

## Raytheon High-Speed Guard



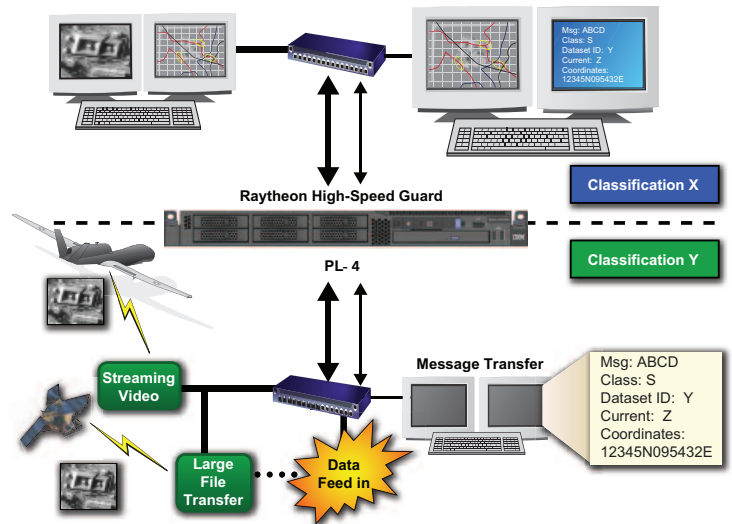
Meeting today's  
secure transfer  
needs at tomorrow's  
transfer rates.

### Key Features and Benefits

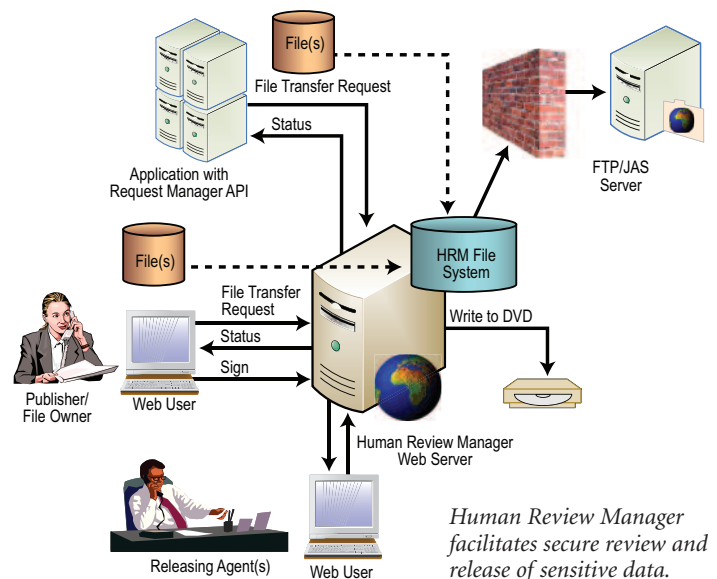
- Listed on the Unified Cross Domain Management Office (UCDMO) Baseline list of trusted cross-domain technologies
  - Sustains industry's fastest rates of more than 9Gb/s on a 2 CPU platform
  - Offers various configurations for ease of integration for all modes, no matter the sensitivity or size of the payload
  - Provides flexible and adaptable data validation rules
  - Supports multiple application protocols
  - Customer configurable to be easily managed and maintained
  - Includes reliable human review using digital signatures
  - Certification history under DCID 6/3 up to PL4
  - More than 190 installations
- The U.S. government is focused on protecting and improving the sharing of information, yet it is increasingly hard to distribute information between varied security classification environments. Cross-domain solutions continue to provide effective interoperability and serve as a link to ensure that data maintains sensitivity levels throughout the information sharing and transmission processes, but these solutions are often plagued with high administrative costs and bandwidth constraints.
- Raytheon solves these problems with High-Speed Guard, a solution that bridges the security gap between different domains, resulting in a faster, efficient and cost-effective cross-domain solution – even for the most challenging data sharing environments. High-Speed Guard provides a controlled network interface that reviews and releases sensitive data, while still maintaining transfer rates above other options. Unlike other solutions, High-Speed Guard supports large computer systems with comparatively lower administrative costs, making it the best choice for large-scale deployments. With more than 190 guards delivered, Raytheon's 80 years of experience in supporting defense and civilian agencies makes us a qualified, trusted partner.
- **Certification History** — High-Speed Guard received its first certification and accreditation in 1998. Since then, it has been fielded to the National Geospatial - Intelligence Agency, Air Force and several other agencies that require critical infrastructures that guard America's most classified information. In 2002, High-Speed Guard became certified against Director of Central Intelligence Directive 6/3, Protection Level 4 - *Integrity and Availability High*, and *Appendix E* requirements. In 2010, High-Speed Guard was added to the UCDMO Baseline.
  - **High-Speed Data Rates** — High-Speed Guard delivers data transactions through simultaneous, bi-directional information transfers using separate transmission sockets. This allows it to sustain rates of more than 9Gb/s on two CPU commodity commercial off-the-shelf (COTS) servers running Red Hat Enterprise Linux 5 with a Strict SELinux policy.
  - **Data Validation Rules** — Raytheon provides flexible and adaptable validation rules, eliminating hard-coded rules. This allows authorized personnel the ability to customize rule sets so that they can securely approve updates. In addition, High-Speed Guard offers common data validation rules and functions allowing for simpler rule creation, saving time and money in implementation.
  - **Interface Options** — With a wide array of interface capabilities, the High-Speed Guard easily integrates into many systems. The focus on flexibility and compatibility allows customers to focus on their mission, rather than laboring with their cross-domain solution.

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- SOA Web Services** — High-Speed Guard includes built-in support for Web services utilizing HTTP. In addition to providing complete inspection of all HTTP headers, the XML parsing capabilities provide full validation support for SOAP based services. Complete support is also provided for SOAP attachments, enabling product retrieval services with multi-gigabyte payloads, while enforcing complete data inspection routines.
- Streaming Video** — High-Speed Guard enables real-time video streaming while providing unparalleled control and auditing of video streams through its MPEG2 parsing capability. This validates key metadata fields, including classification and release caveats. The High-Speed Guard provides the same validation capability for video clip files.
- Full XML Parsing Support** — High-Speed Guard supports full XML parsing utilizing the Xerces XML parser. Using a full parser allows for name space and nested schema validation. After Xerces parsing successfully completes, the High-Speed Guard's validation rules are invoked to further examine data fields as necessary.
- Raytheon "Generic" Proxy** — Raytheon has enabled this technology with a "generic" proxy rule capability that facilitates connections with systems using other protocols. This capability allows users to create rules that meet any standard TCP/IP or UDP/IP connection.
- Automated Secure Transfer (AST)** — High-Speed Guard supports file "drop box" transfers utilizing Secure Shell's Secure Copy or FTP. AST validates files using the same rule engine as other High-Speed Guard services, a COTS virus scanner, digital signatures, or any combination thereof. Interaction with remote systems is highly customizable, including the mechanism used to indicate files are ready for transfer. Failed files can automatically be re-directed to a HRM. AST supports a "one-to-many" capability for copying files to multiple destinations in a single transaction.
- Human Review Manager (HRM)** — HRM is a web-based tool that provides release and review of non-structured data, which requires human interface for classification and release decisions. It can stand alone or it can be used in conjunction with High-Speed Guard to make use of the digitally signed data types for data release. As part of the release of the file(s), the HRM supports a complete workflow driven process that can be easily tailored to support one or more different release workflows via a single HRM.
- Digital Signature Validation** — Raytheon High-Speed Guard uses digital signature verification to provide additional support when releasing data through the guard. This is particularly important for systems that use human information analysis. Digital signatures can provide a confirmation of the data review by authorized reviewers.



Raytheon High-Speed Guard allows multiple data types to flow bi-directionally to meet users' cross-domain requirements.



Human Review Manager facilitates secure review and release of sensitive data.

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