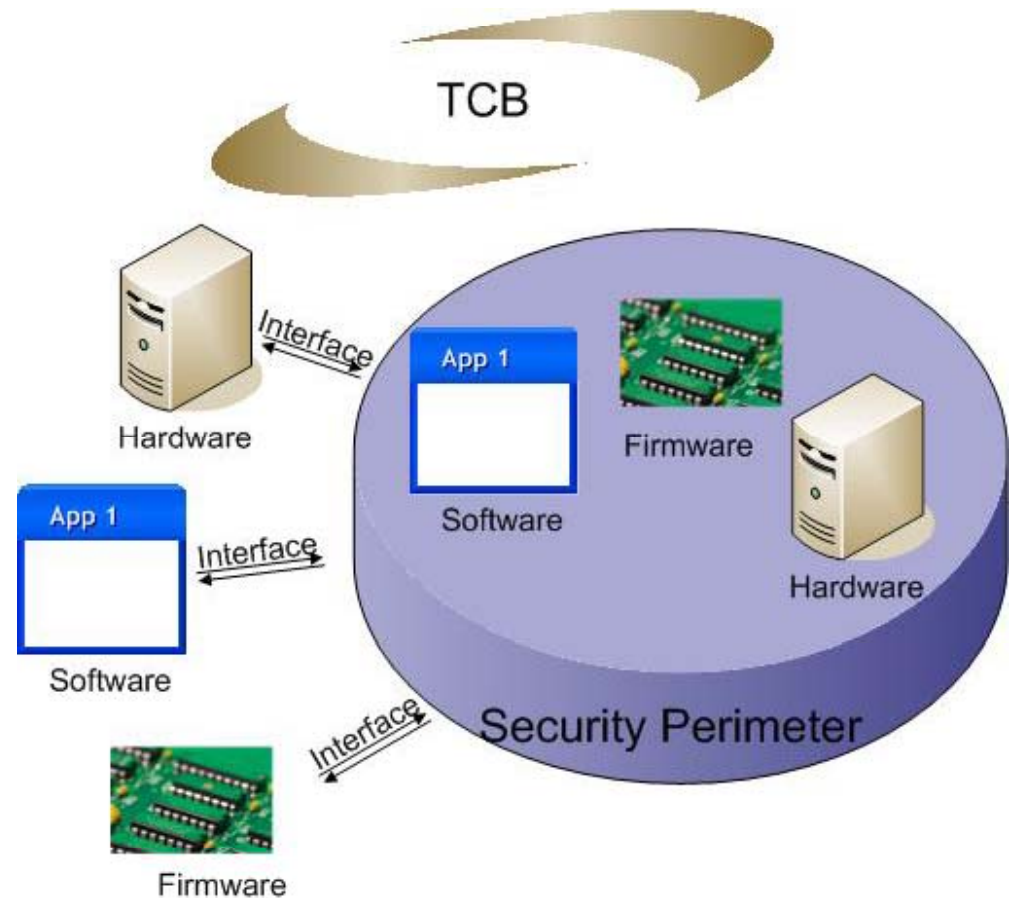
Security Technology and Tools

Operating System Protection

- ❑ TCB Trusted Computer Base
- ❑ Security Perimeter
- ❑ Layering
- ❑ TOC/TOU Protection
- ❑ Guard Protection
- ❑ Process Isolation
- ❑ Enforcement of Least Privilege
- ❑ Hardening
- ❑ General OS Protection

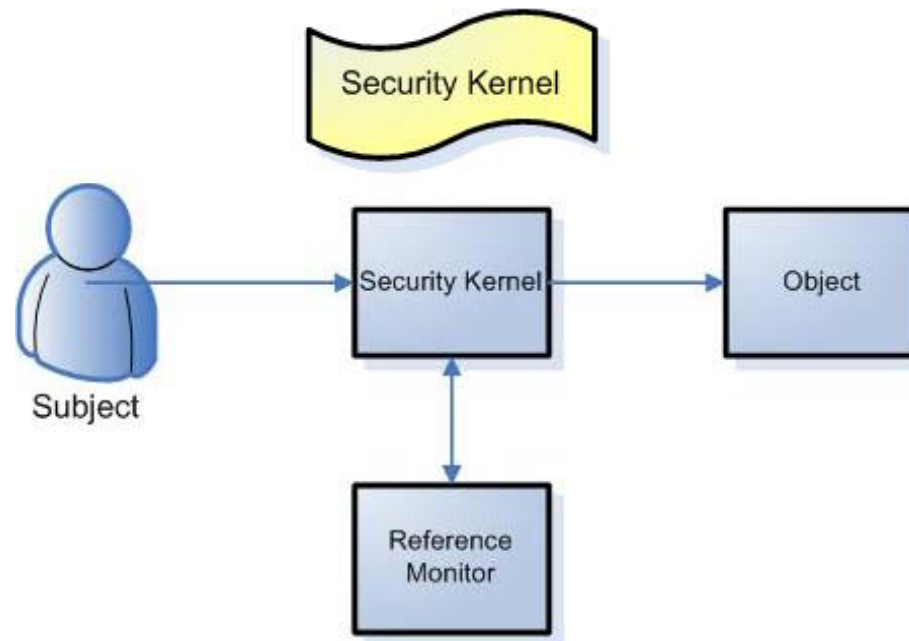
More information from the Trusted Computing Group

<https://www.trustedcomputinggroup.org>



Security Kernel

- Reference Monitor
- Security Kernel



Memory Protection

- ❑ Protect users applications from effecting the operating system
- ❑ Users should not be able to access memory outside what they has been granted access
- ❑ Isolation (hardware and software)
- ❑ Binding subjects and objects are bound together

