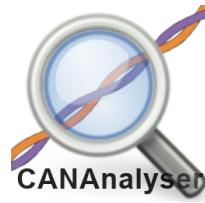


# SLSS J2534 PassThru Installation and User Manual

Document: V1.0 on June 3, 2025



Manual Based on software version 1.0.4

The information contained in this Publication is Proprietary to Serosys Technology LLC



## 1. Purpose of This Manual

This document provides comprehensive instructions for installing, using, and integrating the SeroSys J2534 Passthrough API. It is intended to assist developers, integrators, and advanced users in understanding the capabilities of the API and ensuring successful communication with automotive ECUs via the J2534 interface.

## 2. Overview

The SeroSys J2534 Passthrough API enables communication between PC-based diagnostics and flash programming applications and our proprietary CAN module over a USB interface. The software conforms to the SAE J2534-1/2 specification and provides a dynamic-link library (DLL) compatible with a wide range of OEM and third-party tools.

### 3. Key Features:

1. Implementation of SAE J2534-1/2 version 04.04 standard
2. Plug-and-play support for Windows-based diagnostic tools
3. Real-time CAN message transmission/reception
4. ECU reprogramming and configuration
5. Supports ISO 15765 (CAN), and J1850 protocols
6. Driver-level integration for low-latency communication

### 4. Getting started-Required Hardware, Software and License



Requires a minimum operating system of Microsoft Windows® 10



You must use a USB2.0 compatible cable with the CANAnalyser dongles, not a charge-only USB cable



For the software to operate properly you must have purchased one of our proprietary CAN hardware dongles and received the matching license and serial number on the hardware dongle to use during installation

### 5. Installation of the Windows Software

1. In the folder where you downloaded the SLSS J2534 PassThru installation ZIP file, unzip it into a new directory.
2. Run the "setup.exe" contained therein. **Do NOT run SLSS\_J2534\_PassThru\_Installer.msi!**

Name	Date modified	Type	Size
Readme.txt	5/14/2025 11:47 AM	Text Document	2 KB
setup.exe	5/18/2025 5:03 PM	Application	835 KB
SLSS_J2534_PassThru_Installer.msi	5/18/2025 5:03 PM	Windows Installer ...	3,118 KB

Run setup.exe, do NOT run SLSS\_J2534\_PassThru\_Installer!

# 6. Configuration and License Installation

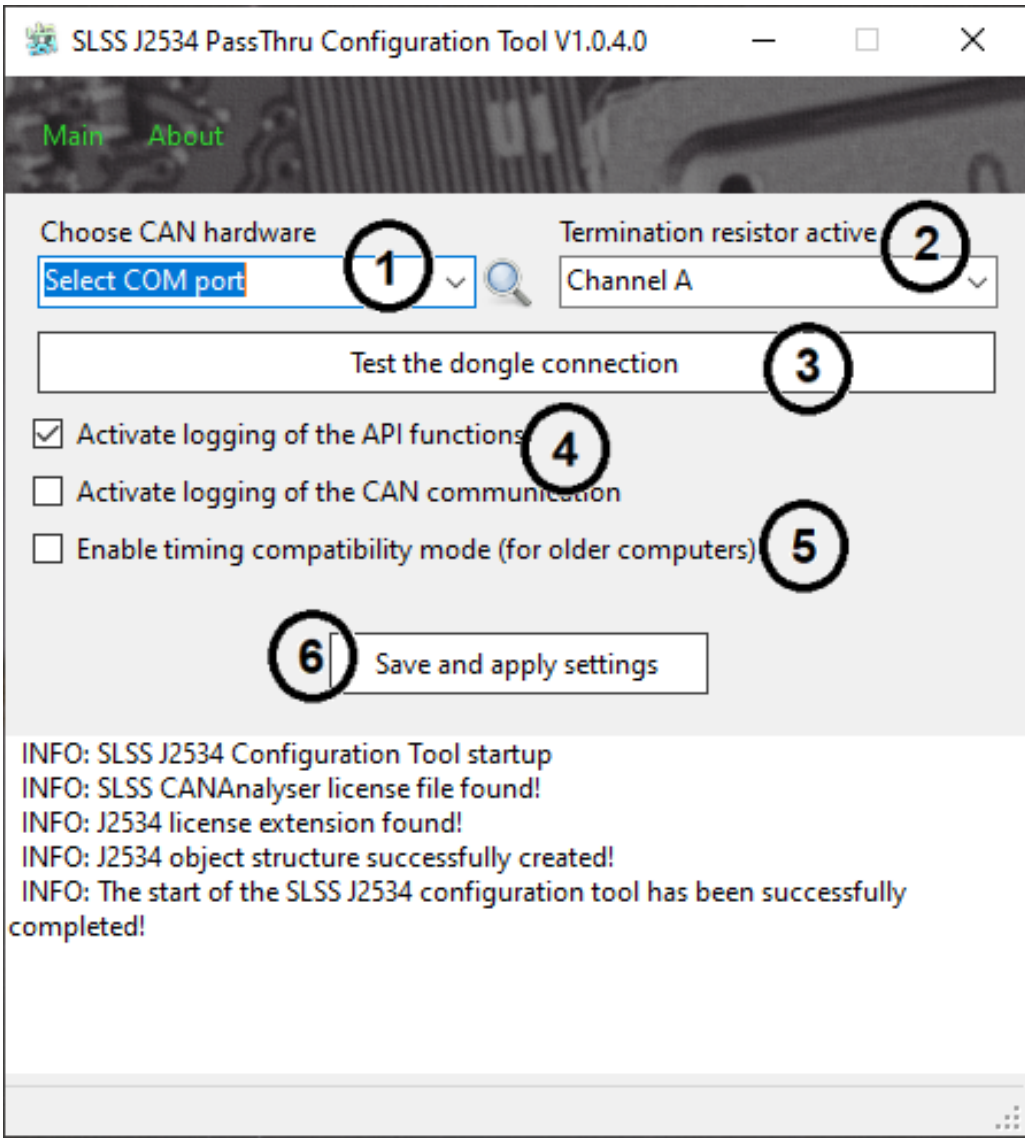
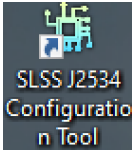


Prior to using the API Passthru DLL with any 3rd party software, you **MUST** run the hardware configuration and install the license file



**The dongle must be connected to the PC during the configuration process**

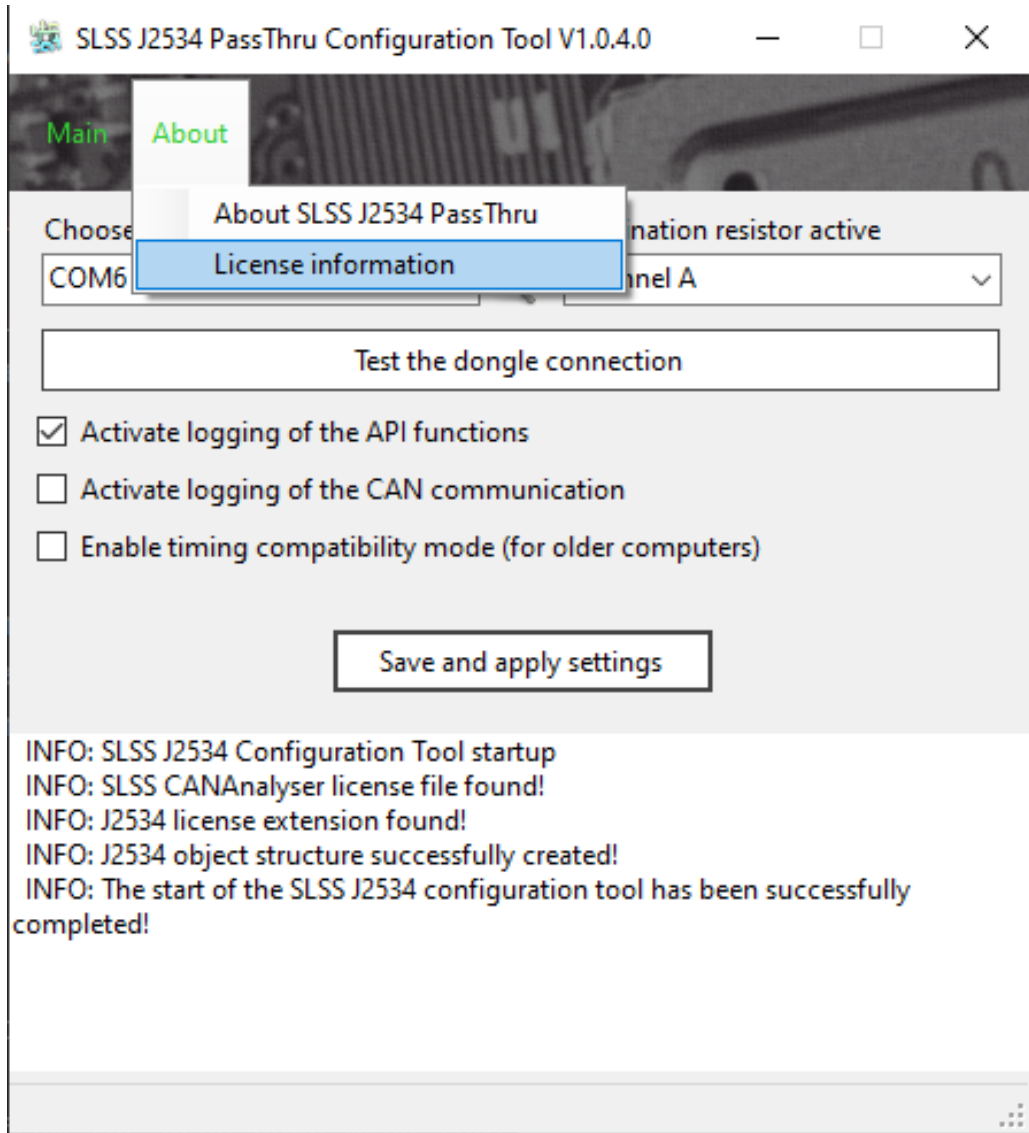
1. Once the installation process has been successfully completed, you will find a corresponding entry in the start menu and a desktop shortcut with which the software can be started.



1. Select the COM port from the drop-down menu that matches the CAN dongle connected. If there are multiple COM ports displayed and you are uncertain of the correct COM port, unplug the dongle and see what ports remain, then reconnect the dongle and find the added COM port
2. Select which channel (or both channels) that requires the termination resistor that will connect to the target ECU through the CAN dongle
3. Test the dongle connection. If configured properly, the information box will inform of a proper connection. Otherwise, try a different COM port
4. Should any logging be required, there are options to log API functions or CAN communications. These log files will be stored in the "Documents" folder. Note that this is optional and disabling these will ensure maximum speed
5. For older computers, enabling this checkbox will reduce the timing slightly to avoid retransmission errors that may be possible during an ECU software flash event.
6. After all options are made and the connection has been verified, save and apply the settings

# 7. Activating your License File!

1. **After the configuration process is complete, you will need to enter your license key information. Please follow the instructions carefully.**
2. Go to "About" and then "License Information".



3. In the new window that opens, select "Import license file" from the top menu items and then navigate to the location with your .lcf license file and select it

Refresh view

Import license file

Show license overview

License file available

License file found

Included hardware licenses

7

Actual license role

FullVersion

License number

231300000019

Hardware serial number

10018D230915

License expiration date

No expiration date

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[www.serosys-tech.com](http://www.serosys-tech.com)



4. To verify your license information, open the "License Information" window again and you can view it to see what features / hardware / serial numbers are active

License information

Refresh view Import license file Hide license overview

License file available  
License file found

Included hardware licenses  
7

Actual license role  
FullVersion

License number  
241000000054

Hardware serial number  
10001D240810

License expiration date  
No expiration date

License number	Device type	Creation date	Hardware S/N	Expiry date	License role
231300000016	Desk CAN Starter	2023.09.15	10015B230915	No expiry date	FullVersion
231300000017	Desk CAN	2023.09.15	10016C230915	No expiry date	FullVersion
231300000018	Desk CAN	2023.09.15	10017C230915	No expiry date	FullVersion
231300000019	Desk CAN Pro	2023.09.15	10018D230915	No expiry date	FullVersion
231300000020	Desk CAN Pro	2023.09.15	10019D230915	No expiry date	FullVersion
241000000054	Desk CAN Pro	2024.08.10	10001D240810	No expiry date	FullVersion
99x000000000	Free Hardware	2023.09.15	000000000000	No expiry date	Developer
*99x000000000	All devices	2023.09.15	Software feature	No expiry date	Log file playback viewer
*99x000000000	All devices	2023.09.15	Software feature	No expiry date	TCP/IP interface access
*99x000000000	Supported devices	2023.09.15	SW/HW feature	No expiry date	Standalone message sending



Failure to install a valid license or match a valid serial number from your hardware module will prevent access.



## 8. Installation Complete!

Please enjoy our product.

## 9. Application Usage

When using the selected 3rd party tool, the first step in each case is to select or initialize the hardware through their unique interface. When selecting the hardware, look for "**SLSS-SeRoSys J2534 PassThru API (J2534)**" and then choose the desired channel

## 10. Technical Support / Troubleshooting



If the COM port of the dongle changes or multiple dongles are used on the same PC which causes variable COM ports, the configuration **MUST** be run again to set and save the new COM port or it will not function.

Should you have any issues, please reach out to technical support here:

<https://serosys-tech.com/tech-support/>