

STOP 7™ feature comparison guide

STOP 7™ is a premier secure operating system that provides flexible security policies, a Linux® -compatible application programming interface, and high performance. STOP 7 gives defense, intelligence community, government, and enterprise solution providers and integrators a trustworthy and robust foundation for developing trusted information sharing, guarding, and server applications.

Here's how the STOP 7 OS can make a difference in your solutions

Time-tested security

STOP 7 was created with security as its primary feature. Developers who have worked with the A1 SCOMP Multics™, and the EAL 5+ XTS-400™ operating systems have applied their experience to deliver products that demonstrate repeatable success in legacy TPEP and Common Criteria high-assurance evaluations.

A proven platform for high-assurance, cross domain solutions

Many STOP-based solutions appear on the Unified Cross Domain Management Office's baseline list.

Multiple security policies

Providing flexible ways to secure an organization's sensitive information assets. Available policies include: UNIX® -style discretionary access control, mandatory role-based access control, mandatory Bell-LaPadula policy used to protect confidentiality, and mandatory Biba policy for ensuring integrity.

Immediate revocation

When object or subject access is revoked, further action will fail, even if previous actions succeeded (this also applies to files that are already open).

Dynamic policy modification

Individual elements of the security policy can be changed, with immediate results, while the system is running.

Lockdown configuration

The security policy can be configured so that no further changes can be made.

File-system-based configuration

Configuration items can be changed and viewed, just as any other file.



Learn more about STOP 7 online at:

www.baesystems.com/ProductsServices/bae_prod_csit_xtsstop7.html

Compare these features with other modern solutions to see how your organization can benefit by using STOP 7™ as part of its cybersecurity strategy:

	STOP 6.4 U4™ (XTS-400™)	STOP 7™ (XTS-500™)	Red Hat® Enterprise Linux® 5.1 (SGI)	Solaris® 10 11/08
Product status				
Common Criteria evaluation	EAL 5+ (CCEVS)	Planned (EAL 5)	EAL 4+	EAL 4+
CC protection profile (PP)	LSPR,CAPP	Planned (GPOSPP,LSPP,RBACPP)	LSPR,CAPP,RBACPP	LSPR,CAPP,RBACPP
Scheme	CCEVS	Planned (CCEVS)	CCEVS	CCCECS (CA)
Pedigree	A1 SCOMP,B3 XTS-300™	EAL 5+ XTS-400™	Prior EAL 4+ RHEL	EAL 4+ Solaris® 9, B1 Trusted Solaris®
Source code/license	Proprietary	Proprietary	GPLv2	Proprietary/CDDL
Access control				
OS integration	Static	Closed policy hooks	Linux security modules	Closed policy hooks
Security framework	Proprietary	GFAC	Flask/TE	Proprietary
MLS	Bell-LaPadula	Bell-LaPadula	Bell-LaPadula/mls constraint	Bell-LaPadula
Mandatory integrity	Biba	Biba	Type enforcement	No
Role-based access control	No	Yes	Yes	Yes
Access revocation	Instant	Instant	Delayed	??
Label format	Binary format	Text format	Text format	Binary format
Security features				
Audit	Binary format	Text format	Text format	Binary format (BSM)
Polyinstantiation	Deflection	No	Daemon-based	Zone-based
Encrypted FS	No	Planned	Yes	Yes
Policy-aware networking	MAC	MAC	MAC, IPSec, IPv6	MAC, IPsec, IPv6
Firewall	No	Yes (pf)	Yes (iptables)	Yes
Online updates	No	No	Yes (yum)	Yes
Software support				
ABI format	Linux® -compatible	Linux® -compatible	Linux®	Solaris® (+lxr for Linux® ABI)
GUI desktop	Not part of TSF	Planned (Not part of TSF)	Not part of TSF	Single-/multi-level desktop
Package management	rpm	dpkg-derived	rpm, yum	IPS
Virtualization	Guest	Guest	Guest / host	Guest / host
Hardware support				
Architecture	Intel™, AMD™	Intel™, AMD™	Intel™, AMD™, IA-64, PPC, IBM Z	Intel™, AMD™, IA-64, Various Sparc®
Max CPUs	1	8	64	144
Max RAM	2 GB	32 GB	256 GB	2 TB

References:

www.sun.com/bigadmin/features/hub_articles/mls_trusted_exts.jsp
blogs.sun.com/BVass/resource/SolarisRHELWinComparison.pdf
redhat.com/promo/summit/2008/downloads/pdf/Wednesday_245pm_Paul_moore_Whats_New_Infrastructure.pdf
mentalrootkit.org/?p=16

FOR MORE INFORMATION, CONTACT:

BAE Systems
 8201 Greensboro Drive, Suite 1200
 McLean, VA 22102
 Telephone 703 847 5820
www.baesystems.com

This document gives only a general description of the product(s) or service(s) and, except where expressly provided otherwise, shall not form any part of any contract. From time to time, changes may be made in the products or the conditions of supply.

©2009 BAE Systems