TECH TOOL RELEASE NOTES

Version 2.8.170

Volvo Group

Contents

TECH TOOL RELEASE NOTES 2.8.170

Overview

These release notes give you an overview of new features and changes in Tech Tool. Please take your time to read through this news carefully as it will support in having the full benefit of the features in Tech Tool.

Tech Tool release 2.8.170 is available for download in the Client Update from week 49, 2022.

Limitations / Challenges

1. The system changes are limited with improvements to stability and performance of Tech Tool.

2. **Installation of Tech Tool version <u>2.8.150 and above</u> will fail if Cisco Secure & Trend Micro Endpoint software is installed on the computer. Recommend staying with the currently installed version of Tech Tool.**

    a. If the user is installing Tech Tool via ISO/Web, installation will fail.

    b. If the user is updating Tech Tool via client update, installation will get corrupted.
        If installation gets corrupted, it is recommended to contact Tech Tool support team.

3. Restarting Tech Tool daily is recommended to free up resources and improve the application's performance.

4. It is recommended to perform 'Finish work' at the end of a connected product's session before connecting to the next product. This will speed up the process of connecting to the next product.

Recommended actions

1. Before initiating Tech Tool installation via Client update, ensure that all the Windows updates have been completed. Otherwise, Windows Update might cause the computer to restart, which may lead to the reinstallation of Tech Tool.

2. Restart the computer after installing Tech Tool for both a fresh installation and an update via Client Update.

Fixed Issues

Description	Brands
Automatic version identification support is extended for VM models with VERSION2 & VERSION3 vehicles.	VTC

Operation changes in the release

Operation	Changes	Brands	Models
5611-08-03-40/56228-3 'Electrical Vehicle Air Compressor status'	Operation support is updated. Not applicable to North America.	VTC✓ RTC✓	FLE(3), FEE(3) D wide ZE, D ZE
2589-08-03-02 'Exhaust after-treatment system, service regeneration'	Operation support is updated.	VTC✓ RTC✓ VBC✓	FH(4), FM(4) C, K, T, T-High B13R
2373-08-03-03/23766-3 'Common rail pressure release'	Operation support is updated for pressure precondition and information. Not applicable to North America.	VTC✓ RTC✓ VBC✓	FE, FL D Narrow, D Wide, B5LH, B8L, B8R

Operation	Changes	Brands	Models
91633-3 'X1 System, Test'	Operation support is added.	VCE ✓	**Compact Crawl Excavator:** JEC18EL, JECR18EL, ECR25DL
30006-3 'Traction Battery Charge diagnostic'	Operation support is added.	VCE ✓	**Compact Crawl Excavator:** JEC18EL, JECR18EL, ECR25DL
32245-3 'DC/DC Converter, Test'	Operation support is added.	VCE ✓	**Compact Crawl Excavator:** JEC18EL, JECR18EL, ECR25DL
32217-3 'Program DC/DC Control Unit (DCU)'	Operation support is added.	VCE ✓	**Crawl Excavator:** EC230EL
32425-3 'Program Motor Control Unit (MCU)'	Operation support is added.	VCE ✓	**Crawl Excavator:** EC230EL
36908-3 'Electric Propulsion System, Parameters, Readout'	Operation support is added.	VCE ✓	**Crawl Excavator:** EC230EL
36962-3 'Program Battery Management Unit (BMU)'	Operation support is added.	VCE ✓	**Crawl Excavator:** EC230EL
20006-3 'Engine Statistical data'	Oil pressure Parameters Readout is updated.	UD ✓	UD-HD2, UD-D3 (Quon)

Operation	Changes	Brands	Models
22166-3 'Control valve, variable oil pump, Test'	Operation support is added for FCR JPN2025.	UD✓	UD-HD2, UD-D3 (Quon)
36908-3 'Electric Propulsion System (EPS)'	Parameter readout is updated for heavy-duty Battery Electric Vehicles.	VTC✓	FHE(4), FME(4)
Operation news	Operations support is added.	VCE✓	**Crawl Excavator:** EC130EAG, EC220ECN, EC360EFL
Operation news	Operation support is enabled for the new generation I-Shift Transmission. Not applicable to North America.	VTC✓ RTC✓	FE(3) D Wide
Operation news	Operation support is enabled for ZF 8AP Automatic Transmission. Not applicable to North America.	VTC✓ RTC✓	FL(3) D Narrow
Operation news	Operation support is added for 2023 VM.	VTC✓	VM
Operation news	Operations support is added to ECU-ECM (Engine Control Module) 4.0 for BS6 OBD2.	VBC✓	B8R

Diagnostic changes in the release

Diagnostic	Changes	Brands	Models
Diagnostic support	Extended Hub Managed Diagnostic (HMD) fault tracing is added for below control units: Powertrain Control Module (PCM), Energy Storage Control Module (ESCM), Combined Charging System Control Module (CCCM), Hybrid Powertrain Control Module (HPCU). Applicable to North America.	VTC ✅	VNE
Diagnostic support	Fault tracing instructions are added for new generation I-Shift Transmission. Not Applicable to North America.	VTC ✅ RTC ✅	FE(3) D Wide
Diagnostic support	Fault tracing instructions are added for ZF 8AP Automatic Transmission. Not applicable to North America.	VTC ✅ RTC ✅	FL(3) D Narrow
Diagnostic support	Fault tracing instructions are added for 2023 VM.	VTC ✅	VM
Diagnostic support	Fault tracing instructions are updated to APTIV pre-heater relay.	VTC ✅ RTC ✅ VBC ✅	FE, FL D narrow, D wide, DE B5LH, B8L, B8R

Diagnostic	Changes	Brands	Models
Diagnostic support	Fault tracing instructions are updated for heavy-duty Battery Electric Vehicles.	VTC✅	FHE(4), FME(4)
Diagnostic support	Fault tracing instructions are updated for On-board Charger and Electric Power Supply (OCEPS) and Electric Power Take-Off (ePTO).	VTC✅	FHE(4), FME(4)
Diagnostic support	Fault tracing instructions are updated for Hybrid Powertrain Control Unit (HPCU).	VTC✅	FHE(4), FME(4)
Diagnostic support	Fault tracing instructions are updated for Akasol generation 3 batteries.	VTC✅ RTC✅ VBC✅	FEE(3), FLE(3) D E Tech, D Wide, E Tech B0E
Diagnostic support	Fault tracing instructions are added.	VCE✅	**Track Paver:** P5320D
Diagnostic support	Fault tracing instructions are added.	VCE✅	**Crawl Excavator:** EC220ECN
Diagnostic support	Fault tracing instructions are updated to include China stage IV engines.	VCE✅	**Compact Wheel Excavator:** EW60E
Diagnostic support	Fault tracing instructions are updated to support new HTL500 transmission.	VCE✅	**Wheel Loader:** L350H
Diagnostic support	Fault tracing instructions are updated to support 13L engine, Euro3 emission trucks.	RTC✅	T, T-High

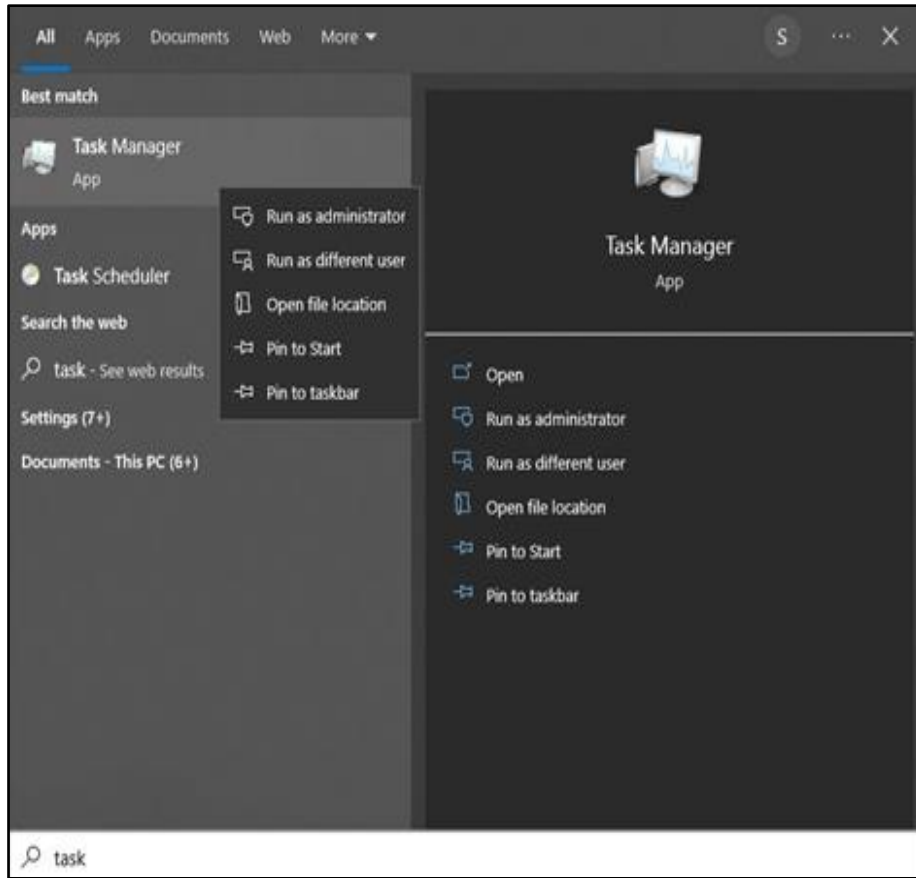| Diagnostic	Changes	Brands	Models
Diagnostic support	Fault tracing instructions are added for Engine Management System (EMS) control unit for D8 engine.	UD✅	UD-HD2, UD-HD3 (Quon)
Diagnostic support	Fault tracing instructions are added to the new Telematics Gateway (TGW) 3.0(4G) control unit.	UD✅	UD-HDE (Quester), UD-MDE (Croner), UD-HD2, UD-HD3, CF-CZ (Quon)

Known Issues and Workarounds

Issue no:	Issue Description	Brands
1.	Tech Tool Services [BAF service] are not getting started.	ALL
2.	Code integrity check failed pop-up might be observed during the installation.	ALL
3.	While switching between the tabs, Tech Tool might freeze, or an error pop-up is displayed.	ALL
4.	Impact tab not loading in Windows 11 computer.	ALL
5.	Tech Tool installation progress bar freezes during Client update.	ALL
6.	Application error pop-up in Tech Tool.	ALL

Issue-1: Tech Tool Services [Baf service] are not getting started.

Cause: When the computer is closed and enters Sleep or Hibernate mode, Tech Tool might get into the "Services not started" error.

Suggestion:

1. We recommend changing the windows settings so that the computer does not go into Sleep or Hibernate mode. (Drawback: power consumption). Please follow the instructions stated in '<u>Power Settings Modification.doc</u>'.
2. If the issue occurs, restart the computer, then launch Tech Tool.
3. If not recovered, follow the below steps after restarting the computer.
   a. Search for Task Manager in search field from task bar.
   b. Right-click on the Task Manager.
   c. Select "Run as administrator". (Contact local IT team if you don't have administrator privilege)

d. Click on the Services tab and search for the "VolvoTechToolServiceController"
    service. Right-click on the service and select Start.
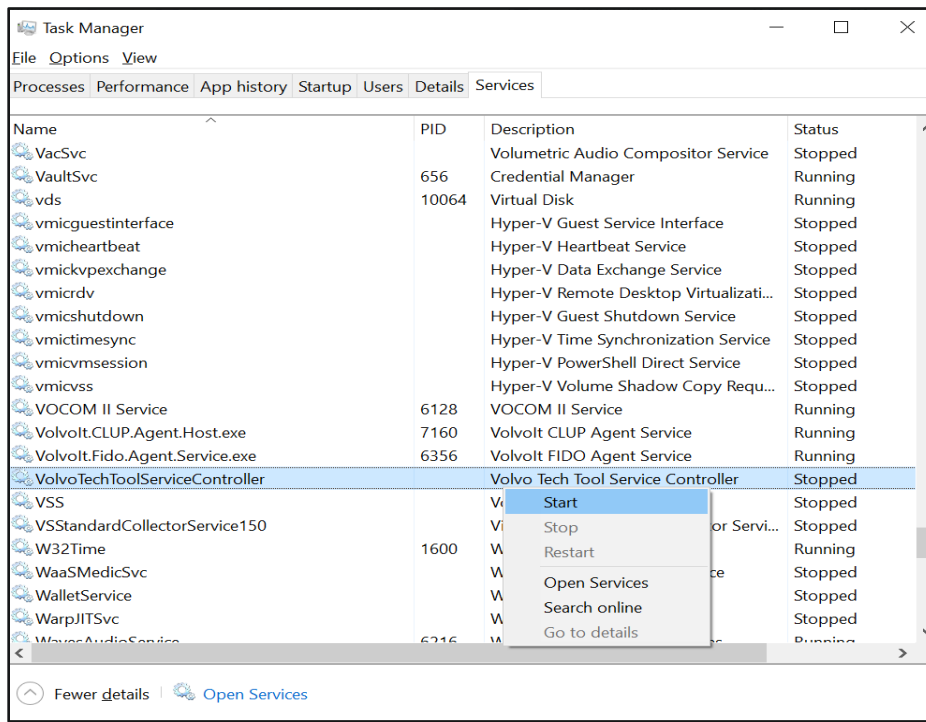
Issue-2: Code integrity check failed pop-up might be observed during the installation.
Recommend staying with the currently installed version of Tech Tool.

Cause: If the user has **Cisco Secure & Trend Micro** Endpoint software installed on the
computer, Tech Tool installation will fail.
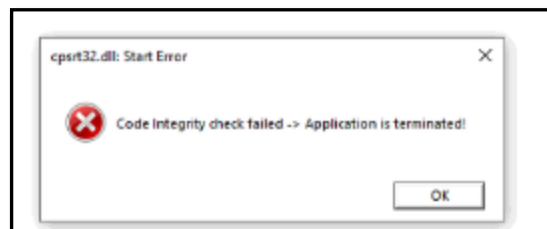
Suggestion:

1. If the user installs Tech Tool via ISO/Web, Tech Tool installation will fail.

2. If the user updates Tech Tool via Client Update, the installation will get corrupted. If
    installation gets corrupted, contact Tech Tool support team.

Note: We recommend to disable Client Update Service to avoid automatic Tech Tool update.
Information on how to disable Client Update Service is provided in the **Video.**

Issue-3: While switching between the tabs, Tech Tool might freeze.

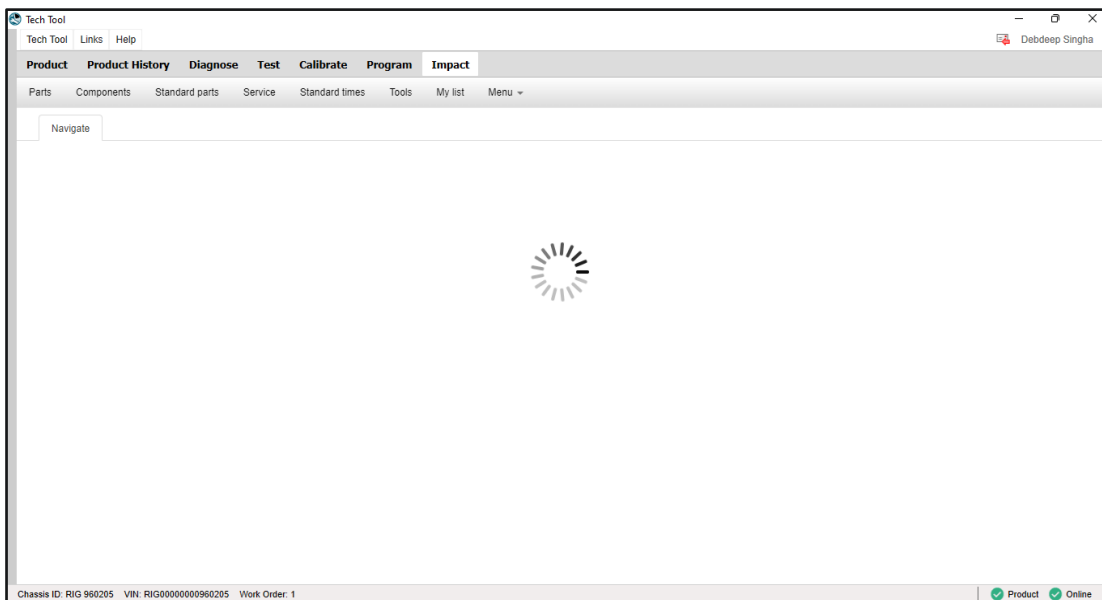**Cause:** Under investigation.
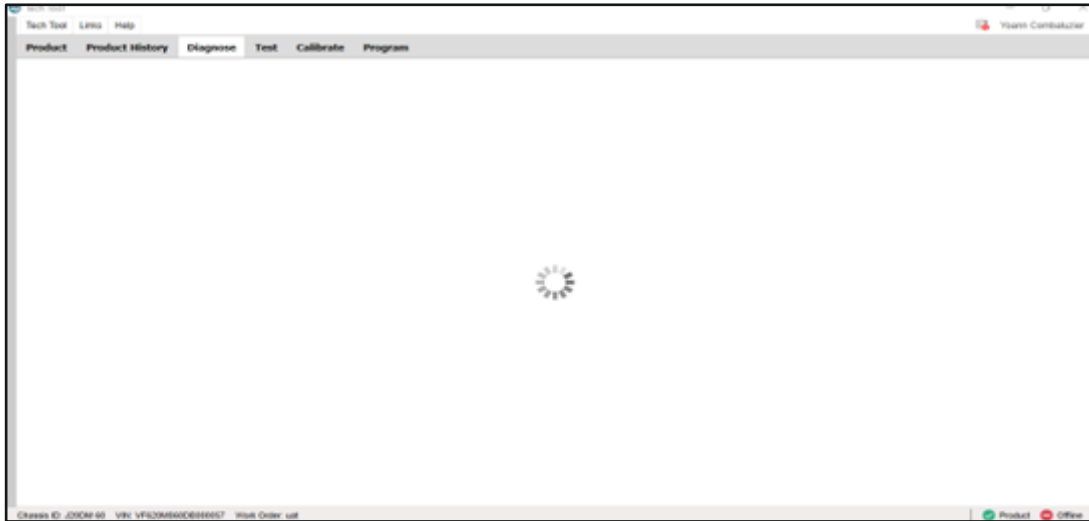
Suggestion: Follow the below steps:

1. Ensure that there is a stable network as shown in the icon
2. Restart Tech Tool.
3. If not able to recover, restart the computer.

Issue-4: Impact tab not loading in Windows 11 computer.

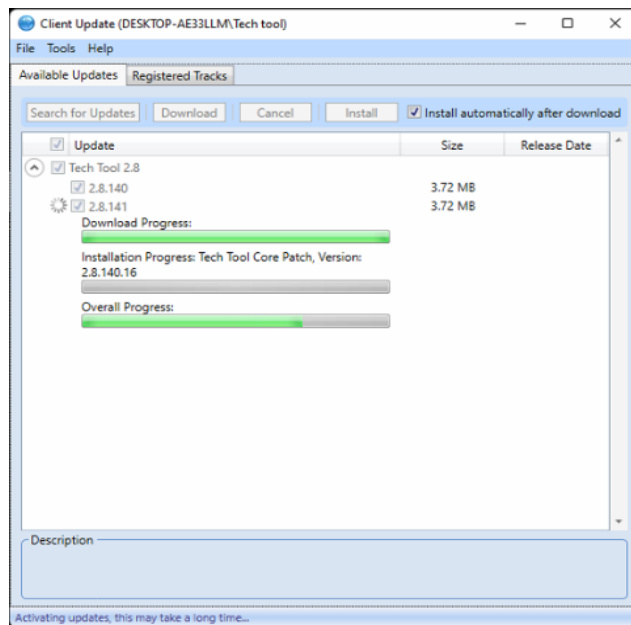**Cause:** Under investigation.

Suggestion: Open Impact tab outside Tech Tool in web browser.

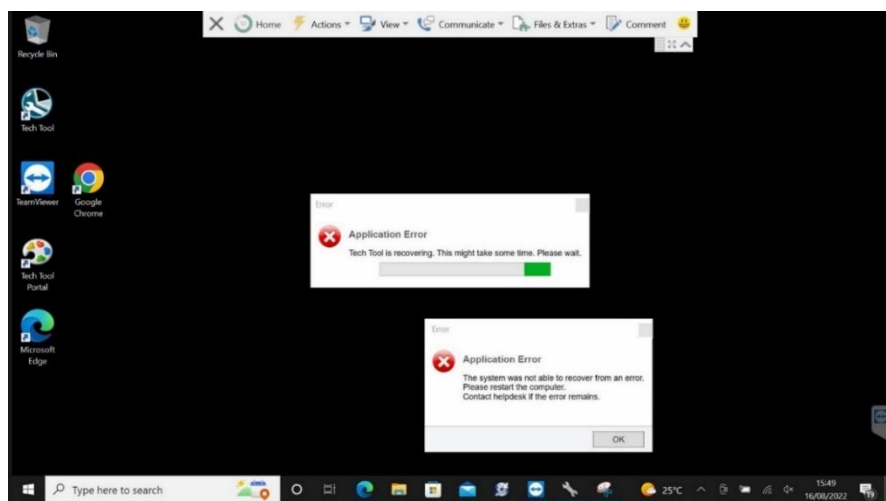**Issue-5:** Tech Tool installation progress bar freezes during Client Update.

Cause: Under investigation.

Suggestion: Restart computer if the progress bar freezes for more than 30 minutes.

Issue-6: Application error pop-up in Tech Tool.

Cause: Under Investigation.

Suggestion: Restart Tech Tool.

Note: For any issues & Support, kindly use your normal channels.