Cross Domain Security

High Speed Guard/SP

Special purpose (SP) and automated, high-performance
data transfer for any environment

Providing cross-domain transfers to tactical and mobile forces while meeting
size, weight, power, and cooling system requirements.

Key Benefits

› Maximizes security while minimizing footprint

› Meets requirements for size, weight, power, and cooling (SWaP-C)

› Provides industry proven capabilities through Commercial-Off-The-Shelf (COTS) software

› Enables real-time video streaming while providing unparalleled control and auditing

› Supports multiple application protocols and adaptability for custom interfaces

› Provides highly customizable data validation rules for maximum flexibility

› Supports complex web services

› Includes Configuration Builder tool for designated missions

› Automates transfers with no human intervention

Cross-domain transfer for tactical in-theater information sharing

Data sharing is essential to the rapid, accurate, and precise execution of customers' missions. With the persistent threat of cyber-attack, penetration, and data loss, protecting data integrity during the sharing process is of the utmost importance. Nowhere is data protection more important than in tactical, mobile missions involving ongoing data collection where space is limited and the risk of data integrity loss and availability is greatest; such as aircraft (manned and unmanned), ships, and armored vehicles.

A guard software solution enables data to pass securely from one system or network to another. Guards are used in situations where the data being passed, or the data destination is sensitive or classified. Guards enable highly complex, bi-directional or multi-directional, automated data transfer between multiple domains or systems.

High Speed Guard/SP

Based on customer requirements for a small, lightweight guard requiring low-power, high-throughput, and low-latency capabilities and that operates outside of traditional data centers, Forcepoint developed the High Speed Guard/SP solution. High Speed Guard/SP supports robust security protocols and is adaptable to specific mission needs where strict size, weight, power, and cooling (SWaP-C) specifications are required.

In many cases, mobile forces' missions are focused on data collection from a variety of sources. Once that data is collected it must be moved and shared between the appropriate recipients—human or machine. High Speed Guard/SP is a software solution that can operate on a single board computer (SBC), Advanced Telecommunications Computing Architecture (ATCA) processor board, or other ruggedized systems.

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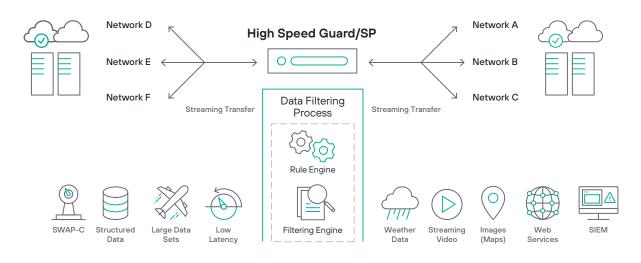

Figure 1: Forcepoint High Speed Guard Architecture is designed for rugged field conditions.

High Speed Guard/SP was developed to meet the secure data transfer needs of customers with SWaP-C requirements—from highly complex flying data centers with heavy redundancy requirements to a single system operating in a Forward Operating Base (FOB). Customers who need small, lightweight guards that require low-power usage and operate outside of traditional data centers are excellent candidates for High Speed Guard/SP. Specific needs can vary from customer to customer and mission to mission. Solutions at the tactical edge, for example, must be tamper-resistant in the event that the device or vehicle is lost, stolen, or captured. Some missions require bi-directional transfer while others require one-way only. High Speed Guard/SP was designed with the flexibility to support a wide range of different customer bi-directional environments.

The need for High Speed Guard/SP
High Speed Guard/SP can work in conjunction with secure data stores like those found in some aerial vehicles. This provides the ability to perform classified missions while allowing the hardware to be deemed unclassified when the power is off. Additionally, data flow policy can be selected based on the type of mission to be performed.

For ground forces operating in an FOB, High Speed Guard/SP can be mounted in a transit case for collection and viewing of data from both U.S. and coalition networks.

Design and deployment
High Speed Guard/SP leverages the data handling capabilities and security design of Forcepoint's successful and widely deployed High Speed Guard. High Speed Guard, approved to move data between the nation's most sensitive networks for Top Secret and Below Interoperability (TSABI) and Secret and Below Interoperability (SABI), has a rich history within the U.S. Department of Defense and intelligence community for its deep security, rich functionality, fastest available transfer rates, and flexibility.

High Speed Guard/SP combines proprietary and Commercial-Off-The-Shelf (COTS) software running the Red Hat® Enterprise Linux® operating system with SELinux® on a variety of x86, 64-bit hardware platforms. This allows customers the most flexibility of any small form factor guard solution.

Mission-specific configurations

High Speed Guard/SP is loaded with configurations specific to the type of mission being executed. Each configuration is built using the High Speed Guard/SP Configuration Builder software tool set. This tool set is typically located in the customer's factory development environment. Only approved configurations can be loaded on High Speed Guard/SP.

High Speed Guard/SP administration is simplified with predefined mission configurations that are applied as needed. Operation of High Speed Guard/SP is designed to be autonomous without human interaction or specially trained users. At power-on, High Speed Guard/SP loads and becomes operational. All that is needed at mission completion is to power off High Speed Guard/SP. While active, logging is done to either a remote customer Audit Review System or local disk to maintain a post-mission audit trail.

High Speed Guard/SP enables the secure transfer of virtually any type of data, bi-directionally across any number of classified and unclassified networks—critical to mission success. A single High Speed Guard/SP can support up to 12 different security levels.

Summary

High Speed Guard/SP delivers secure data transfer, meets SWaP-C requirements, and provides the flexibility and security to match the mission. With the addition of High Speed Guard/SP, Forcepoint has broadened its premier guard technology and expertise to more efficiently and effectively serve customers with in-theater, cross-domain needs.

Forcepoint offers an experienced Professional Services team to guide customers through the technical implementation and C&A processes. Forcepoint's cross-domain products have a proven track record of proactively protecting government and commercial organizations against compromise, while fostering the secure access and transfer of information.

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