Forts' Solution – Nonstop Operation

Security for sensitive and critical data

ENTERPRISE SECURITY

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

NON-STOP OPERATION

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

AGILE STORAGE

Reconfiguration and Expansion of storage completed on the fly without interrupting operations.

FIRMWARE UPDATES ON THE FLY

Any required firmware updates and enhancements for interfaces, adapters and controllers are completed on the fly and automatically controlled to do rolling updates transparently.

- Ability to change critical parts without the need to stop operations.

- Multiple power supplies to protect against single supplier failures.

- Five 9s operation based on a single site without replication

- Uninterruptable Power Supplies to protect against site wide power losses.

Knox systems are designed with all major components to be replaced without the need to power down the server.

With multiple redundant power supplies any power supply can be replaced in a simple controlled operation whilst still maintaining redundancy in case of another power supply failure.
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All Storage devices are hot swappable and the redundancy of devices ensures that any replaced storage device is rapidly rebuilt. All storage devices are covered by a N +3 redundancy on each storage array to cover all eventualities.

Any network interface can be replaced whilst maintaining full operational status due to the automatic routing failover built into the operation system.

Should there be a need to replace or upgrade any of the system memory, this can be done without the need to interrupt the server operation beyond a very short period of slower operation whilst the memory is automatically reconfigured to reflect the change.

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Connectivity

- **Keeping the lights on**
  All Knox systems have built in Uninterruptable Power Supplies in every rack
  and these are kept charged from multiple power line supplies. During the
  design stage our team will work with you to ensure that you have redundant
  supplies to the Knox units to help minimize the chance of external problems
  preventing access to critical data.
  When there is a concern for the reliability of mains power, the team will work
  with you on the design and implementation of your own backup generators to
  keep the lights on.

- **On the Fly Updates**
  All major components in the Knox systems are hot swappable. This includes the
  Solid State and Magnetic Disk drives, Network interface modules, Storage
  control modules and system RAM.   All operations can continue to run
  transparently to the user when these parts are being upgraded or replaced.
  Non-Disruptive Upgrade (NDU) of firmware and patches is available across
  Knox systems, Delaware and Ticonderoga switches and CamConnect devices
  to insure there areno operational interruptions.

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