Forts' Solution - Ticonderoga

Security for sensitive and critical data

ENTERPRISE SECURITY

Complete access and security of data across the complete corporate landscape including legacy systems.

MULTI LAYER ENCRYPTION

By utilizing multi layers of military grade encryption the solution allows complete compartmentalization at different levels. Interlaced encryption at the core ensures the highest level of protection.

PLANNING

A specialist planning team will work with the customer to understand their needs and then design the correct solution and ensure that it can be fully implemented withing the customers operating environment

- Core switch for Forts' solutions but contains processing power to ensure bandwidth utilization.
- Hardened device with military grade encryption, Multi-level Authentication and Geolocation security
- Secure encrypted connection to Knox servers, Delaware switch and remote machines

Acts as a core switch for larger installations to allow multiple Delaware Units to connect to the Knox units. These hardened units hold a mirror of the user and PC rights database to improve access performance. The units have AI controlled pathing and rerouting functions with 16 GBytes cache per channel.

Has twenty-four, 32 Gigabit upstream Fibre connections (3200 MB/s payload each), and forty-eight, 16 Gigabit downstream fibre connections (1,600 MB/s payload each).

The Ticonderoga is central to the connection infrastructure on larger Forts' installations and contains cached copies of the Policy management rules, geolocation mapping and device status mapping.

By offloading much of the repetitive lookups and encryption workload to the Ticonderoga this ensures that system growth and reallocation does not have an impact on overall system performance thus ensuring worry free scaling.

SysEncrypt
Information Security for the Enterprise

Connectivity

Knox Units

The Knox is at the core of the Fort Solution with from 24 PB up to 32 EB of usable mirrored storage, hardened servers running the user, device and location access rights databases as well as the key generation and management functions. Internal to each Knox these servers are fully redundant and utilize AI to manage data storage between cache, SSD and physical hard discs for storage utilization.

Delaware units

The Delaware unit is a fibre channel switch used to connect between the user workstation or PC and direct to the Knox units on smaller installations or to the Ticonderoga units on larger installations.

Connection to the Knox or Ticonderoga units is by four fibre connections that allow for redundancy and load sharing.
The Delaware unit handles the initial connection and secure setup to the PC when an encrypted link is established.

Sumter Agent

The agent runs on the PC or workstation being used to access the data.
Two factor authentication is needed to start the agent.

Once started the agent first shuts down other applications, disables print and screen print option, flushes memory and sets up a single, dedicated tunnel to one of the preconfigured Edge Units. No other network connection is able to be made. All access to local, network and removable discs is disabled at this point.

The agent then authenticates the user and sets up rights and rules depending on the PC or workstation (determined by IP address and ethernet MAC address). Read access may be granted to local discs by the rights given to specific users.
Only those applications that are authorized to that user /PC configuration can then be started.

IMPLEMANTATION

Our Implementation teams located across North and South America, Europe and Australasia have all the knowledge to ensure the initial implementation of your solution goes without problems.

ONGOING SUPPORT

Each customer has their own dedicated support team who work on site to ensure that securing the Enterprise.remains the focus of the mission. All changes and reconfiguration needs are covered by the support package.

For more information on any of our products or services please visit us on the Web at:
www.sysencrypt.com

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