## Synchronization Prerequisites And Considerations

## **Synchronization Prerequisite**

To be able to synchronize you will need the following components and information:

- 1. The TapeTrack Synchronization Suite software fully installed.
- 2. The address and port of your TapeTrack Server.
- 3. The User-ID and password of your TapeTrack Server.
- 4. The TapeTrack Customer-ID and Media-ID for the tapes being synchronized.
- 5. The TapeTrack Repository-IDs for each location that a tape volume may be moved to.
- 6. The ability to extract data from your backup or tape management software using either an ODBC connection or command line interface.
- 7. Access to schedule a task under Windows Task Scheduler or cron(8).

## **CPU And Bandwidth Considerations**

The TapeTrack Synchronization Suite programs are written in C and are optimized to use minimal bandwidth and CPU.

To calculate the potential bandwidth used during a synchronization, the program will download a cache of volume information with each volume record consisting of approximately 300 bytes. If the volume also has a description, an additional 256 bytes may be downloaded.

This means that if you have a library of 10,000 tape volumes, each of which has a description the cache will be:  $(10,000 \times 300 \text{ bytes}) + (10,000 \times 256 \text{ bytes}) = 5.5 \text{ megabytes}$ .

The 5.5 megabytes is then compressed using level 9 gzip(3) compression which usually compresses down to approximately 1 megabyte.

Then, if 100 tapes are updated, this would consume (100 x 300 bytes + 100 x 256 bytes) 55KB of uploaded data. This data is usually compressed at a ratio of 2:1, which means that the total upload bandwidth is around 28KB.

From:

https://rtfm.tapetrack.com/ - TapeTrack Documentation

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Last update: 2025/01/21 22:07

