

Sun™ and BlueSpace

Secure messaging for the defense and intelligence communities



Embarrassing information leaks, regulatory non-compliance, and a lack of security are causing organizations to look closely at their methods of securing electronic messages and sensitive data. Within the defense and intelligence communities it is vitally important to adhere to process flow requirements, guarantee the delivery of messages, and provide access controls with auditing. Unfortunately, regular commercial email servers are not designed for deployment scenarios in which content control is an important requirement. Jointly, BlueSpace and Sun provide a secure messaging environment for sensitive information.

Highlights

- Update and modernize custom messaging systems and reduce the cost of ownership
- Provide users with a single inbox for content at multiple security levels
- Enforce rigorous access-rights policies for better security
- Improve the end user experience by reducing complexity with a multilevel security (MLS) interface
- Implement multilevel collaboration for defense and intelligence communities
- Provide centralized control for secure operations using Sun identity management

Mission Critical Messaging

The BlueSpace TransMail solution is a multilevel messaging and mail platform designed for mission critical, confidential communications. As the need for transmission and collaboration of sensitive information increases, BlueSpace's TransMail solution can help with flexible and dynamic content delivery. Through a relational architecture, TransMail helps ensure greater control, auditing, and confidentiality for an organization's mail and messaging requirements.

By applying a unique digital fingerprint to every piece of message content and recording user actions in a central audit log, TransMail guarantees authenticity over a message's lifecycle. When a user sends a TransMail, they are actually creating an auditable transaction. Auditing, access rights, retention, and other aspects of content control are maintained regardless of the number of times a message is replied to or forwarded. Transparent to the end user, TransMail eliminates duplicate messages by creating a single link to the original message, enabling companies to enforce strict enterprise policies and access rights that are substantiated by a complete audit log of events.

TransMail is a Java™ 2 Platform, Enterprise Edition (J2EE™ platform) multitiered application, service-oriented architecture (SOA) compliant, and stores data within an industry standard database—providing a rich environment for the delivery of content relevant statistics, metrics, and usage patterns. TransMail provides a high level of control for handling message content and attachments within a familiar email environment. A rich user interface that can be integrated with existing enterprise email or accessed via a Web client enables users to work with TransMail just like normal email.

Secure Multilevel Messaging

BlueSpace's TransMail Trusted Edition (TE) is specifically designed for the defense and intelligence communities—providing a true multilevel secure (MLS) mail platform for secure messaging and information distribution across agencies. The secure messaging platform, along with attribute-based access controls, provides defense and intelligence communities with the ability to increase collaboration and improve mission effectiveness in counter-terrorism. Supporting the transmission and handling of messages across different classification levels and intelligence communities, TransMail TE provides a single inbox for multiple mail and messaging accounts on different networks.

BlueSpace TransMail running on the Solaris™ 10 Operating System (Solaris OS) with Solaris Trusted Extensions provides a modern custom messaging platform for the defense and intelligence communities, with the option of a multi-level end user interface on a Sun Ray™ desktop with TransMail Trusted Edition. With TransMail, defense and intelligence organizations can modernize their legacy messaging systems or implement new collaborative messaging systems for secure information sharing.

The BlueSpace and Sun solution is built using SOA and multitier architecture best practices to overcome the cross-agency collaboration and classification level deficiencies of outdated X.400 server technology and legacy transactional messaging systems. Defense and intelligence organizations can improve their mission effectiveness with a modern messaging solution and improved data integration, attribute based content control policies, and guaranteed message delivery.

Delivering a secure environment

BlueSpace solutions run on Solaris OS with the option to integrate Sun Ray clients to take advantage of a secure, stateless network computing platform for communications. Sun Ray clients deliver an extremely secure desktop environment without the maintenance and operational costs of desktop computers. Containing no resident operating system or applications, with the ability to restrict use of removable media, the Sun Ray client is an exceptional choice to provide access to server applications that maintain secure information.

Solaris Trusted Extensions helps solve the problem of controlling access to sensitive data by implementing labels for access control to data based on security levels. Because Solaris Trusted Extensions is an extension to the standard Solaris kernel, it is quick to deploy and does not require requalification of applications. Solaris Trusted Extension's mandatory access control policy (MAC) adds sensitivity labels to all aspects of the Solaris OS including file, print, networking, window management, and device access.

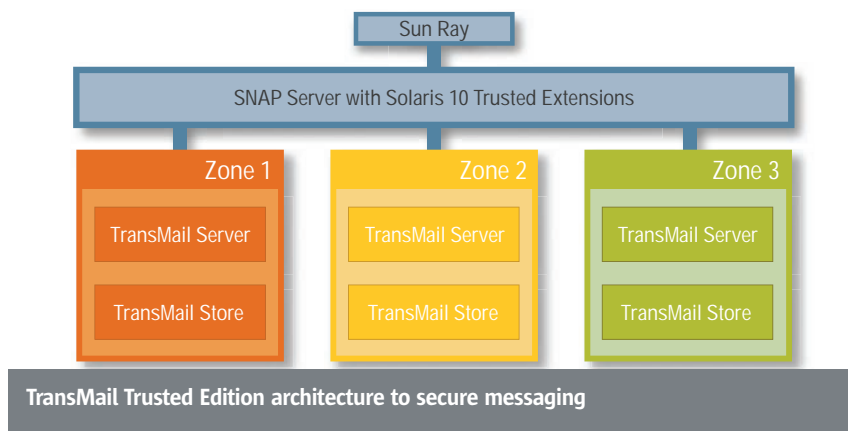
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Labeled objects have an explicit relationship with each other and can only see other objects that have this secured relationship defined. Working within the label framework of Solaris Trusted Extensions, BlueSpace is able to aggregate messages from multiple security levels into a single inbox while still maintaining appropriate authorizations based on the policies defined. Taking advantage of the Sun Ray desktop and Solaris Trusted Extensions, users can efficiently view data at multiple classification levels on a single desktop, with the security and separation of data strictly enforced. Such options as cut-n-paste, copy, or drag-n-drop are only allowed across windows that have secure relationships.

Sun and BlueSpace—a trusted solution

The BlueSpace and Sun solution leverages Sun's unique strengths in the defense and intelligence communities, allows improved process integration, access control and oversight for transactional messaging, while aggregating messages across multiple classification levels into a single interface for the end users. Unique in the market, Solaris Trusted Extensions enable BlueSpace to take advantage of security labels across the Solaris platform—providing a robust multilevel desktop for secure messaging and efficient collaboration.



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