

About this release

Release date: 2008-09-05

Corrected functions in release 5.0.2

- Phone number and ESN not displayed for various detected devices. – Improvements made to TEMS DriveTester application; however, some devices lack support for retrieving this information, so it cannot always be shown.
- Garmin GPS18 repeatedly loses connection. – GPS replaced by GlobalSat BU-353, which does not have this problem.
- Graph in Pilot Pollution view has wrong scale.
- “Auto Start” function (see TEMS DriveTester 5.0 User’s Manual section 6.1.1.2). – This function applied to automatic power-on of connected devices when the TEMS DriveTester application starts up, not to launching the application itself on PC bootup as assumed in the defect. However, this behavior has now been changed so that if the Auto Start On option is set, then TEMS DriveTester is automatically launched after the PC has booted up.
- Sector ID information element truncated in main view (EV-DO data call). – A shortened version of the sector ID is now shown (24 bits out of the full 128).
- Walsh code column empty in Set & Finger view. – What Walsh codes are assigned to individual active set members cannot be ascertained from phone reports. The Walsh code columns have therefore been removed from the Set & Finger view. (Walsh codes are defined per physical channel and are presented in this fashion in the 1x Config view.)
- “Others” counter in call statistics is incremented for each call attempt, then decremented at end of call if the call is not to be assigned to the “Others” category. – Behavior changed so that “Others” counter does not increment until it is known that the call ended up in this category.
- Audio alert for Polluter event missing.
- RSSI scan view does not scroll when more than 255 channels are scanned.
- When browsing views (using the right-arrow button) starting from Main View - Phone 2, views for Phone 1 follow. – Corrected browsing sequence so that “Phone 2” views are shown.
- “Unrecoverable error” occurs when clicking the Run Script button and after exiting application.
- Logfile summary report: Supported scanners not identified in report; they all show up as “Unknown Scanner”.
- Screen partially blacked out for indefinite lengths of time during execution of command sequence.
- General Setup > Mobile Control tab: The “Full Tx Rate” settings are not remembered, so the buttons have to be clicked every time the application is started. The buttons are also sometimes grayed out. – Both bugs corrected in application.

- Huge number of Idle Handoff events generated at very short intervals, cluttering up the Power view line chart. – Explanation: CDMA devices sleep periodically to save battery in idle mode. Each time a device wakes up, it needs to acquire the system, and it may then end up on a different band or channel than before; in other words, an idle mode handoff takes place. – Application modified so that idle mode handoffs are not drawn in the line chart (but handoffs to and from idle mode are still shown).
- User has to load site file every time the application is started (site file is not saved in application).
- During data collection, very high Tx Power values are presented. When exported, the logfile shows normal values. – Sign error in Tx Power quantity corrected.
- Garmin GPS18 locks up TEMS DriveTester. – GPS replaced by GlobalSat BU-353, solving the problem.
- Application crashes when FTP script is restarted.
- Sound files missing.
- Command sequence, voice call with Motorola W385 and Motorola V9m Sprint: The number is dialed correctly, but the user must press the “Send” button manually on the phone for the call to be placed.
- Navigation view: Novatel S620 PC card is wrongly identified as “Novatel V620”. – Corrected to “Novatel V620-S620 PC card”.
- Phone number and ESN not displayed for various detected devices. – Improvements made to TEMS DriveTester application; however, some devices lack support for retrieving this information, so it cannot always be shown. (Same issue as defect 14266)
- Scanner view does not appear when browsing views using left-arrow button (in lower right corner of screen), starting from the Main view.
- Negative number reported for “Others” in call statistics.

Enhancements in release 5.0.2

- Easier to access the Windows start menu on the Amrel PC. “Minimize” button for minimizing the TEMS DriveTester window added in Navigation view.
- GPS icon displayed in Main view when PCTel SeeGull LX or LX Basic scanner is connected.
- Text added to User's Manual pointing out that the hub should be connected directly to the Amrel PC (USB port on the left side).
- Main view displayed at startup instead of Navigation view.
- Error message shown when HASP key is not inserted.
- When set to follow phone, PCTel scanner is put in Pilot Scan mode rather than Top N mode.
- History list of detected missing neighbors added in Missing Neighbor view (up to 250 neighbors; list is cleared at start of logfile recording).
- During execution of a data service testing script, the Main view for the KPC-650 data card previously switched from data service parameters to RF parameters between data sessions. The Main view now remains in data service testing mode until all the sessions in the script have finished.
- Scanner setup simplified: As soon as the scanner has been detected, it is assigned the default scan settings and can start scanning. The user does not have to access the scan setup screen.
- Support added for Motorola V9m and W385.

Corrected functions in release 5.0.1

None

Enhancements in release 5.0.1

- Changes in sales structures
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Known Bugs and Limitations

PC Application Related

File Transfer

- When executing the Start Recording command in a command sequence, the logfile will be written to the directory specified in the Logfile Directory field. Automatic FTP transfer of such logfiles works only if the storage directory is identical with the one specified for manual logfile recording under General Setup. If the command sequence saves logfiles to a different directory, they will not be automatically transferred.

About EV-DO View: Forward Link Traffic Distribution

- The forward link traffic distribution bar chart is not updated correctly; only control signaling appears in the chart.

About EV-DO View: Reverse Link

- These fields (data rates) do not update correctly.

Set & Finger View: Walsh Code

- Walsh codes for candidate and neighbor set members are not updated correctly.

General Setup View

- Auto Start On/Off applies only to 1x phones, not to EV-DO terminals. Note also that this option has nothing to do with whether the application should start and stop along with the OS. TEMS DriveTester can be configured to launch automatically on Windows logon by dragging the application shortcut to Start > Programs > Startup. The Power Stop device must start before TEMS DriveTester in order to work correctly.

Equipment Info View

- On rare occasions it may happen that the USB devices are detected prior to the HASP dongle, which will cause the devices to be tagged "No License" on the Equipment Info screen. Unplug the devices and reinsert them to fix this problem.
- Only user-added equipment can be removed by tapping the Remove button. To remove an autodetected device, unplug the device.

Power Stop

- If problems arise with shutdown, make sure that firewalls and antivirus software are turned off as they might interfere with the Power Stop software provided by Amrel.

Main View

- The "Others" field in the Call Statistics section counts up at call attempt and counts down again if the call is successful or if a block, drop, or access timeout occurs. If none of these things happens, the outcome of the call is undefined, and the Others field does not count down.

Script Setup View

- Before running a command sequence, make sure that the numbering of MS/DC channels (as displayed in Equipment Info) agrees with the assignment in the command sequence. That is, make sure that each command is given to the intended device.

Navigation View

- The phone and ESN numbers may be missing. This is because some devices do not respond correctly to the AT commands used to query the devices.

Polluter Sound Alarm

- The sound alarm for the Polluter event is missing.

Logfiles

- Logfiles cannot be recorded directly in MDM format. However, you can convert TEMS DriveTester logfiles to MDM format using the supplied Converter tool.

General

- Any antivirus software installed on the TEMS DriveTester computer needs to be disabled. This is especially important for data service testing.
- Firewalls and other security products may prevent the TEMS DriveTester from running two or more data sessions at the same time.
- Standby/Hibernate mode should be disabled in the PC when running TEMS DriveTester.
- Not all devices can be autodetected and identified correctly. Reasons for this include the fact that some devices do not report a unique identity. Devices that are not autodetected must be enabled manually. This option always exists as a fallback if the automatic detection fails.
- Some GPS units may be erroneously identified as a "MS Serial Ballpoint". Perform the following steps in Windows XP to prevent this: 1) With Administrator privileges on the PC, choose Start > Run > regedit. 2) Navigate to HKEY_LOCAL_MACHINE > System > Current Control Set > Services > sermouse. 3) Locate the entry "Start" and double-click on it. 4) Change the value Data from 3 to 4. This will prevent Windows XP from identifying the GPS device as a mouse. Note, however, that leaving the setting Data = 4 will prevent you from identifying new mouse devices until you change the value back to 3.
- During logfile recording as well as during logfile replay, temporary files are created by the application to enable the user to browse the history of the logfile. These files can become very large (3–4 times the logfile size), the exact size depending on the number of devices connected to the application at recording time. The temporary files are named according to the format "temsn" and created in the Windows temp directory (default: c:\path\tmp, where the path is defined by the environment variable TMP; the TMP variable can be modified from the Control Panel: System Properties > Advanced > Environment Variables). Make sure there is plenty of space on the disk where the temp directory resides. The temporary files are removed when you exit the application; however, if the application terminates abnormally, this might not happen. The files must then be removed manually.
- When you save a command sequence to an XML file, any user names and passwords (e.g. for FTP or HTTP servers) given in commands are saved with the file (encrypted). Note that another user who runs your command sequence will be accessing the server using the same user name and password.

- When running multiple command sequences at the same time, you need to be aware of potential device usage conflicts. For example, assigning Dial to the MS and Hang Up to the DC device of the same phone may cause unwanted behavior.
- Interpolation of GPS positions does not work with the PCTel SeeGull LX scanner GPS.

Phone Related

General

- Some phones and data cards cannot be automatically detected by the application. Such devices need to be connected manually. See the TEMS DriveTester 5.0 User's Manual, section 4.2.
- When two phones/data cards are connected to TEMS DriveTester, continuous periods where both devices are in dedicated mode (whether they engage in voice or data testing) should be kept short. This is necessary for performance reasons.

Qualcomm Chipset Based Terminals

- Some Qualcomm chipset based commercial terminals may not have test reporting activated. The device may then be impossible to connect, and/or only deliver low level reports. Please contact the terminal vendor; Ericsson is not authorized to change this behavior.
- Sierra Wireless data cards cannot be autodetected; they must be manually added in the application.
- The Qualcomm QTP-6800 CDMA/EV-DO phone is incorrectly recognized as a Qualcomm TM6275/SGH-Z105/SGH-Z500/SGH-ZX10 (a UMTS phone).

Scanner Related

General

- If you want to connect a scanner while TEMS DriveTester is running, you need to tap the Refresh button to make TEMS DriveTester detect the scanner.
- Occasionally it may happen that a scanner connected to TEMS DriveTester does not stop scanning when the application terminates. If this happens, unplug and reinsert the scanner power cable before starting TEMS DriveTester again.
- RSSI scanning is limited to 255 channels.

PCTel SeeGull LX

- In the event of an error report from the hardware during a measurement, all further measurements are suspended until the power to the scanner is manually recycled. There is no recovery from errors reported by hardware.
- The PCTel scanners may sometimes report many scan drop messages. The scanner uses this message to tell the host how many scan data messages were dropped and not delivered through the data link. Automatic scan data is dropped when the scanner is scanning faster than the data can be delivered through the data link, causing the pipeline to overflow.
- The PCTel SeeGull DX scanner requires its built-in GPS to find satellites before it can perform pilot scanning. (This is a PN timing issue.) It may therefore take a while after you have started the scanner until it starts reporting data. If you forget to connect the GPS antenna, or the antenna is out of GPS coverage, pilot scanning will not work at all with the DX scanner. LX scanners, in contrast, remember the GPS data they last used, so they can do a pilot scan without the GPS having found any satellites, but the PN offset may then be wrong.
- The Scanner Setup view is not aware of what protocols are supported by the connected scanner (except that the PCTel SeeGull LX Basic and DX models handle only IS-95). This means, for example, that it is possible to select IS-856 for a scanner without EV-DO capability. If you do this, the Scanner Setup view will take a long while to close, and the TEMS DriveTester application will appear unresponsive during this time. Similarly, if you have an EV-DO scanner connected, exit TEMS DriveTester, replace the scanner with a non-EV-DO scanner, and restart TEMS

DriveTester, then the application will spend some time attempting to start an EV-DO scan, not responding to user input. In both cases, TEMS DriveTester will eventually revert to normal behavior. To avoid the temporary freezes, you need to know the capabilities of the scanner you are using when editing the Scanner Setup view.

- When scanning with the Follow Phone option turned on, no information is shown in the scanner view on what protocol, band, and channel are scanned.

Contact Information

For support in using TEMS DriveTester, please contact Ericsson according to the directions found at www.ericsson.com/tems under the link "Contacts".

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