

InTTrust Integrated Enterprise Backup Solution

Highlights

InTTrust provides clients with a data protection solution in a phased approach:

- Based on an optional data protection assessment and your specific RPO and RTO requirements, we determine the recommended hardware [e.g. number of tape drives, tape library capacity, disk storage capacity, network adapters (HBAs and/or NICs), etc.] and software.
- Our Data Protection, Database, Storage Area Network (SAN) and High Availability experts install and configure the data protection solution.
- The last phase is the actual system testing and knowledge transfer to the client so they are able to maintain the solution.

InTTrust provides total solutions to help you optimize your technology, improve efficiency, and minimize downtime with a tailored archiving, backup and recovery solution engineered to provide increased flexibility, scalability, and manageability.

InTTrust is committed to lay the path for success by utilizing best practices and proven methodologies - with emphasis on minimizing disruption to workflow and IT infrastructure. This includes determining archiving requirements with appropriate backup windows and opportunities to improve recovery time to ensure that service level agreements are met.

InTTrust consultants can implement your total Backup, Recovery and Archiving solution - hardware and software - so that you can quickly capture the value of the solution. This includes the installation and configuration of archiving, as well as backup and recovery software.

InTTrust also ensures that your systems administrators can efficiently administer the solution as InTTrust' consultants provide knowledge transfer.

Total Backup and Recovery Solutions Include:

- Installation and configuration of powerful archiving, backup and recovery software.
- Determine the infrastructure that addresses current needs and is capable of scaling to meet future sizing requirements
- A recommendations report with propositions to improve backup and recovery windows, file share capacity, file share management, backup resources, media, backup and archiving management.
- Best practice is communicated.

The **Integrated Enterprise Backup Solution** offered by InTTrust is a backup and recovery environment for the enterprise based on IBM TSM and IBM Tivoli Fastback. The solution comprises the analysis, design, implementation and support of an integrated environment that covers the backup and recovery needs of medium and large customers. This solution has already been applied successfully to a number of customers. It provides a user friendly UI, utilizes both physical and virtual tape libraries.

The **Integrated Enterprise Backup Solution** is insurance for your data. If a disk drive fails, TSM restores lost data. If you accidentally delete a file, TSM will bring it back. If your entire operation is hit by a disaster, TSM keeps your data safe. With Tivoli Storage Manager, your data is insured by copying active online data to offline and offsite storage, even from 24x7 applications. But that's not all. If your data growth exceeds your storage capacity, TSM can effectively extend your capacity. TSM moves inactive data from online storage to less

expensive offline or nearline storage. TSM automates and centralizes all these functions, making reports and providing alerts for unusual events. TSM insures the data on any number of computers running any of more than a dozen different operating systems from laptops to mainframes. In short, TSM is the complete data protection application.

IBM Tivoli Storage Manager

Managing your company data can be a complex and constantly changing task. We all know that the sheer volume of data is increasing exponentially and the storage infrastructures becoming more complex. Your company needs a comprehensive storage management solution that provides and exceeds the protection, flexibility and performance your company requires – it is no wonder that IBM Tivoli Storage Manager is a market leader in enterprise storage management. IBM Tivoli Storage Manager is a suite of products that delivers a broad range of storage management capabilities. These capabilities include backup, archive, space management, database, application and ERP protection, bare machine recovery and disaster recovery planning.

TSM for Enterprise Backup and Recovery

With Tivoli Storage Manager your corporate data is protected against unfortunate occurrences resulting in data loss. Tivoli Storage Manager provides automated, centralised and policy based backup of virtually all operating systems and applications. The flexibility of TSM allows InTTrust to tailor a backup and recovery solution to your company's specific needs (InTTrust Integrated Enterprise Backup Solution). These include; how long you retain your data, where you data is stored, backup and restore performance characteristics, when client schedules are executed, type of backup. The list is as extensive as your company's unique requirements and

TSM is designed to cater for your needs.

Previously backup of company data may have been done on file servers or application basis – individual file servers or applications required the use of locally attached tape devices for data backup. With TSM a great deal of the manual intervention required to initiate the processes to secure your company data is removed. Once the definition of the schedules is complete the associated clients will send their data via the LAN or SAN to the storage available to the TSM server, on the day you specify at that time. The inherent flexibility of TSM means the calendar based schedules can be tailored to your needs be it; a daily schedule to initiate an incremental backup of a file server and its operating system or a schedule to be run on the last Friday of the month to take a complete backup of a key database or application.

In many cases your business critical applications may have required downtime during backup processing to obtain consistency. With the use of Tivoli Storage Manager, applications and databases have the ability to remain “HOT” while the data backup is processed and the use of Cyclic Redundancy Checking ensures the integrity of your data from client to server. Advanced disk subsystems such as the IBM DSXXXX and Nseries range can be integrated with TSM to facilitate the backup of SAN based LUNS using the disk subsystems native snapshot features. With TSM your company can continue operating round the clock without the interruption of data backups.

With such a large array of supported hardware there is no longer a requirement to manually load a tape each time a backup is initiated, TSM can utilise disk and automated tape based storage. Different performance characteristics are associated with different hardware and InTTrust can tailor your TSM solution to provide the best backup and restore performance to fit within your objectives. TSM is the only Storage Management solution that can migrate data from one storage pools to another due to its relational database tracking data. This allows your business to retain current and active data on faster more expensive

disk (where numerous small file data restores gain significant performance) for a defined period before being migrated onto tape for longer term storage.

Tivoli Storage Manager for Disaster Recovery

In the event of a disaster you want a storage solution capable of recovering your corporate server infrastructure as quickly as possible. Tivoli Storage Manager features a Disaster Recovery Module to facilitate the recovery in the event of a disaster. The use of copy storage pools allowing for offsite media means that in the event of primary site disaster the data can be recreated at a secondary location. The automated daily creation of disaster recovery plans is a beneficial tool in the event of a disaster providing you with key information to recover your site.

The use of bare machine recovery tools such as TSM Fastback Bare Machine Recovery and IBM Tivoli Storage Manager for Sysback allows your key server infrastructure operating systems to be restored faster than rebuilding alone in the event of a disaster these are vital in achieving your recovery objectives.

Regular Disaster Recovery testing is the key to recovery. InTTrust has assisted in many DR tests with our customers.

InTTrust is able to:

- Design and implement scalable, flexible, best practice Tivoli Storage Manager solutions tailored around your company requirements.
- Provide maintenance and support for existing Tivoli Storage Manager environments.
- Provide Health Checks services to ensure that your company storage objectives continue to be achieved.
- Develop integrated cross brand IT solutions featuring a rich portfolio of IBM \ Tivoli products to provide real business benefits.

Many options such as Tape Vaulting, LAN-Free backups and restores, Server-Free backups, Zero- Time backups and the integration of Database Protection utilities (e.g. RMAN) are available with this service

so we can meet your specific requirements.



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