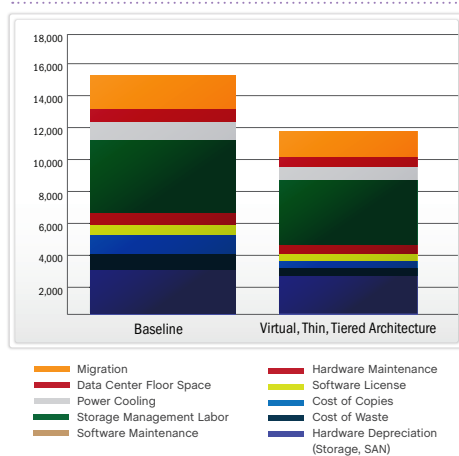




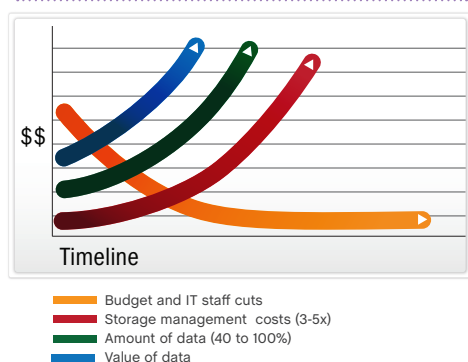
## Features

- **Risk Analysis:** Analyze your current storage environment's risk through a comparison to 11 areas of industry best practices.
- **Data Mapping:** Visually map the data flow from the server to the storage down to the LUN level.
- **Utilization Study:** Identify available and allocated storage and switch utilization, as well as orphaned storage.

Unit Cost TCO/TB/YR 125TB



An IT Executive's Challenge



# Data Management Solution Enablement Audit

The GTSI Enablement Audit allows IT staff to realize the full potential of their storage infrastructure by peering into their own storage data and breaking this information into key areas of interest. Focusing on utilization, connectivity, and risk in the storage network, customers can attain a higher level of availability, increased cost savings, and the ability to proactively grow and maintain their environments.

The Enablement Audit is an agent-less way of collecting data from the components in the data center and correlating the information into a comprehensible analysis focused on risk aversion, data flow mapping, and utilization. In a matter of a few days, the Enablement Audit can help IT organizations assess their current state and then develop an action plan to address potential problem areas.

## Deliverables

### Findings Document

The Findings Document provides an overview of the storage environment, detailing the risk identified, how storage is being utilized, and observed areas of concern based on years of engineering and operational experience.

### Enablement Audit

The Enablement Audit provides an in-depth analysis of the environment across three main categories: risk, mapping, and utilization. It is presented in a dashboard format that allows the user to drill down into the issues so that appropriate action can be taken.



### Risk Assessment

This discipline does an analysis of the current SAN environment and compares that to the industry best practices or the environment's specific SAN standards if established. It uses a point system to assess risk and allows for drill down into the issues for review.

- Ensure standards for equipment and configurations can be adhered to so no issues occur from bad configurations.
- This data can be used to audit the environment to determine where improper configurations exist that may impact performance or availability in the future.
- Proactive SAN remediation – most SAN related problems are due to improper configurations of servers and/or storage and how they are attached to the SAN. These can be monitored and trended over time to give a historic view of increased or decreased risk in the environment.

## Data Mapping

Data Mapping gives a path mapping from the host, through the SAN, down to the LUN on the storage frame. This path mapping includes switch port locations of the host HBA and Storage ports, their associated WWNs and LUN IDs, and capacity of the LUNs down the associated HBAs.

- Having the ability to map all infrastructure components gives an accurate inventory of assets, how they are attached and configured, and with which applications they are associated.
- Having infrastructure data associations allows IT to effectively place a value on the data. This allows for a tiered storage implementation with pre-defined data level protections and performance parameters dictating the infrastructure required.
- Data Mapping information enables operations staff to better visualize the storage network. Having this data readily available increases the staff's efficiency in not only day-to-day operations, but in troubleshooting scenarios as well.

## Storage Utilization

Storage Utilization gives a detailed breakdown of host, switch, and storage allocations. Utilization views analyze the available, allocated, and used space. Switch port and Storage Utilization data is lightweight and agent-less.

- Having the relevant usage data available enables a tracking mechanism that provides for accounting or chargeback models to accurately support investment requirements.
- Asset recapture – re-deploy space that has been allocated and not used to another application instead of acquiring additional space to be utilized at the same rate.
- The data provides a level of confidence in management that the money spent on infrastructure is being properly deployed.

## The GTSI Process of Engagement

The GTSI Enablement Audit involves a 5-step process of engagement:

### Schedule Collection

Customers are engaged and presented with the requirements. GTSI will qualify the requirements and a time is schedule to collect data.

### Data Collection

Consultants will conduct the data collection from the storage components and management stations. Non-Root access needed.

### Data Correlation

Customer data is correlated breaking down information into the areas of analysis.

### Findings Published

Correlated data is documented in HTML format

### Findings Presented

Consultants will present the findings and areas of concern will be highlighted and reviewed



## About GTSI

GTSI Corp. is the first information technology solutions provider offering a Technology Lifecycle Management (TLM) approach to IT infrastructure solutions delivered through industry-leading professional and financial services. GTSI employs a proactive, strategic methodology that streamlines technology lifecycle management, from initial assessment to acquisition, implementation, refresh, and disposal. TLM allows government agencies to implement solutions of national and local significance quickly and cost-effectively. GTSI's certified engineers and project managers leverage strategic partnerships with technology innovators. These experts use proven, repeatable processes to design, deploy, manage, and support simple to complex solutions, to meet governments' current and future requirements and business objectives. GTSI is headquartered in Northern Virginia, outside of Washington, D.C.

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