

# Forts' Solution - Knox

## Security for sensitive and critical data

### ENTERPRISE SECURITY

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

### SCALABLE STORAGE

The Knox units start with a minimum 24PB of usable storage. Each Knox can scale up to 32EB of storage.

### AGILE STORAGE

With a mix of Solid State and conventional rotating disc storage, the location of data is controlled by the system using a mixture of defined rules and AI.

### PLANNING

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



- Core unit for the Forts Solution contains the storage, control and key management.
- Scalable Agile storage from 24PB using mix of Solid State and Hard Disc Drives to maximizes performance.
- High Availability using mirrored servers and containerized storage.

Ensures enforcement of data security rules right across the complete corporate landscape in a secure vault of high-capacity storage.

For information that is so vital it cannot be allowed to be removed from the enterprise security environment, but must be easily accessible to authorized user, Forts ensures all policies are automatically enforced without onerous user requirements.

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.

## IMPLEMENTATION

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 will 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](http://www.sysencrypt.com)

# Connectivity

- **Delaware units**

Act as edge switches to handle connections from the attached PCs / workstations to the Knox units. Connection to the Knox is by four fibre connections that allow for redundancy and load sharing. On smaller installations the Delaware will connect directly to the Knox units whilst on larger ones they will connect via the Ticonderoga switch.

Has 4, 16 Gigabit upstream fibre connectors (1,600 MB/se payload each) and 12 1 Gbit Ethernet downstream connections (125MB/s payload each)

- **Ticonderoga units**

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. Each unit has 24, 32 Gigabit upstream Fibre connections (3200 MB/s payload each), and 48, 16 Gigabit downstream fibre connections (1,600 MB/s payload each).

- **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 the necessary rights and rules for that user 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.