

T-Pontis[®] powered by ATTO

This TechLetter gives a rough overview about the deployment of actidata T-Pontis iSCSI-Bridges within an existing IT environment to connect a LTO Tape Library or a LTO Tape Drive with a centralized server or a defined virtual machine (VM) via 10GbE connectivity and the iSCSI protocol.

Benefits:

- **T-Pontis 1U-Bi:**
iSCSI-Bridge supporting LTO Tape Libraries equipped with up to four LTO-Tape Drives (SAS)
- **T-Pontis 1U-LTO:**
Built-in LTO-Tape Drive (1x LTO-8 or 1x LTO-9)
- T-Pontis iSCSI-Bridge in 1U rackmount enclosure
- Dual 10GbE connectivity to hosts (optical SFP+)
- Front Display shows actual IPs, environmental temperature, and humidity
- 2x SFP+ transceiver and rackmount rails included
- 80PLUS Platinum certified power supply
- 3 years limited warranty

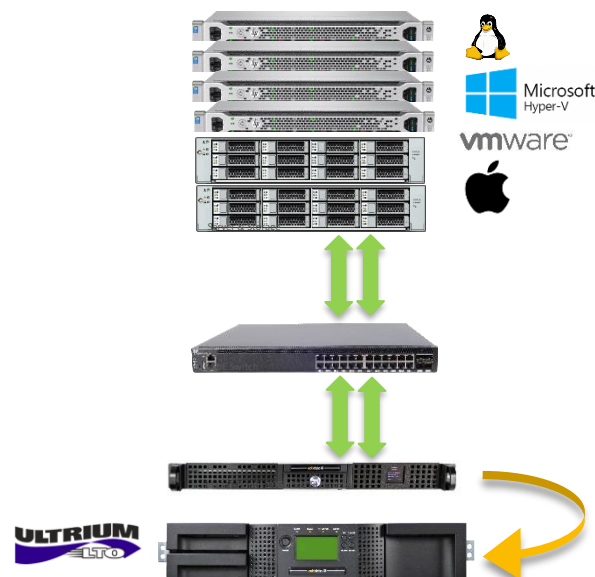
actidata T-Pontis[®] Dual 10GbE iSCSI-to-SAS 12G Bridge



The use of the iSCSI protocol over 10Gb-Ethernet provides a simple and cost-effective solution for managing and operating LTO Tape Libraries both directly in the data center or in a remotely installed IT rack. The actidata T-Pontis 10GbE iSCSI Bridge offers the necessary performance features here. With two 10Gb optical Ethernet interfaces, up to four LTO drive can be served both from a dedicated backup & archive server or directly from a virtual machine (VM). Thanks to iSCSI, the actidata T-Pontis iSCSI Bridge operates independently from central operating systems and is controlled via an server based installed iSCSI initiator.

Example: actidata T-Pontis 1U-Bi serves a Tape Library

In virtual environments, the connection of an LTO Tape Library directly to a productive server is not supported, so a dedicated backup server must be provided here. The T-Pontis iSCSI Bridge, as an alternative, is accessed from a VM via Ethernet. This in turn provides the VM via it's installed iSCSI initiator the LTO Tape Library, which can then be used as a backup target.



actidata T-Pontis 1U-Bi iSCSI Bridge connected to centralized productive Systems, serving a actiLib 2U LTO Tape Library via SAS

Displays on the front shows IP addresses, temperature & humidity

Clearly displayed – On the front of the actidata T-Pontis Bridges, the IP addresses of the 10Gb-Ethernet interfaces can be easily found. This simplifies integration into existing networks and integration of storage targets. Since environmental conditions must always be taken into account for the operation of LTO streamers and LTO Tape Libraries, the current temperature and humidity in the environment of the actidata T-Pontis Bridges are also conveniently displayed at the same time. Switching on/off will be done on the front side, with the illuminated button which also showing the operating status.



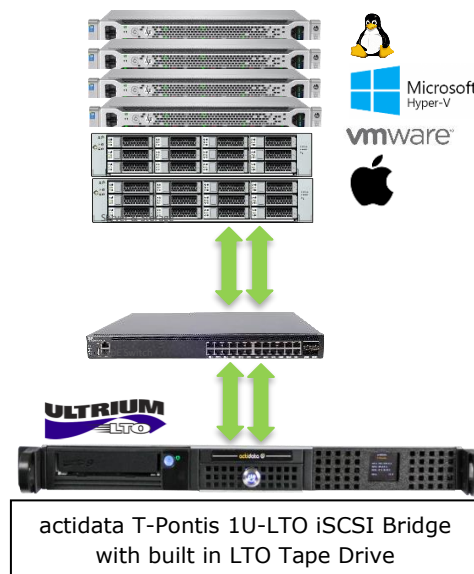
Backup & Archive to LTO Tape over 10Gb Ethernet

Regardless of the operating system, the actidata T-Pontis Bridge is controlled via the iSCSI initiator within the server's operating system and thus supports almost all common backup and archive software manufacturers.



Example: actidata T-Pontis 1U-LTO with built-in LTO Tape Drive

The actidata T-Pontis 1U-LTO system is particularly recommended for creating additional data backups in addition to NAS and cloud backups. Here, a built-in LTO streamer complements the 10GbE Bridge in a 1U rackmount enclosure, which is preferably installed in a remote location (Keyword: 2nd fire section) and operated via existing Ethernet topologies, controlled by a centralized server or VMs.



actidata T-Pontis iSCSI Bridges powered by ATTO Technology

Thanks to ATTO Technology and its ATTO XstreamCORE Technology which is powering up actidata's T-Pontis iSCSI-to-SAS Bridges. Connected via optical 10Gb-Ethernet topology to the main servers two data streams will serve up to four LTO Tape Drives built into a LTO Tape Library.

