



Bosch ESI[truck] Heavy Duty Truck Software Update

Version 2023/3

Aug 2023

www.boschdiagnostics.com

Welcome

In version 2023/3, Bosch continues to expand the ESI[truck] diagnostic coverage and capabilities. A brief summary of all the content additions are on the following pages. All of the additional features and functions are too complex to summarize in this newsletter, but we are confident you will be happy with the value the ESI[truck] Diagnostic system adds to your professional shop.

See the graphs beginning on the next page that highlight the ever-growing capabilities that you – our valued customers - support when you make the decision to renew your annual software license.

If you are interested in even more of the details behind all the great improvements, please visit www.boschdiagnostics.com, and navigate to the 3824A (ESI Truck) page. Click on the 'View Vehicle Coverage' link to navigate the user friendly interface and check detailed coverage.

New 'ELS' Software Behavior

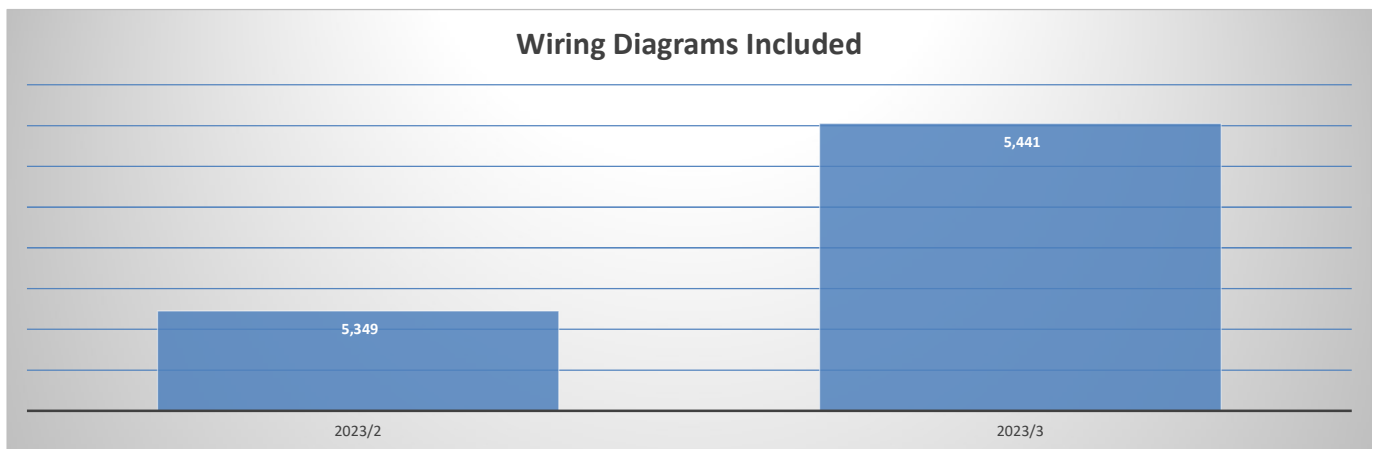
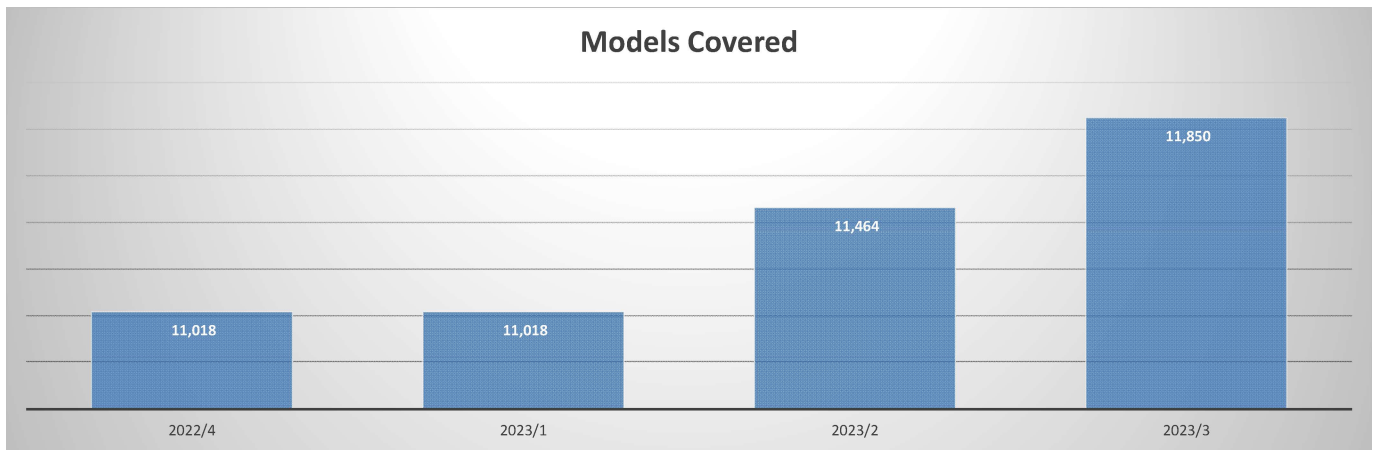
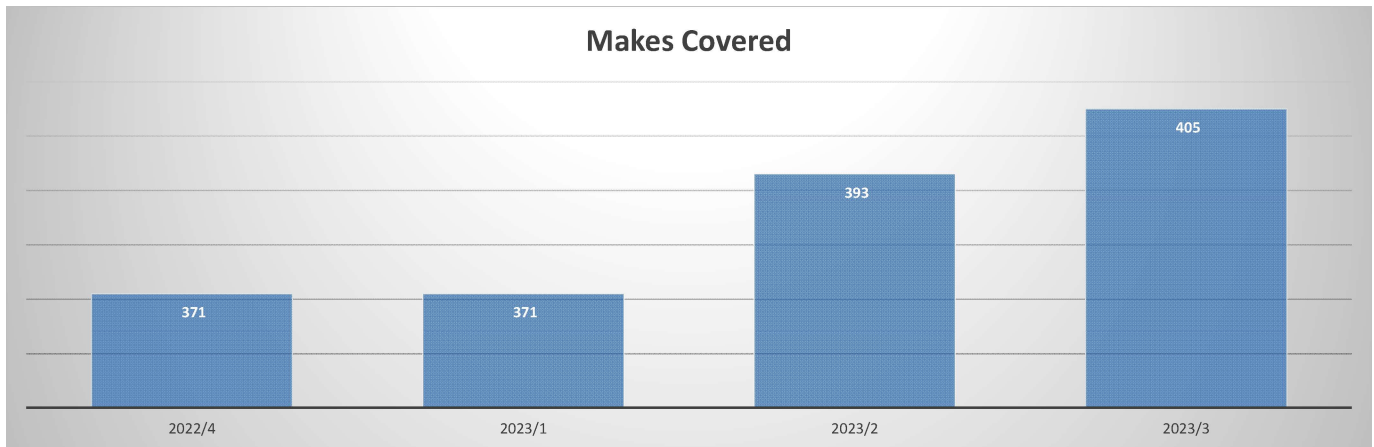
ELS stands for **E**xtended **L**icense **S**ubscription. We are excited to remind you that we have implemented functionality so your ESI Truck software will no longer stop functioning if you decide to not pay for the annual update.

In order for the ELS behavior to 'kick in', you are required to have purchased (and registered) your new tool or annual renewal **on, or after August 1, 2021**.

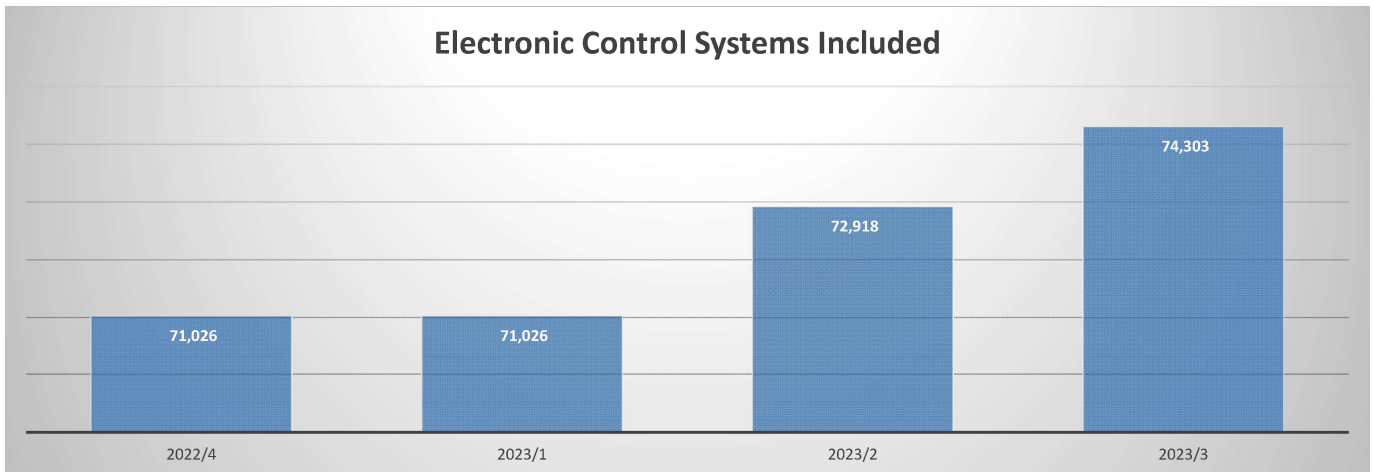
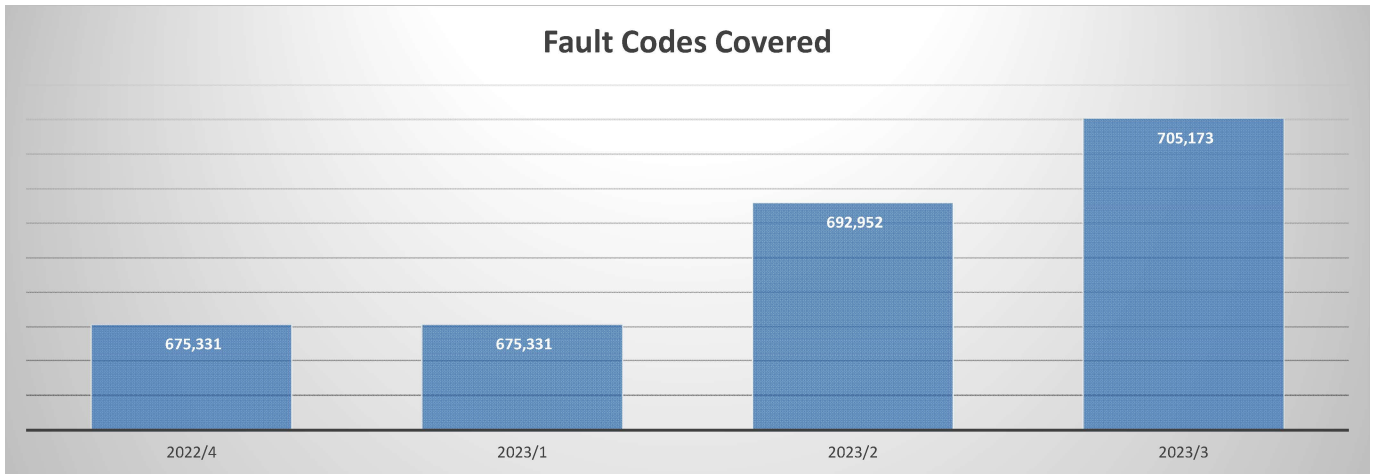
Of course, we believe you will still find sufficient value in our periodic updates and continue to purchase on an annual basis.

Please contact your distributor or Bosch support team if you have any questions.

Expanding Coverage



Expanding Coverage (continued)



Additional Vehicle Coverage & Highlights

These is just some of the most relevant new features enhanced and released in this new version. Please contact us, use the DEMO mode, or read the VTC table to have a complete detail of the systems' coverage.

Heavy-Duty Truck

New content has been added for the following Heavy Duty Systems:

ALLISON

- Allison 6th Gen transmission, adaptive shift reset.
- Allison 5th Gen transmission, parameter setting related to the bodywork, gear shift and oil filter reset.
- Allison 4th Gen transmission, setting of the vehicle speed sensor.

BENDIX

- Wingman ADAS system, expanded ECU data and live data.
- TABS-8 trailer ABS brakes, live data and activations to check wheel speed sensors, modulators and battery.

CUMMINS

- All systems
 - Extended coverage in all **CUMMINS** systems, especially for GHG21 systems in which more than 500 new references and variants have been added.
- GHG 21 systems
 - B6.7 & L9, X12/X15 CM2450 engine control system, maximum vehicle speed control, aftertreatment and governor type parameter setting.
 - B6.7 & L9 CM2450 engine control system, complete troubleshooting guides and helpful information related to fault codes.
- GHG 17 CM2350 systems
 - B4.5/6.7, L9, X12 & X15 CM2350 engine control system, maximum vehicle speed control, aftertreatment and governor type parameter setting.
- EPA13 systems
 - ISB6.7 & ISL9 CM2350 engine control system, maximum vehicle speed control, aftertreatment and governor type parameter setting.

DETROIT DIESEL-MBE

- DDEC13/16/20 EPA13 - GHG21 vehicles
 - New references and variants, especially for 2023/2024 vehicles.
 - ACM3 aftertreatment control system, DPF & SCR replacement service reset.
- Procedures such as the 'Oil and fuel filter change' that applies to many engine types for the most common DETROIT DIESEL-MBE systems.
- New DDEC III/IV Series 92 engine control system.

EATON

- Endurant transmissions, PTO2 parameter group.

FREIGHTLINER

- New references and variants in M2, Cascadia & New Cascadia modules, especially for 2023/2024 vehicles.

INTERNATIONAL

- BC & ESC body controller, HVAC measurements and component activations.

NAVISTAR

- SCR engines:
 - N9/10 & N13 engine control system, freeze frame data.
 - A26 GHG17 engine control system, freeze frame data and the DEF metering cleaning.

PACCAR

- Procedures such as the ‘Oil and fuel filter change’ that applies to PACCAR MX engines.
- GHG 21 vehicles:
 - New SWS-2 steering wheel switches.
 - VECU, VECU-2, MSM, DCP and DCD modules, activations to check switches, interior lights, and other peripheral components.
 - PCI-2 engine control system, SCR efficiency test, fuel system test, fuel leak test and engine technical data.
- Endurant transmissions, PTO2 parameter group.

PSI

- Gasoline engines:
 - 6.0L & 8.8L engine control system, injection time correction test, EVAP system and O2 sensor test.
- LPG engines:
 - 8.8L engine control system, injection time correction test and operation data.

VOLVO

- New VNR Electric model.
- HPCU common powertrain controller system, voltage system check and maintenance routines.

Light/Medium-Duty

New content has been added for the following Light/Medium-Duty Systems:

DODGE

- New EcoDiesel 3.0 model.
- PCM engine control system, expanded coverage and wiring diagrams.
- ABS anti-lock hydraulic brake system, expanded coverage and wiring diagrams.
- TCM, IPC modules, live data.

FREIGHTLINER / MERCEDES-BENZ

- CDI6 & MRD1 engine control systems, SCR warning reset.
- SAM central computer, battery reset after the component replacement in Sprinter 907/910 models.
- New STH auxiliary heating in Sprinter 907/910 models.

ISUZU

- L96/LY6 engine control system, CKP variation learning routine.

Off-Highway Software

NOTE – these features are only available if you have purchased the Off-Highway add-on module for the *Bosch ESI Truck*. To learn more about this additional capability, visit www.boschdiagnostics.com or see your tool distributor.

▶ Online Repair (Troubleshooting) module is free of charge during the promotional period **until the end of 2023**.

Agricultural Vehicles Additional Coverage

New content has been added in the following Agricultural Vehicle Systems:

- New brands
 - AVR (Root harvesters)
 - MONCHIERO (Harvesters of nuts and fruits trees, orchard sweepers)
 - REFORM
 - RMH (Self-propelled mixer wagons)
 - VREDO (Slurry/Manure)
- New models
 - ARBOS
 - 3075, engine: Tier 5/Stage V
 - CLAAS
 - Arion 6X0 - Hexashift (A96), engine: Tier 5/Stage V
 - Arion 6X0 - Cmatic (A97), engine: Tier 5/Stage V
 - Trion Series combine harvesters.

- FENDT
 - 300 Vario Series, engine: Tier 5/Stage V
 - 900 Vario Series, engine: Tier 5/Stage V
- MASSEY FERGUSON
 - 5S / 6S / 7S / 8S Series
 - 4700 M Series
 - 5700 M Series
 - 8700 S Series
- McCORMICK
 - X5 Series, engine: Tier 5/Stage V
- NEW HOLLAND
 - T3000 Series
 - T4 Series (PowerStar), engine: Interim Tier 4/Stage IIIB
- VALTRA
 - G Series
 - N XX5 (H/A/V/D) Series
 - S XX4 Series
- VERSATILE
 - 195 / 210 Tractor
 - 530 / 580 DT Tractor

It is important to note the maintenance service of the AdBlue/DEF module cleaning in the Deutz EMR4 - EDC 17 CV56 engine control system and the Sisu EEM4S5 - EDC MD1 engine control system.

In addition, extended coverage in the parameter setting in the Volvo EMS V4 engine control system, which is in numerous models of brands of harvest equipment such as AGRIFAC, HOLMER, ROPA or WEISS McNAIR.

ARBOS

- New Doosan Tier 5/Stage V DM02 engine control system.

CASE IH

- New BRK brake system in Farmall U Series and Luxxum Series models with Tier 5/Stage V engines.
- Hitch control system, rear lift calibration for Farmall V/N/F/CL Series and Quantum V/N/F/CL Series models with Interim Tier 4/Stage IIIB engines.
- REHR Remote Hydraulic Controller, spool valve coding.

CHALLENGER

- Sisu EEM4F - EDC 17 CV41 Master/Slave engine control system, checks and maintenance services for MT 800E Series and MT 900E Series models with Final Tier 4/Stage IV engines.

CLAAS

- Technical releases “Rear lift calibration” for Nexos (A47) model and “Engine oil maintenance reset” for Elios (A28/A48) model in the FPT Interim Tier4/Stage IIIB EDC 17 C49 engine control system.
- Cummins B6.7 engine control system, parameter setting and reset of the stroke of the exhaust gas throttle actuator for Avero Series model.

FENDT

- MAN EDC 17 CV42 engine control system, checks and Diesel Particulate Filter reset.
- Chassis Controller powertrain control module, wiring diagram configurations for 900 Vario MT Series and 1100 Vario MT Series models with Final Tier 4/Stage IV engines.
- New EOL 7 vehicle setting control system for 300 Vario Series model with engine: Tier 3/Stage IIIA.
- MAN EDC 17 CV42 engine control system, checks and Diesel Particulate Filter reset for IDEAL Series model.

JOHN DEERE

- ECU HPCR (Level 40) engine control system, activations of the EGR valve and the fuel supply pump for 8R and 9R Series models in tractors or CH900 Series and X9 Series models in harvesters.
- SCC hydraulic system, parameter setting of the spool valves for 5R Series model.
- VTV instrument cluster, maintenance reset for 6M Series model.
- New RC1 harvest system.
- New MHC electronic module control system.
- New EIC immobilizer.

KUBOTA

- Cummins B6.7 engine control system, parameter setting and reset of the stroke of the exhaust gas throttle actuator for M8 Series model.

MASSEY FERGUSON

- New PVED automatic driving system.
- New CSC suspension control system.
- New ATC climate control.
- Autotronic 5 – TECU suspension control system in the front axle, activations, parameter settings and calibration for 5700 S/SL Series, 6700 S Series, 7700 Series and 7700 S Series models.
- MFA armrest control system, new calibrations of the joystick, the manual accelerator and the hydraulic lift potentiometer for 5700 S/SL Series, 6700 S Series, 7700 Series and 7700 S Series models.
- Wiring diagrams configurations in Autotronic 5 - Dyna 4, Autotronic 5 - Dyna 6 and Autotronic 4 - Dyna VT transmissions for 7700 S Series model. In addition, there are new technical data and location images in these transmissions as well as in the Autotronic 5 - Power Shuttle transmission for 5400 Series model and in the MFA armrest control system for 8700 Series model.

NEW HOLLAND

- New ADIC instrument cluster, BRK brake system and EDC hydraulic lift system for T5 Series - Electro Command model with engine: Tier 5/Stage V.
- MV Remote Hydraulic Controller, calibration of the spool valve control levers.
- ADIC instrument cluster, reset of the oil change warning lamp for T5 Series - Dual Command model with engine: Interim Tier 4/Stage IIIB.
- FPT EDC 17 CV41 + Denox 2.2 (Vector) engine control system, activations of the Malfunction Indicator Lamp and the preheating resistance for FR Series model.

ROSTSELMASH

- Cummins X12 CM2350 engine control system, parameter setting and AdBlue/DEF module cleaning for RSM 2400 model.

SAME

- Display System Scan multiplex system, improved direct connection and individual connections to all systems for Rubin Series model.

STEYR

- EDC3 hydraulic lift, calibration of the rear lift position sensor for CVT Series models with engine: Tier 3/Stage III and CVT Series with engine: Interim Tier 4/Stage IIIB.

VALTRA

- Auto5 – Lifting hydraulic lift, parameter setting of the rear lift for S XX4 Series models.

VERSATILE

- New Cummins QSC 8.3 CM850 engine control system for 305 Tractor model.

Construction Vehicles Additional Coverage

New content has been added in the following Construction and Off-Highway Vehicle Systems:

- New brands
 - EPIROC
 - NC ENGINEERING
 - REFORM
 - TREPEL
- New models in the following brands JCB, KOMATSU, etc.
 - DOOSAN
 - New models for MT Series articulated haulers.

It is important to note the development of the EMS EME1 control system for STAGE V Scania engines, which has advanced functions for diagnostics tasks. This system is available in STATIONARY ENGINE or other brands such as DOOSAN, POWERSCREEN or TEREX FINLAY.

BOBCAT

- New DOOSAN EDC DM02 / DM03 (on SAE J1939) engine control system.

CATERPILLAR

- New C-2.8 / C-3.6 (on SAE J1939) engine control system.
- New C-9.3B (on SAE J1939) engine control system.
- New wiring diagram configurations in the SCR / DEF anti-pollution system for models with C-7.1, C-9.3, C-13, C15 and C18 engines.
- C2.2 (on SAE J1939) engine control system, actuation of the intake throttle valve, the cold start control relay and check of the injection rail pressure.

CUMMINS

- Technical releases and procedures in X15 engines such as “Check the fuel pump” and “Check for leaks in the turbocharger”. Technical releases in B4.5 / B6.7 engines such as “Check for leaks in the oil cooler”, among others. In addition, new technical releases and procedures have been added in L9 engines.

DEUTZ

- EMR4 EDC17 CV56 (on SAE J1939) engine control system, maintenance service for the AdBlue/DEF module cleaning.

DOOSAN

- DOOSAN EDC DL06/DL08 EDC17 CV41 engine control system, new measurements in the exhaust gas aftertreatment system.
- New EDC DM02 / DM03 (on SAE J1939) engine control system.

JCB

- DECU instrument cluster, maintenance reset.

KOMATSU

- New BBC hydraulic system for monitor R in wheel loaders.
- New TRANS transmission system for monitor R in wheel loaders.
- New ENG engine control system for monitor D in crawl excavators.
- New PUMP hydraulic system for monitor D in crawl excavators.
- New MON instrument cluster for monitor D in crawl excavators.
- New ENG engine control system for monitor F in crawl excavators.
- New ENG engine control system for monitor B in crawl excavators.
- New PUMP hydraulic system for monitor B in crawl excavators.
- New MON instrument cluster for monitor B in crawl excavators.

LIEBHERR

- Master 4, Ethernet central computer with new measurements for excavators.

MERCEDES-BENZ

- ACM3 (on SAE J1939) anti-pollution system, check of the dosed quantity of AdBlue/DEF and maintenance services such as the diesel particulate filter regeneration and the exhaust gas aftertreatment system regeneration.

PERKINS

- Extended diagnostics coverage for the 904 J (on SAE J1939) engine control system.

POWERSCREEN

- SCANIA EMS EME1 (on SAE J1939) engine control system.

TADANO FAUN

- MERCEDES-BENZ ACM3 exhaust gas aftertreatment system, check of dosed quantity of AdBlue/DEF and maintenance services such as the diesel particulate filter regeneration and the exhaust gas aftertreatment system regeneration.

VM MOTORI

- TENNECO SCR/DEF (on SAE J1939) anti-pollution system, check of the pump and the AdBlue/DEF pressure, metering test, etc.

VOLVO CE

- Technical release for the maintenance reset in the IC instrument cluster for ECR Series (XY D) Compact model.

WACKER NEUSON

- New VCU central computer for electric haulers.

Thank you for being a loyal Bosch Customer.

Visit www.boschdiagnostics.com and see your preferred Bosch Distributor for more information.

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