

STOP™

Greater security and ruggedness,
with lower development costs

BAE Systems developed a general purpose operating system built from the ground up with security as its core focus. Engineered exclusively in the United States, STOP is a field-proven, proprietary operating system, that is used to build multiple National Cross Domain Strategy Management Office (NCDSMO) listed cross-domain solutions. For more than 40 years, STOP has not required a single critical security patch and currently supports programs and deployments throughout the Department of Defense and the Intelligence Community.

Market ready

STOP is integral to BAE Systems' XTS® Guard cross-domain solution and is available as a stand-alone commercial product to government and commercial customers, including third-party application developers.

Pricing

Trials are free. Flexible options exist for commercial partners; license model includes software development kit license and runtime licenses.

Developer prerequisites

- Linux API
- Database, web, server, web browser, and more applications
- Common libraries and developer tools
- X Windows GUI

Certifications

- Common criteria EAL 4+, FIPS 140-2



Features and benefits

- STOP supports many Linux application programming interface (API) calls, allowing third party developers to port their applications to a higher assurance platform.
- STOP has flexible licensing as well as versions for individual workstations and development environments, allowing customers to minimize total cost of ownership .
- The granular access controls and robust security features of STOP gives users moving data between enclaves the assurance that classified information has been labeled correctly.
- Less than 1/10th the size of the Linux kernel, STOP's smaller attack surface reduces the risk of compromise and minimizes the cost of security certifications.
- Many potential threats, such as stack smashing, are mitigated using all available compiler security options, no execute, and address space layout randomization. Runtime integrity monitoring is used to protect executables, security policies, configuration files, and other valued assets.
- STOP is portable, flexible, and mobile in its deployment options without compromising its security certifications. STOP can be deployed on a wide variety of platforms, beyond traditional server environments, including single board computers, virtual appliances, and embedded devices.
- STOP provides system administrators with flexible security policy options, such as mandatory access control (MAC), role based access control (RBAC) and discretionary access control (DAC).
- Customizable configuration of auditable events ensures accountability. Fine-grained selection criteria allow the collection of all necessary and relevant records.
- STOP encrypts each block of the file system, including a pre-boot environment that ensures encryption at rest and at initial startup.
- When a security policy is changed, STOP responds immediately by applying real-time security configuration updates without requiring a reboot. This feature, unique to STOP, provides greater assurance and convenience for your mission.
- The kernel utilizes a variety of features to guard itself against unauthorized modifications ensuring extensive system integrity checks.
- The STOP Linux-like API makes it easy for Linux-proficient developers and security professionals to require minimal training.

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