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VeEX MTTplus-260 SHDSL Module User Manual

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VeEX MTTplus-260 SHDSL Module

Product Information

The MTTplus-260 SHDSL Module is a software module designed for use with the MTTplus Platform. It is compatible with MTTplus Platform versions 03.00.0000 or higher. The module provides compatibility with newer and faster host CPUs in newly-shipped MTTplus platforms.

The module has undergone several software releases, including version 03.01.0000 (January 7, 2022), version 02.00.0000 (February 25, 2021), version 01.08.0004 (March 8, 2017), version 01.07.0007 (June 2, 2016), and version 01.03.0001 (December 14, 2015).

Each software release comes with its own set of features, improvements, known issues, and limitations. Please refer to the specific release notes for more details.

Product Usage Instructions

To use the MTTplus-260 SHDSL Module, follow these instructions:

1. Ensure that you have the MTTplus Platform version 03.00.0000 or higher installed.
2. Insert the MTTplus-260 SHDSL Module into the appropriate slot on the MTTplus Platform.
3. Power up the MTTplus Platform to detect the new module.
4. Once the module is detected, you can access its features and functionalities through the MTTplus Platform interface.

Note that module hot swap is not supported, so a new module will be detected upon power up each time. Make sure to refer to the specific software release notes for any known issues, limitations, or additional instructions related to the version of the module you are using.

INTRODUCTION

Software version 03.01.0000

Release Scope

- Major Release. Limited Availability.
- Requires MTTplus Platform version 03.00.0000 or higher

Features and improvements:

1. Required for compatibility with new major MTTplus Platform release 03.00.xxxx to support newer and faster host CPU in newly-shipped MTTplus platforms.

Known issues or limitations

- This release is limited to new MTTplus Platforms shipped since January 2022. This version is currently under regression and beta testing for platforms shipped prior to 2021. DO NOT downgrade factory-installed 03.00.xxxx versions to 02.xx.xxxx, unless specifically instructed by our Customer Support team!.
- Module hot swap is not supported. A new module will be detected upon power up.
- IP Data Features are supported for EFM mode only.
- Alarm Thresholds are currently set at: SNR Margin = 1 dB and Attenuation = 40 dB.
- STU-R Auto Mode applies for Annex B (European) systems only.

Software version 02.00.0000
Release Scope

General availability.
Requires MTTplus Platform version 02.00.0000 or higher

Features and improvements

1. Required version for compatibility with MTTplus Platform version 02.00.0000 or later versions.

Known issues or limitations

- **a.** Module hot swap is not supported. A new module will be detected upon power up.
- **b. I**P Data Features are supported for EFM mode only.
- **c.** Alarm Thresholds are currently set at: SNR Margin = 1 dB and Attenuation = 40 dB.
- **d.** STU-R Auto Mode applies for Annex B (European) systems only.

Software version 01.08.0004
Release Scope

General availability.
Requires MTTplus Platform version 01.00.0032 or later.

Features and improvements:

1. Resolves interoperability issues with legacy ECI DSLAMs for ATM 4-wire and ATM-IMA 8-Wire modes.

Known issues or limitations

- **a.** Module hot swap is not supported. A new module will be detected upon power up.
- **b. I**P Data Features are supported for EFM mode only.
- **c.** Alarm Thresholds are currently set at: SNR Margin = 1 dB and Attenuation = 40 dB.
- **d.** STU-R Auto Mode applies for Annex B (European) systems only.

Software version 01.07.0007
Release Scope

General availability.
Requires MTTplus Platform version 01.00.0019 or later.

Features and improvements:

1. Now supports ATM-IMA mode for 4 Pair / 8-Wire mode.
2. SHDSL layer interoperability improvements
    1. Legacy Lucent ATM 4-Wire Enhanced, non-standard Mode: use new 'ATM Lucent' selection
    2. Legacy ECI ATM 2-Wire and 4-Wire Modes: use new 'ATM ECI' selection.
3. Now supports basic EFM OAM features:

1. CCM Transmit
2. Link OAM Passive Mode for far end MAC detection

Known issues or limitations:

- **a.** Module hot swap is not supported. A new module will be detected upon power up.
- **b.** IP Data Features are supported for EFM mode only.
- **c.** Alarm Thresholds are currently set at: SNR Margin = 1 dB and Attenuation = 40 dB.
- **d.** STU-R Auto Mode applies for Annex B (European) systems only.

Software version 01.03.0001
Release Scope:

Initial Release. General availability.
Requires MTTplus Platform version 01.00.0007 or higher

Features and improvements:

1. Initial Release.

Known issues or limitations

- **a.** Module hot swap is not supported. A new module will be detected upon power up.
- **b.** IP Data Features are supported for EFM mode only.
- **c.** Alarm Thresholds are currently set at: SNR Margin = 1 dB and Attenuation = 40 dB.
- **d.** STU-R Auto Mode applies for Annex B (European) systems only.

References

Test Profiles and Test Results Backup Procedure
Warning: Before upgrading the platform or module software, it is recommended you back up all test results and profiles to avoid this data being lost during the upgrade process. The software upgrade process clears all user data stored in the unit.

The MTTplus Platform File Management system offers backup [To USB] and restore [From USB] functions to preserve User data. This function is located in the Utilities >Files >Saved system – see the left side of the screen. To enable the [To USB] and [From USB] functions, insert a USB Memory stick (FAT32 file format) into a USB port on the side of the unit. Do not remove the micro USB drive located on the top slot. Wait for the USB memory to be detected (the folder icon will change appearance with a green USB memory icon).

Select the desired test results, test profiles, screen capture and protocol capture files to be saved, using the individual check boxes. For a full backup, check the master check box on the header and all files will be marked. Tap the [To USB] button to initiate the file transfer procedure and wait for the progress bar to finish. Original files won't be deleted from the test set.

Name	Mode	Test	Module	Date	Type	Lock
Last configuration	Common	IP Addr	MAN	2015-12-14 13:00:16	Profile	
demo-1u	OTDR	SORS	Demo Cable	2015-10-25 23:17:21	SOR	
demo-PON	OTDR	SORS	Demo Cable	2015-10-25 23:17:22	SOR	
demo_deadZone	OTDR	SORS	Demo Cable	2015-10-25 23:17:23	SOR	
demo_Pulse1mks	OTDR	SORS	Demo Cable	2015-10-25 23:17:22	SOR	
001-Lakeview	OTDR	SORS	California	2015-11-05 15:24:46	PDF+sors	
001-mikev	OTDR	SORS	California	2015-12-14 13:38:29	PDF+sors	
002-Lakeview	OTDR	SORS	California	2015-11-20 12:27:39	PDF+sors	

When all files have been copied to the USB, tap the folder icon (top-right corner) and select "Remove USB Drive" to make sure all cached data is transferred to the USB drive, especially when transferring small files.
Once the unit has been updated, you can use the [From USB] function to restore the test data and profiles back onto the test set.

Updating the MTTplus Platform System Software (via USB)
Warning: The system update procedure reformats the platform's internal storage and all results and profiles are erased. Please follow
the procedure above to save all important files prior to updating the system software.
Once you have obtained and uncompressed the update package file (mttplus-veex-arm.tar.gz), the firmware update procedure can be performed using a FAT32 USB Memory stick.

Note: If installed in your PC, some file compression agents (applications) may show the resulting mttplus-veex-arm.tar.gz as a compressed file, but there is no need to expand the file any more. Keep it as is.

- Copy the uncompressed file to the root of the memory stick
- Plug the memory stick into one of the MTTplus platform's USB ports (use a USB-A OTG adapter for the microUSB-B, if necessary)
- Turn the power OFF and remove test module.
- Press the (Camera) and ◎ buttons simultaneously. The two buttons can be released once the confirmation tone (beep) is heard. The system update procedure starts.
- The update process would take a few minutes and the MTTplus will reboot itself at the end.
  The MTTplus must be connected to AC/DC charger at all times during the upgrade process. DO NOT turn it off at any time. To verify the current software version installed in the unit, open the Utilities section, select Settings, and open About. Test modules may need to be updated to their latest software version available, to ensure full compatibility.

Push Camera and Power buttons at the same time

Updating the MTTplus Platform System Software using VeExpress (Internet)

Connect the unit to the internet, then go to >Utilities >VeExpress and press Check to connect to the VeExpress server and see if there is a new SW update (Delta Push) or full upgrade (via USB memory) available.

If available, the built-in VeExpress client can perform consecutive (incremental) updates directly from the MTTplus Platform (for example, updating from 1.0.1 to 1.0.2). The advantage is that update packages are smaller and faster to download. The test set must be connected to a LAN (using the Management port) and have access to the Internet.

If the current SW is much older for a delta push, then the MTTplus will instruct you download the full install package from **www.v-express.com** or **www.veexinc.com** and perform the USB Upgrade procedure described earlier. The test set can also download the full upgrade package to an attached USB memory stick (no PC required).

Updating Native Test Module Software (via USB)

Note: Certain test modules may use different software update procedures. Please check the specific module documentation or Software Release Notes for details.
Please ensure the MTTplus Platform is running the latest firmware version available.

- Copy the test module's uncompressed firmware update package file to the root of the memory stick
- Plug it into one of the MTTplus platform's USB ports
- Turn the power OFF and insert the appropriate test module (if not already inserted).
- Turn the MTTplus Platform ON and wait for the boot up process to finish.
- The MTTplus may display an "incompatible software version" warning message to indicate that the test module requires a firmware update. Tap the OK button to close the message.
- Touch the V or Utilities button on the top bar, open the Utilities tab on the left bar, and select M.Upgrade.
- The MTTplus will search the memory stick for valid update packages and show its information.
- Tap on the Upgrade button to start the firmware update process – This could take several minutes depending on module type. The MTTplus will shut down once the upgrade is complete.

The MTTplus must be connected to AC/DC charger at all times during the whole upgrade process. DO NOT turn it off at any time; the update process would take a few minutes and the MTTplus will reboot itself at the end.
To verify the software version number installed in the current test module, turn the MTTplus back on, open the
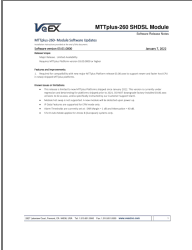
Utilities section, select Settings, and open About.
The firmware update package files for multiple modules can be copied into a USB memory stick at once, but each module must be updated separately, by plugging one module at a time, following the procedure listed above.

CONTACT

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Documents / Resources

VeEX MTTplus-260 SHDSL Module [pdf] User Manual
MTTplus-260 SHDSL Module, MTTplus-260, SHDSL Module, Module

References

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- *V* **VeEX Inc. | The Verification EXperts**

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