



**T-40 SERIES
MLT / LTCN
SPECIAL APPLICATION
SERIES AM5 THROUGH AM11
RELEASE NOTES
RELEASE 26.2**

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1 INTRODUCTION

These release notes are for the **T-40** series **AM5** through **AM11** implementing the special application of LTCN for Mechanized Loop Test (MLT). Earlier series **T-40** implementations of the LTCN special application are covered by a separate document.

These release notes highlight the product features, modifications, known caveats and any special considerations for the standard personality module for the **T-40** series **AM5** through **AM11** platforms.

The **T40-LTCN** is a migration solution for all variants of the Loop Test Communications Environments. It is designed to be used in conjunction with an Internet Protocol conversion of the Tollgrade LoopCare product. The LoopCare product is the evolution of the Lucent Technologies MLT operations system.

The **T40-LTCN** can replace a DCN in its entirety. This eliminates a maintenance risk since the DCN is manufacturer discontinued, with a consequential shortage of spare parts. A side benefit is that the **T40-LTCN** will free up the 120 square feet of conditioned floor space taken up by the DCN.

The **T40-LTCN** supports an enhanced TCP/IP interface to the LoopCare host. This allows connectivity with the LoopCare hosts using an IP infrastructure. The new LoopCare hosts do not have either a BX.25 interface to communicate with a DCN, nor a fiber interface to communicate with a BNS node. Instead, the LoopCare hosts have implemented a direct TCP/IP interface to the T40-LTCN.

Consult the **T-40 LTCN** User's manual, application notes, and manual pages for a complete enumeration of the features.

2 RELEASE ERRATA

The errata in these release notes are for Release **26.2** only. For errata on prior releases, please consult the previous release notes.

- Starting in 2025, the release numbering scheme changed to be the year, followed by a sequential enumeration. This is done due to the substantial number of security threats that need to be identified and enumerated.
- Support for the **LLDP** protocol is allowed. The default is that the feature is disabled. It must be specifically enabled with the command **LLDP ENABLE**. The **T-40** will issue an **LLDP** PDU every 30 seconds. The time may be changed to an alternate value.
- The 26.2 release includes security issues known through December 2025. The LTCN special application module had not been updated for 3 years so it also includes the security issues of 2023, 2024, and 2025.
- The special incident CVE-2026-24061 has been addressed in this release. This incident is labeled as CVCS 3 severity which is “critical”.
- The T-40 SNMP agent had a vulnerability whereby a malicious actor could affect the service of the device. This issue was never seen in the field, but was related to a similar problem reported by another manufacturer with their VPN routers. An investigation into those potential threats identified this vulnerability which is corrected in this release.
- The SSH implementation has been updated with revised keys per the recommendation of the 2025 IETF and other standards bodies. The SSH implementation also remains fully backward compatible with older variants so that it may interoperate with existing equipment and servers. The negotiation is automatic and the **T-40** will select the most secure options available for the connection.
- This release corrects a situation where the T-40 could be “bricked” by a malicious actor.
- This release requires T-40 Host Utilities Revision 26.1 or later for administration. This is the current release of the Host Utilities. .

3 INSTALLATION ADDENDUM

3.1 OBTAINING INFORMATION FROM TELECOMP R&D

Upgrade files for all the TeleComp R&D products are obtained by contacting the author.

The **ssh_upgrade** utility will verify the integrity of the files automatically. It is no longer necessary to manually check the sums.

The files will be emailed gzipped. The procedure is to merely **gunzip** the files and then use the **ssh_upgrade** host utility to apply the file to the device.

Upgrade files are specific for a **T-40** series device.

For example:

```
gunzip T-40_AM5_AM11_LTCN_Release_26.2.official.gz  
ssh_upgrade -v -s 192.168.0.80 T-40_AM5_AM11_LTCN_Release_26.2.official
```

Repeat the **ssh_upgrade**, command for each device to be upgraded. They may be spawned in parallel as they use very few resources on the server. Please note that the **tel_upgrade** utility, while still available, is deprecated due to security concerns. Please use the **ssh_upgrade** utility going forward.

3.2 DATABASE CONVERSIONS

When moving from one release or version to the next, the database is usually automatically converted.

3.3 SOFTWARE REGISTRATION

The **T40** series device pre-registered when received. No further action is required. Registration for any subsequent update is automatically performed as part of the upgrade procedure. Devices that are not registered will not update.

3.4 UTILITIES

The T-40 series utilities are available for Telnet and SSH operation.

All of the utilities are available by contacting angel@trdcusa.com.

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6 AUTHOR

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