QSTAR TECHNOLOGIES

SECURING THE FUTURE OF YOUR DATA®

TMT
Technology Migration Tool

One of the fundamental principles of any archive is the preservation and long term management of data. For more than 20 years QStar has provided robust archive solutions to thousands of companies worldwide. A QStar archive helps companies manage the lifecycle of their data through innovative software solutions and the support of extended life storage media.

A well designed archive strategy minimizes data handling by retaining data for as long as possible on a given storage media. However, for economic or technical reasons there comes a time in the lifecycle of any archive when data needs to be migrated from older, lower capacity storage to the latest generation technology. QStar's Technology Migration Tool (TMT) has been developed to simplify the data migration process. TMT is an automated utility that securely and efficiently migrates data from one archive to another with minimal IT disruption.

TMT Overview

TMT is a utility that provides the automated migration and recovery data from an old to a new archive independent of storage technology or file format. The TMT utility provides options for the physical migration of data, as well as the verification of the data after a migration process.

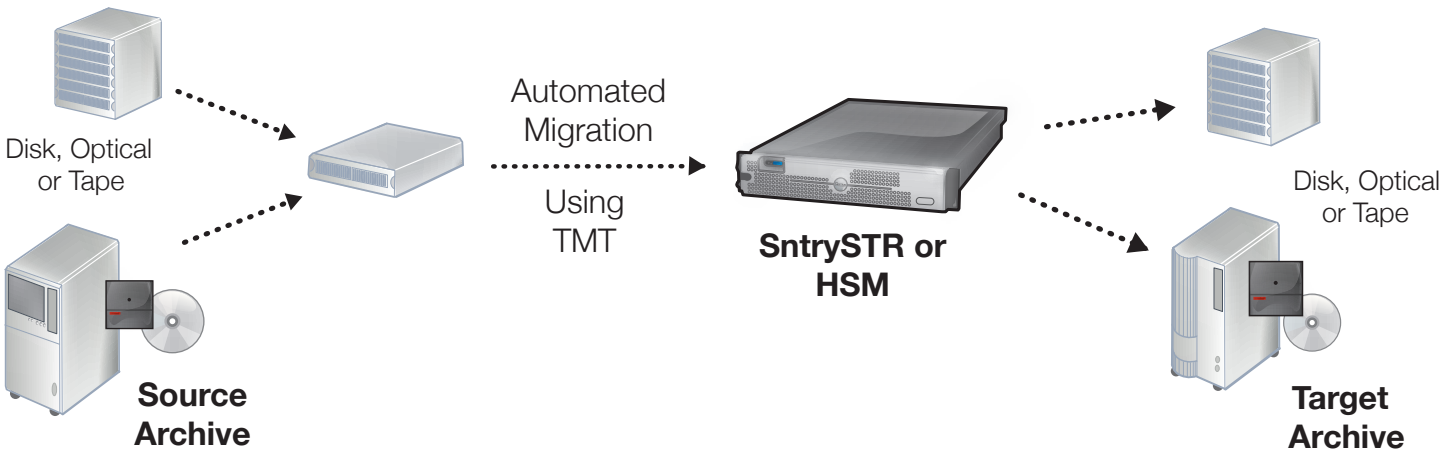
Data Migration

TMT supports the migration of data from a designated source archive to a target archive. By default, only those files that don't already exist in the target archive are migrated from the source. The source archive can be any media type which is managed by QStar software or controlled by a non-QStar application. The destination must be a QStar archive (e.g. SntrySTR or HSM) written in either UDF or SDF format. TMT is typically used to migrate the contents of an entire archive by breaking down the process into incremental batches associated with source data sets or subdirectories.

TMT includes an execution time limit option that specifies how long the utility should run before automatically terminating. This option allows an operator to control exactly when migration is running or to manage the migration process through a 3rd party job scheduling application. Upon resumption of a suspended migration, TMT automatically picks up from where it left off and continues the process.

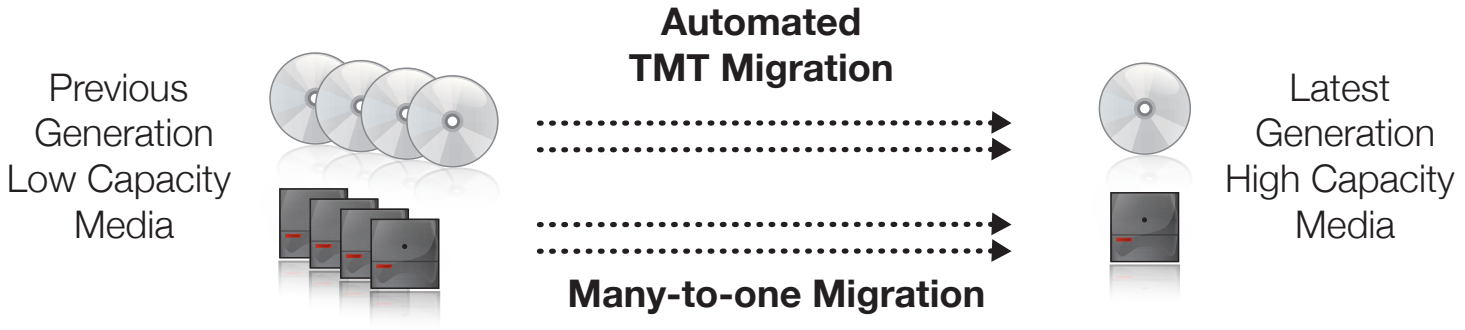
Since source archives are often using older, lower capacity storage media, TMT supports many-to-one migration where data from multiple source media can be migrated to a single target media.

Data Migration Operations



TMT - Technology Migration Tool

Data Migration Operations



Data Recovery

Circumstances may require that data be migrated from a source archive that is no longer operational. In this case, TMT supports the process of recovering data from non-operational archives that were originally based on QStar or non-QStar management software. QStar's HSM or SntrySTR solutions in combination with TMT can be used to read and migrate data originally written in a wide range for file systems formats including: UDF, SDF, Plasmon file systems (PFS, AFS-1, AFS-2), and the Plasmon Archive Appliance file system (AAFS).

Data Verification

The TMT utility provides two levels of data verification which can be run after migration to ensure the process was accurately completed. The first level is metadata verification which compares the metadata of source and target files. This verification process is quick and provides an adequate level of integrity checking for most environments. Where more detailed verification is required, the operator can choose full data verification which compares the metadata and file content of source and target archives. Full data verification is a more time consuming process, but provides a very high level of data integrity checking.

TMT Benefit Summary

- Simple utility for the migration and verification of archive data
- Provides data migration between two QStar archives
- Provides data migration from a non-QStar archive to a QStar archive
- Supports migration between different capacity media generations
- Provides fast metadata verification
- Provides thorough metadata and file content verification
- Supports a wide range of file system formats at migration source and target
- Accommodates offline media requirements
- Suspend and resume capabilities for better control and resource management
- Enables suspend and resume for better resource control

Source file system support includes UDF, SDF, Plasmon file systems (PFS, AFS-1, AFS-2), and the Plasmon Archive Appliance file system (AAFS).

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