General Dynamics' TNE solutions rely on an enhanced OS provided by our PitBull product. TNE enables popular applications to secure information sharing.

Benefits include:
- Advanced OS security features for files, processes, administration, and networks.
- Segregates data without additional hardware.
- Information sharing across multiple networks on one desktop.
Business today is all about collaboration. Combining resources and knowledge can be the key to success. But sharing information increases the risk that sensitive data could fall into the wrong hands.

Until now, the only way to securely share information was by creating separate, isolated, limited access networks. General Dynamics’ TNE solutions solve the information sharing problem.

TNE technologies deliver ironclad data segregation to combine multiple networks onto one desktop.
Secure computing starts with a secure operating system. PitBull Foundation enhances the security of your operating system for trusted functionality and high assurance.

**PitBull Foundation**
- Eliminates UNIX® superuser vulnerabilities
- Significantly reduces the damage caused by the exploitation of bugs in commercial software
- Installs as an upgrade to the operating system
- Isolates applications, network interfaces, data, and users
- Allows for the development of flexible, ironclad security architectures
- Exceeds LSPP (EAL4+) Common Criteria requirements
Available for Red Hat® Enterprise Linux 6®

- MAC (mandatory access control) based on the Bell-LaPadula Model (BLP)
- Sensitivity labels enforced at the kernel level
- User and process clearances
- MIC (mandatory integrity control) based on Biba model integrity labels
- Least privilege (superuser replacement)
- Roles/authorizations
- MLS networking and labeled packets
- Polyinstantiated network ports
- Two-man/four-eye login authentication
- Dual operational/configuration system modes of operation
- System integrity checks and integrity databases
- Disambiguated security mechanism for protecting critical TCB (trusted computing base) files and services
- Labeled printing
- Labeled printing with MAC controls
- Enhanced audit records
- Disambiguated security mechanism for protecting audit records
Just like complete computing involves more than just your operating system, complete information security means securing all of your utilities, tools, and scripts. Building on PitBull Foundation, PitBull Foundation Suite allows commercial and custom software to be easily configured into trusted, sophisticated network architectures.

**PitBull Foundation Suite**

- Streamlines architectures, improves performance, and reduces costs and manpower requirements
- Allows users to securely access back-end applications via the Internet
- Modular approach allows software to be tailored to a specific customer’s environment
- Completely compatible with all applications supported by Red Hat® Enterprise Linux®
Available for Red Hat Enterprise Linux 6

**PitBull Foundation Desktop**
Creates a multilevel X Window system with labeled windows, secure cut-and-paste, and role based administrative tools.

**Secure Communications Enforcer**
Tightly integrated trusted programs that passes packets between different security partitions. Examines each incoming request and, if validated, directs it to the appropriate service.

**Security Gate**
Trusted software component that mediates limited, secure communication between applications or utilities in separate compartments, without allowing direct access to each other’s files.

**Secure CGI Module**
Feature that isolates the CGI functionality of a web server from the web server itself. A security flaw in a CGI script can’t be used to modify the server, the HTML pages, or the CGI files.

**Secure Authentication Module**
Places the authentication responsibilities of the Web server into its own compartment in order to restrict access to the sensitive information typically used in the user authentication process.

**Secure Program Launcher**
Allows users without powerful authorizations to execute programs that operate at a high level of security, but only in a limited predefined manner.

PitBull as a stand-alone product is subject to the export jurisdiction of the U.S. Department of Commerce under the Export Administration Regulations (EAR)
TNE provides an intuitive Microsoft® Windows® experience for enterprises needing a trusted information broker to let them share sensitive information between select users and locations. It is flexible and scalable enough to allow rapid inclusion of new partners on the fly without compromising the security or integrity of the data.

TNE
- Segregates data without additional hardware
- Simplifies regulatory compliance
- Allows access to only authorized information
- Facilitates information sharing across multiple networks on one desktop
Trusted Network Environment (TNE)

• Data segregation support for many commonly used programs such as Microsoft Office and Adobe Acrobat

• The ability to cut/copy/paste information between dissimilar sources of information for data fusion capabilities in a fully traceable environment

• Data segregation web and database services to reduce hardware/software costs for external users

• Data segregation email client with “one window” access to all emails

• Single workstation access to different secure data sources

• Data segregation information warehouse in a single database

• Application security banner indicates data control label on every window launched

• Extensive secure network protocols: HTTPS, multilevel SAMBA/SSH/SSL/NFS

• Interoperability and integration support available for third party applications such as Google Earth™

• Content filtering and checking, antivirus, integrity checking, logging services, and workflow management

TNE software is currently subject to the export jurisdiction of the U.S. Department of State under the International Traffic in Arms Regulations (ITAR). PitBull as a stand-alone product is subject to the export jurisdiction of the U.S. Department of Commerce under the Export Administration Regulations (EAR).
Secure enterprise computing and information sharing

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