Date: 8th December 2022



# TECH TOOL RELEASE NOTES

## Version 2.8.170



#### Volvo Group

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### **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.
- 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	VTC
VERSION2 & VERSION3 vehicles.	

#### **Operation changes in the release**

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



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



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



### **Diagnostic changes in the release**

Diagnostic	Changes	Brands	Models
Diagnostic support	Extended Hub Managed	VTC	VNE
	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.		
Diagnostic support	Fault tracing instructions are	VTC 🗸	FE(3)
	added for new generation I-Shift	RTC⊘	D Wide
	Transmission.		
	Not Applicable to North America.		
Diagnostic support	Fault tracing instructions are	VTC	FL(3)
	added for ZF 8AP Automatic	RTC	D Narrow
	Transmission.		
	Not applicable to North America.		
Diagnostic support	Fault tracing instructions are	VTC	VM
	added for 2023 VM.		
Diagnostic support	Fault tracing instructions are	VTC 🛛	FE, FL
	updated to APTIV	RTC♥	D narrow, D
	pre-heater relay.	VBC♥	wide, DE
			B5LH, B8L,
			B8R





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



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



#### **Known Issues and Workarounds**

Issue	Issue Description	Brands
no:		
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.

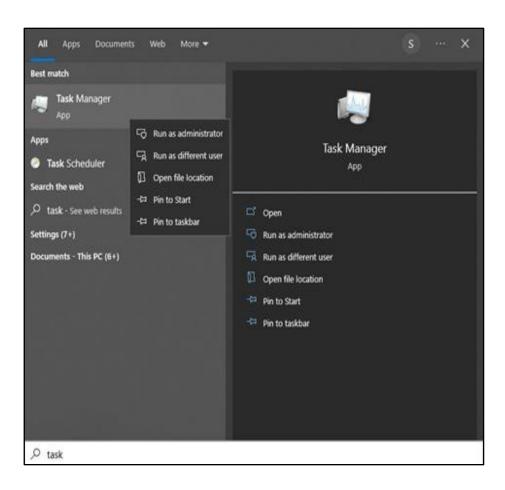
<u>Cause:</u> When the computer is closed and enters Sleep or Hibernate mode, Tech Tool might get into the "Services not started" error.

#### Suggestion:

- 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)

#### Tech Tool Release Notes





File Options View							
Processes Performance App history St	artup Users	Details	Services				
~			42%	86%	11%	0%	
Name	Status		CPU	Memory	Disk	Network	
> 🐂 Windows Explorer (4)			10.3%	83.7 MB	0.2 MB/s	0 Mbps	l
> 🙀 Task Manager			1.3%	29.5 MB	0.1 MB/s	0 Mbps	
> 🗲 Snagit Editor			0%	46.7 MB	0.1 MB/s	0 Mbps	
> 🗾 Snagit (3)			0%	11.1 MB	0 MB/s	0 Mbps	
> 📓 Notepad++ : a free (GNU) sourc			0%	1.3 MB	0 MB/s	0 Mbps	
> 🔟 Microsoft Word (32 bit) (2)			1.2%	195.5 MB	0.1 MB/s	0 Mbps	
> 🧃 Microsoft Teams (10)			0.2%	1,004.6 MB	0.1 MB/s	0 Mbps	
> 💁 Microsoft Outlook (32 bit) (7)			8.9%	210.9 MB	0.1 MB/s	0 Mbps	
> 🧿 Google Chrome (18)			2.0%	490.1 MB	0 MB/s	0 Mbps	
> 📑 Blend for Visual Studio (32 bit) (4)			0%	66.7 MB	0 MB/s	0 Mbps	
Background processes (141)							
> 📘 Your Phone (2)		φ	0%	0.9 MB	0 MB/s	0 Mbps	
🗃 WMI Provider Host			0%	0.8 MB	0 MB/s	0 Mbps	
<ul> <li>C</li> </ul>			001				



d. Click on the Services tab and search for the "VolvoTechToolServiceController" service. Right-click on the service and select Start.

Processes Performance App history Startur	Dusers Details	Services			
Name	PID	Description		Status	1
		Volumetric Audio Compos	itor Service	Stopped	
S VaultSvc	656	Credential Manager		Running	
≪vds	10064	Virtual Disk		Running	
wmicguestinterface		Hyper-V Guest Service Inte	rface	Stopped	
wmicheartbeat		Hyper-V Heartbeat Service		Stopped	
wnickvpexchange		Hyper-V Data Exchange Se	rvice	Stopped	
🤹 vmicrdv		Hyper-V Remote Desktop	Virtualizati	Stopped	
avmicshutdown		Hyper-V Guest Shutdown S	Service	Stopped	
🔍 vmictimesync		Hyper-V Time Synchronizat	tion Service	Stopped	
🔍 vmicvmsession		Hyper-V PowerShell Direct	Service	Stopped	
🔍 vmicvss		Hyper-V Volume Shadow (	Copy Requ	Stopped	
🔍 VOCOM II Service	6128	VOCOM II Service		Running	
🔍 Volvolt.CLUP.Agent.Host.exe	7160	Volvolt CLUP Agent Service	9	Running	
🔍 Volvolt.Fido.Agent.Service.exe	6356	Volvolt FIDO Agent Service	2	Running	
🖗 VolvoTechToolServiceController		Volvo Tech Tool Service Co	ntroller	Stopped	
🔍 VSS		Ve Start		Stopped	
🖏 VSStandardCollectorService150		Vi Stop	or Servi	Stopped	- 1
🔍 W32Time	1600	W Restart		Running	
🧠 WaaSMedicSvc		W Open Services	ce	Stopped	
🤽 WalletService		W Search online		Stopped	
Svc WarpJITSvc		W Go to details		Stopped	
Wayos Audio Sonvico	6216	Go to details		Pupping	>

**Issue-2:** Code integrity check failed pop-up might be observed during the installation.

Recommend staying with the currently installed version of Tech Tool.

<u>Cause:</u> 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.

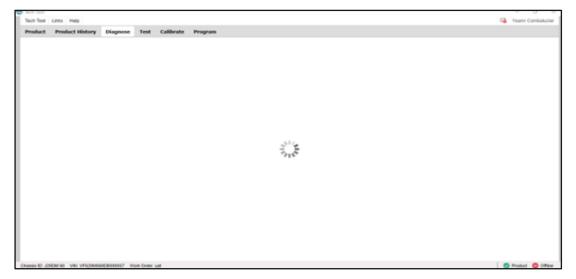
<u>Note</u>: We recommend to disable Client Update Service to avoid automatic Tech Tool update. Information on how to disable Client Update Service is provided in the <u>Video.</u>

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

Cause: Under investigation.

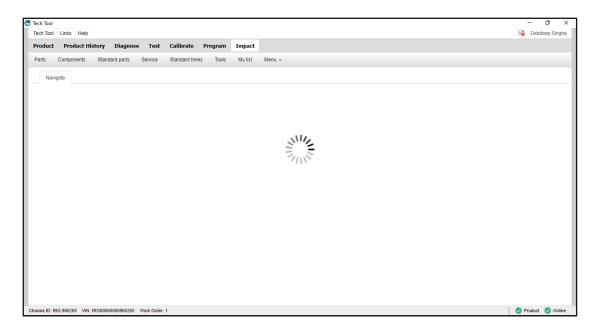


Suggestion: Follow the below steps:

- 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.

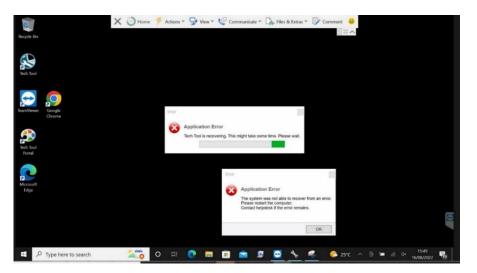
Cause: Under investigation.

wailable Updates Reg	istered Tracks					
Search for Updates	Download	Cancel	Install	Install autom	atically after down	load
Update				Size	Release Date	^
<ul> <li>✓ Tech Tool 2.8</li> <li>✓ 2.8.140</li> <li>✓ 2.8.141</li> <li>✓ Download Pr</li> </ul>	ogress:			3.72 MB 3.72 MB		
Installation P 2.8.140.16 Overall Progr	rogress: Tech Too	I Core Patch, Ve	rsion:			
o reidii riogi						

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.