User Manual

Prerequisites:-

1. CP2102 Serial Port Drivers must be installed before using the tool.

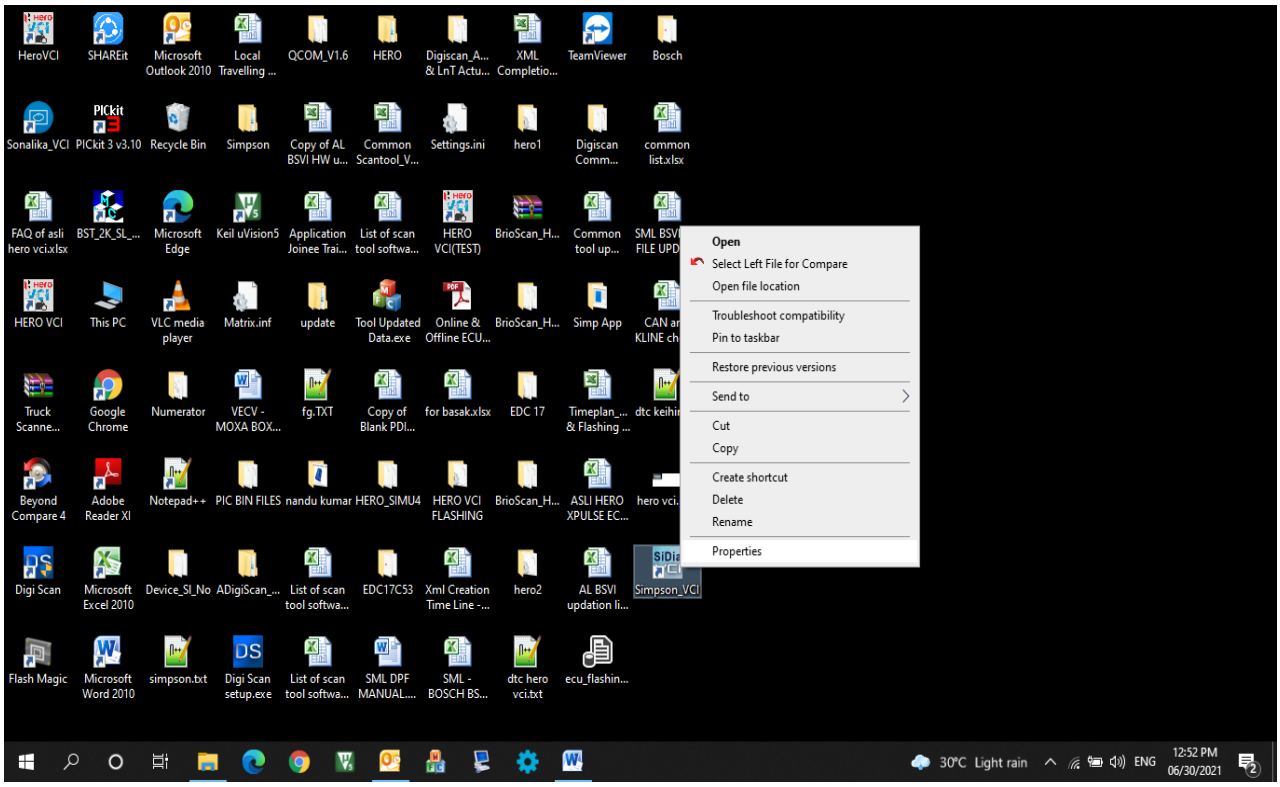
Step 1: Connect SiDia Tool to the System using USB Cable and Connect the OBD Cable to the Vehicle.

Step 2: Open the SiDia Diagnostic Application.

Step 3: Offline Mode to be used only if the User need to update the firmware or transfer the dataset without connecting to the ECU.

Step 4: Select the COM Port. Enter the Username & Password and Click on Login. If Username & Password is valid then 'Login Successful' message is popped up else 'Invalid Username or Password' message is displayed.
If the selected COM is not valid then 'Invalid COM Port. Please Select Correct COM Communication Port…!' message is displayed.

Note: 1. For the first time Login right click on the Simpson_VCI icon.
2. Go to the properties select compatibility options.
3. In compatibility options tick the box of **"Run this program as an administrator".**
4. Click on Apply and then click OK.


HeroVCI
SHAREit
Microsoft Outlook 2010
Local Travelling ...
QCOM_V1.6
HERO
Digiscan_A... & LnT Actu...
XML Completio...
TeamViewer
Bosch
Sonalika_VCI
PICkit 3 v3.10
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Settings.ini
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Digiscan Comm...
common list.xlsx
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Microsoft Edge
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HERO VCI(TEST)
BrioScan_H...
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SML BSVI FILE UPD
HERO VCI
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VLC media player
Matrix.inf
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Tool Updated Data.exe
Online & Offline ECU...
BrioScan_H...
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dtc keihi
Beyond Compare 4
Adobe Reader XI
Notepad++
PIC BIN FILES
nandu kumar
HERO_SIMU4
HERO VCI FLASHING
BrioScan_H...
ASLI HERO XPULSE EC...
hero vci
Digi Scan
Microsoft Excel 2010
Device_SI_No
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Xml Creation Time Line -...
hero2
AL BSVI updation li...
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SML - BOSCH BS...
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ecu_flashin...
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Select Left File for Compare
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Troubleshoot compatibility
Pin to taskbar
Restore previous versions
Send to
Cut
Copy
Create shortcut
Delete
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30°C Light rain
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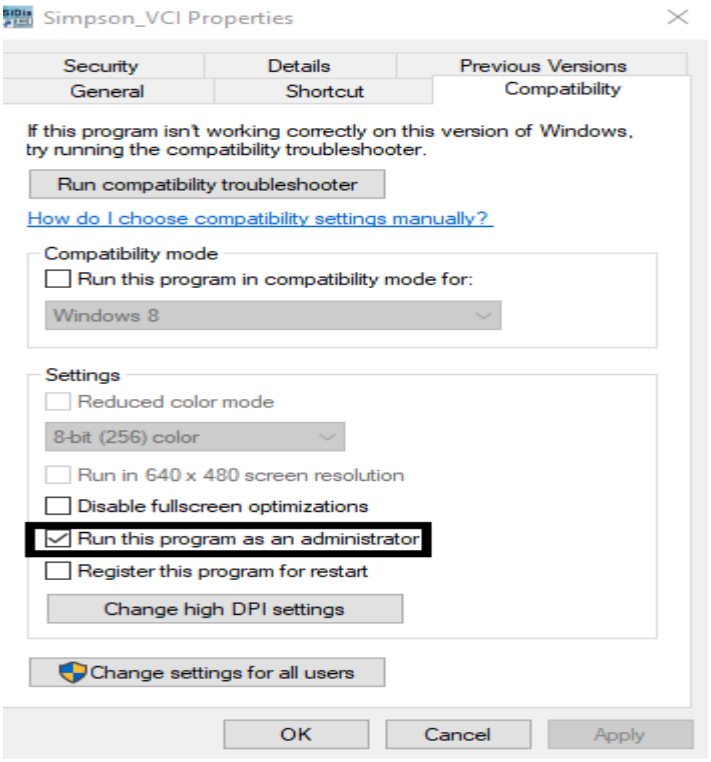
06/30/2021


Simpson_VCI Properties
Security
Details
Previous Versions
General
Shortcut
Compatibility
If this program isn't working correctly on this version of Windows, try running the compatibility troubleshooter.
Run compatibility troubleshooter
How do I choose compatibility settings manually?
Compatibility mode
Run this program in compatibility mode for:
Windows 8
Settings
Reduced color mode
8-bit (256) color
Run in 640 x 480 screen resolution
Disable fullscreen optimizations
Run this program as an administrator
Register this program for restart
Change high DPI settings
Change settings for all users
OK
Cancel
Apply

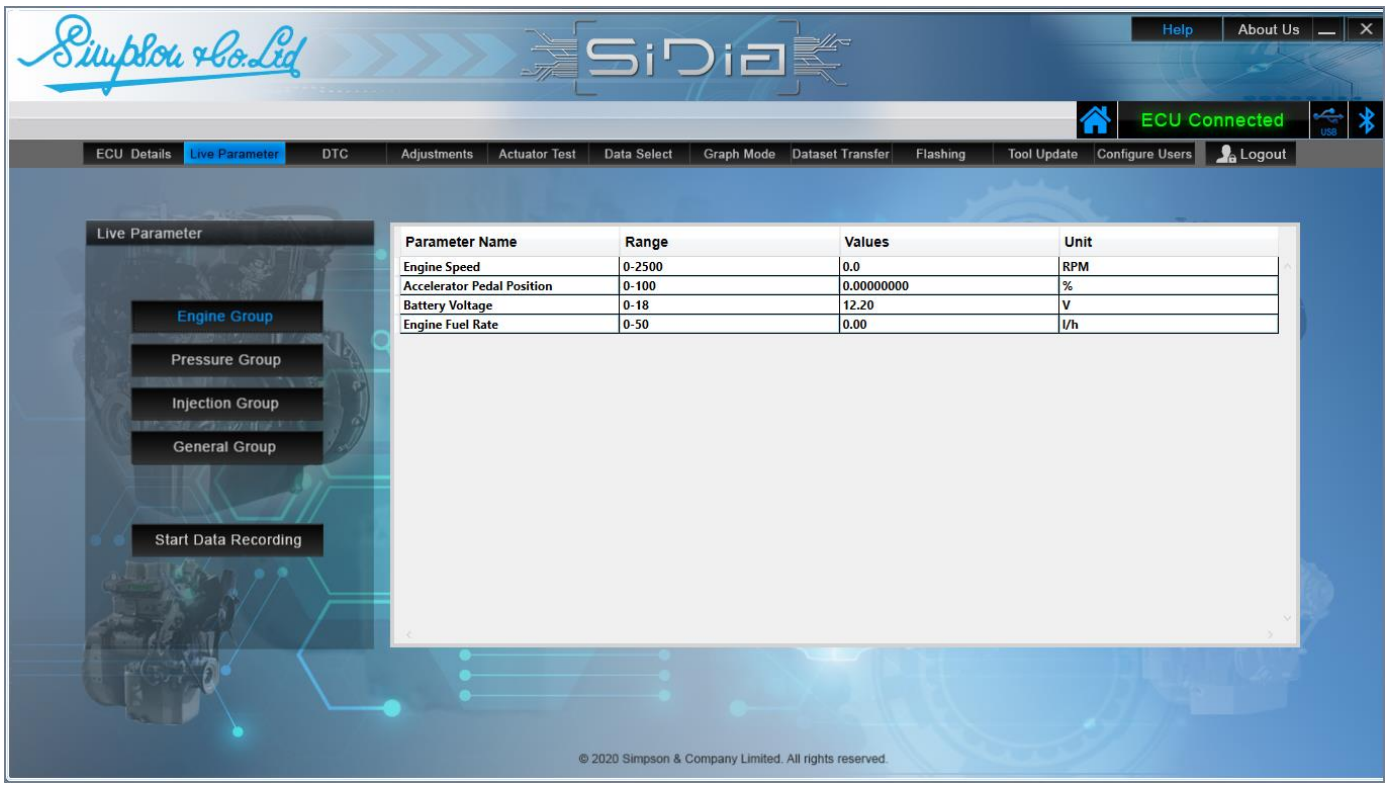
Step 5: Select the ECU Type- Bosch MD1CS162 to start the communication with the ECU. If the Communication is established then ECU Details page is loaded. If the ECU is Not Connected/Ignition is Off then 'Failed ECU Communication…! Please Turn ON Ignition and Try Again.'
Note: Please make sure the Ignition is turned ON before proceeding.

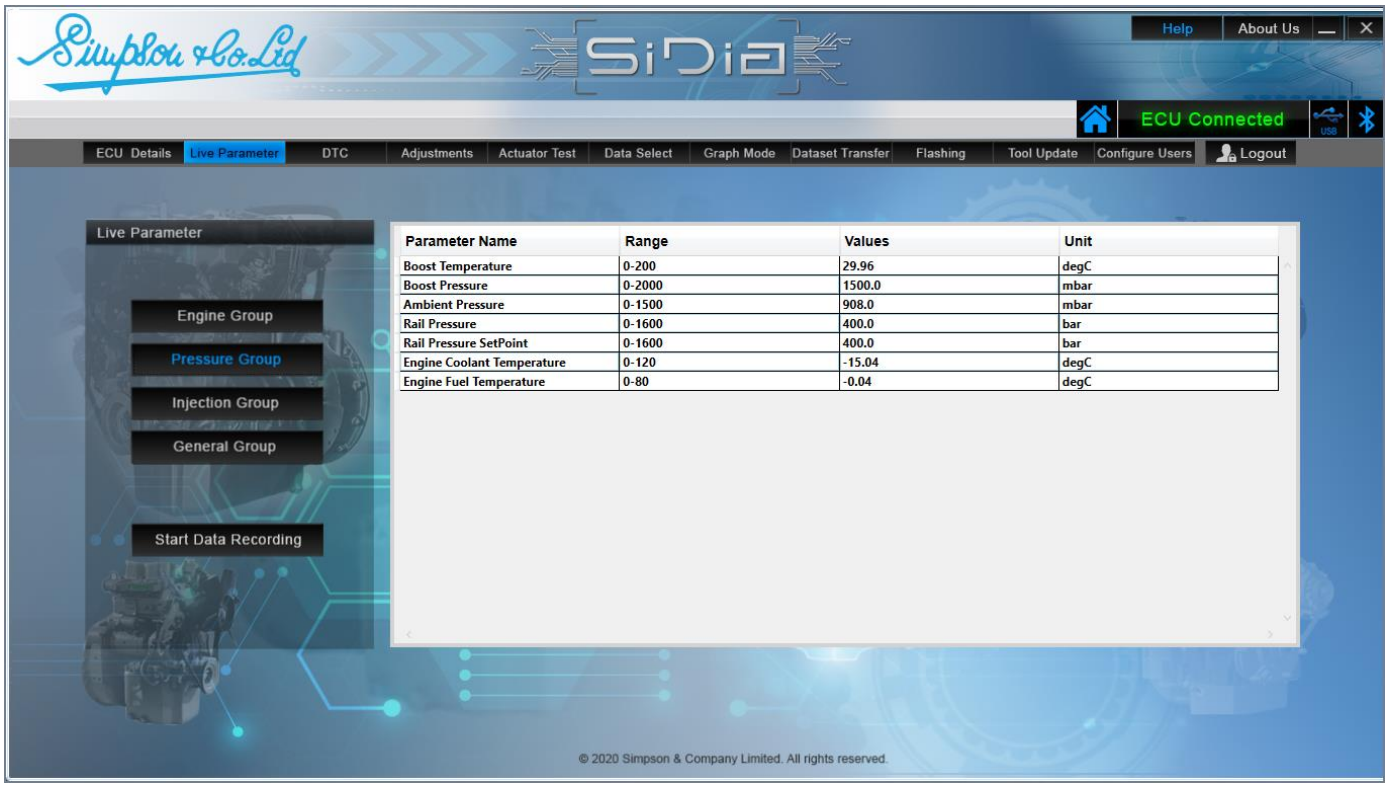
ECU Details:

Step 6: On successful connection, ECU Details page is loaded.

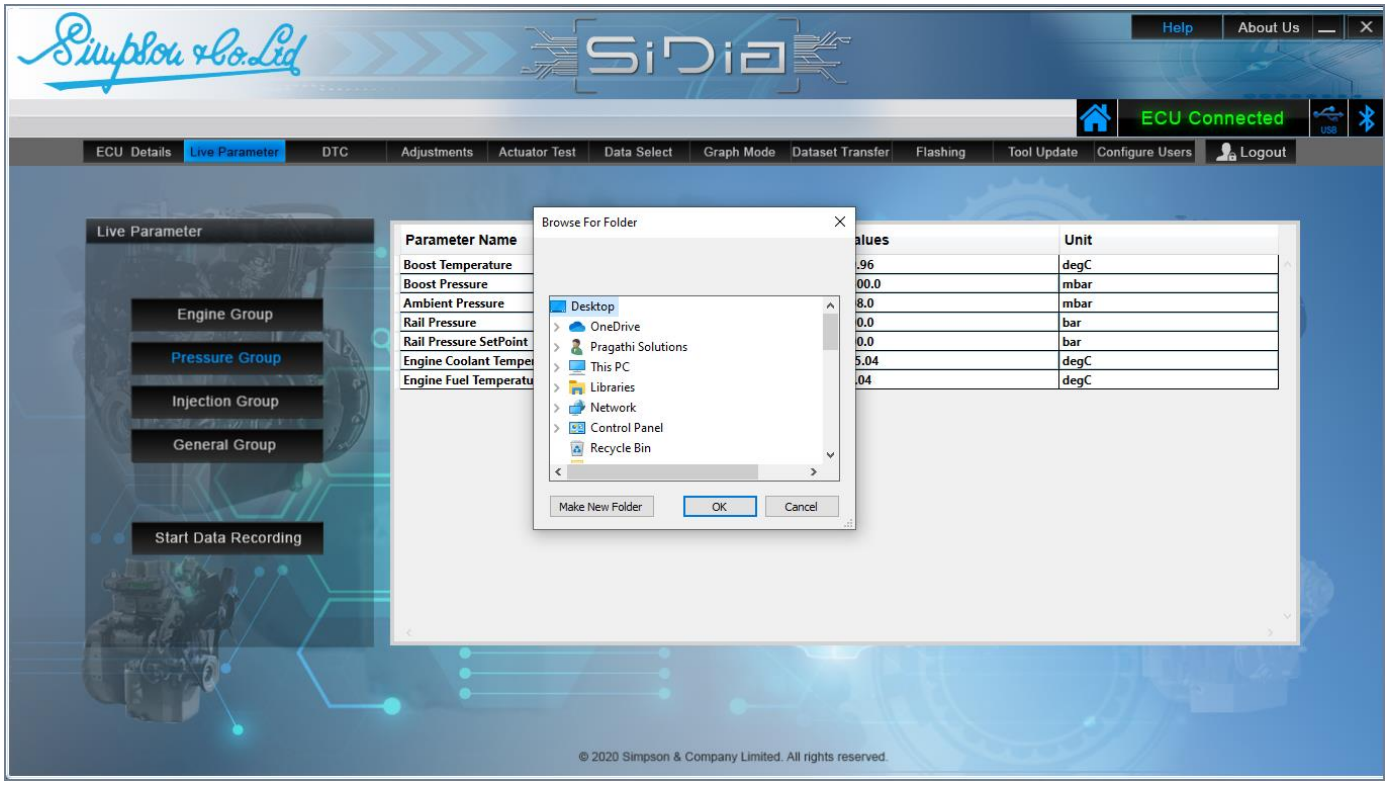
Live Data:

Step 7: Click on Live Data (Tab) to view the Vehicle Live (Read) Parameters. Select the Live Parameter Group from left pane.

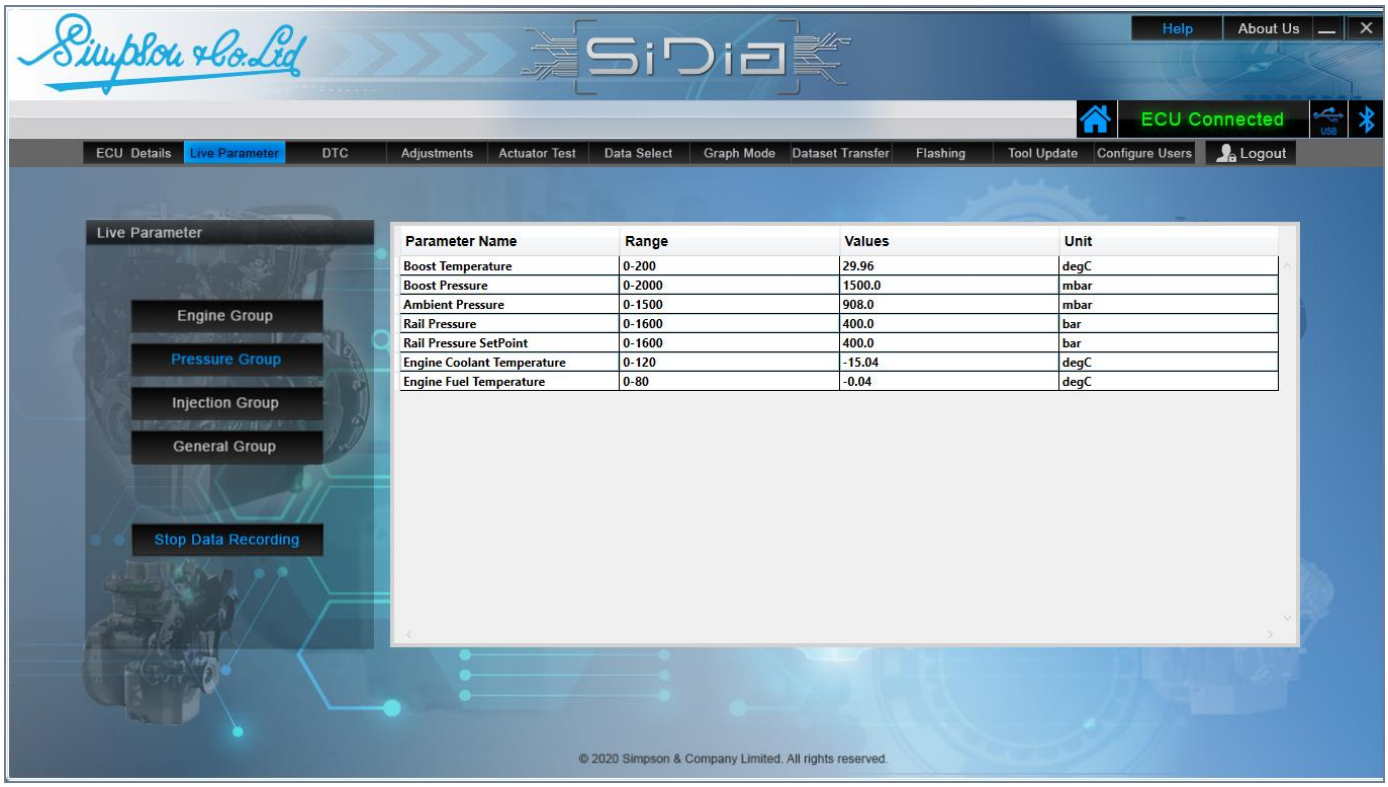




Step 8: To record the Live Parameters Reading, click on Start Data Recording and select the path to create the log file and click Ok. The data is logged and saved in .csv format which can be viewed using Excel.



To Stop the Data logging click on Stop Data Recording as shown in the image below.



DTC:

Step 9: Select DTC Menu to Read DTC (Diagnostic Trouble Codes), Clear DTC, and View Cause & Remedial Actions for the logged errors.

Step 10: Click on Read DTC button to view the Errors/Trouble Codes in the Vehicle.

Step 11: Click on Clear DTC button to Clear the DTC. On Successful Clearing attempt the application displays the pop up message as ‘DTC Cleared Successfully’.

Click Ok and Select Read DTC to read back the current DTC Codes.

Note: If the previous DTC still exists then check the physical connections.

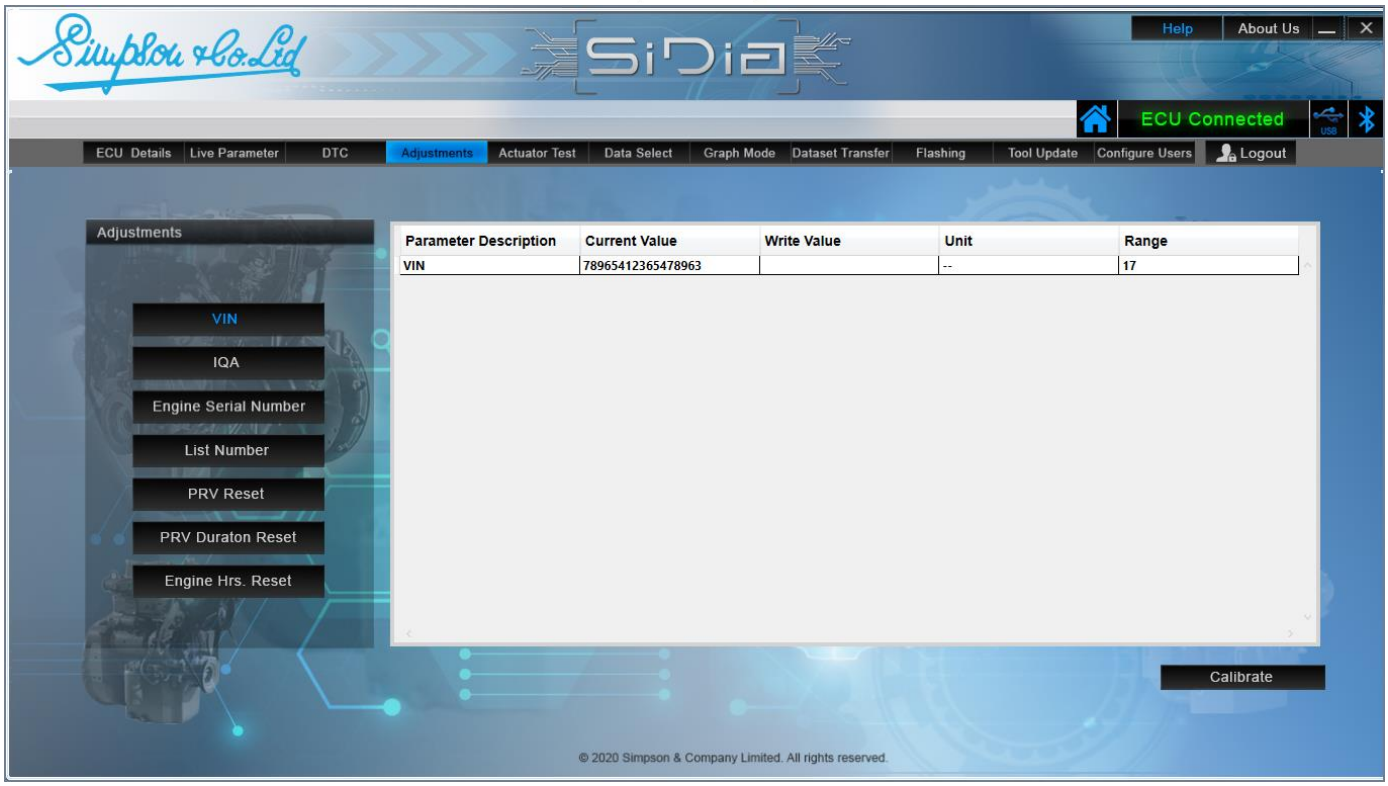
Step 12: Cause & Remedial Action for the Error can be viewed from the Cause & Remedies Column for the respective Error Code as shown in the image below. Double Click on the respective cell to view the Cause & Remedy for the selected P-Code.

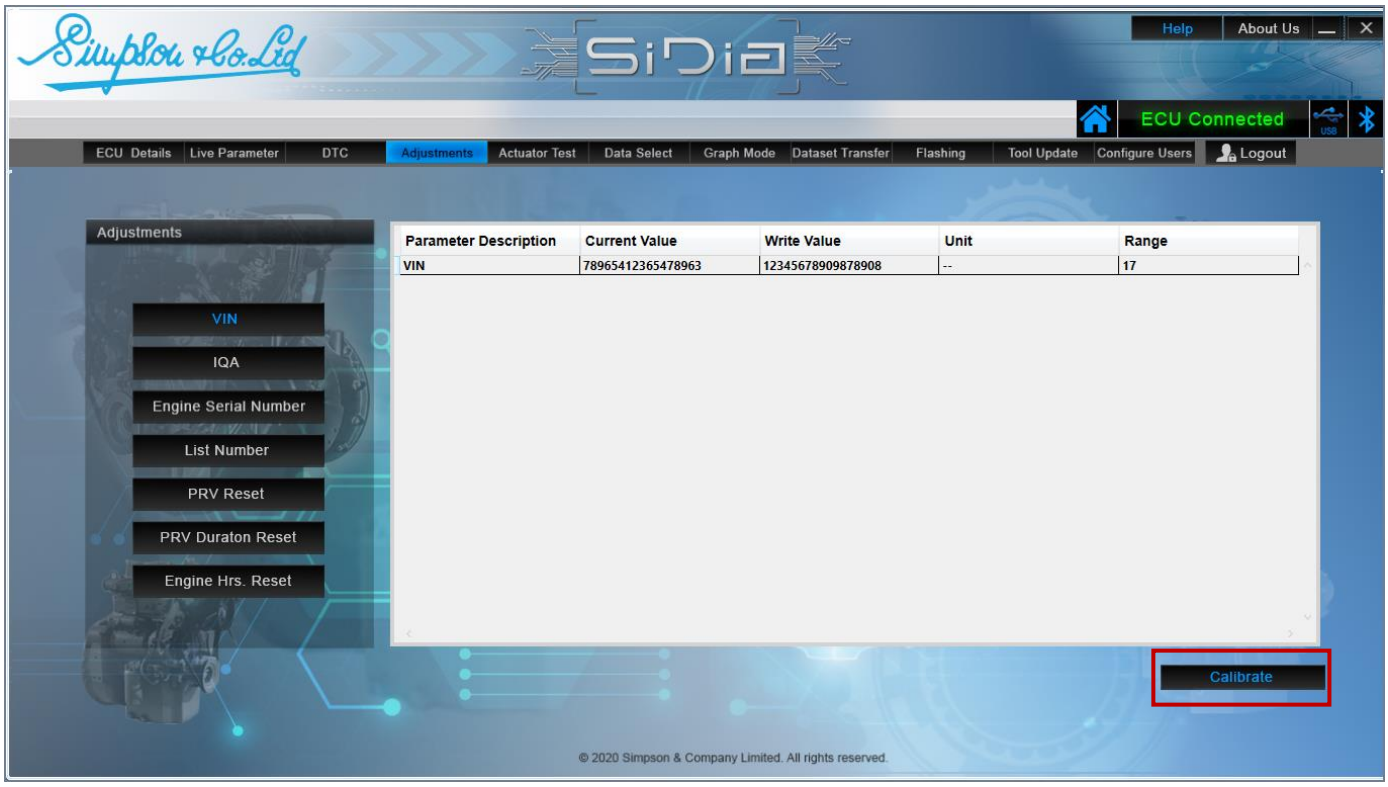
Adjustments:

Step 13: Select Adjustments Menu to write VIN, Injector Codes, Engine Serial No., List No., PRV Count Reset & PRV Duration Reset

VIN Reading/Writing:

To write VIN select the VIN option in left pane. On selection the application displays the present value if available.





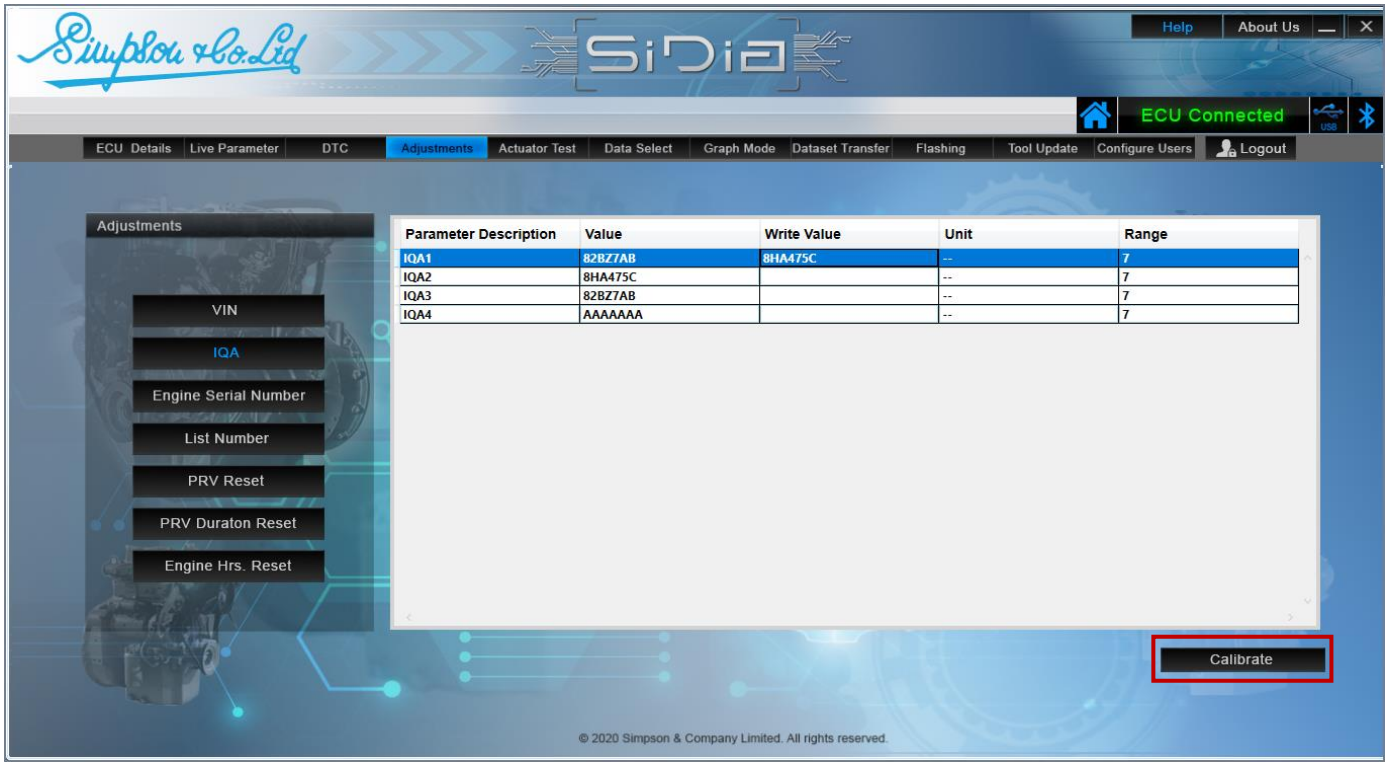
Click on respective Write Value Column to enter the value that needs to written in the ECU. Enter the Data in the field and Click on Calibrate.

If the value is written successfully in the ECU then ‘VIN Write Success’ message is displayed else the respective Negative Response message will be displayed.

Reading/Writing Injector Codes:

Step 14: Select IQA option to read/write the Injector Data from/in the ECU. The current Injector Values available in ECU Memory is displayed in Current Value Column.

To write the Injector Codes enter the data in Write Value Column & click on Calibrate.

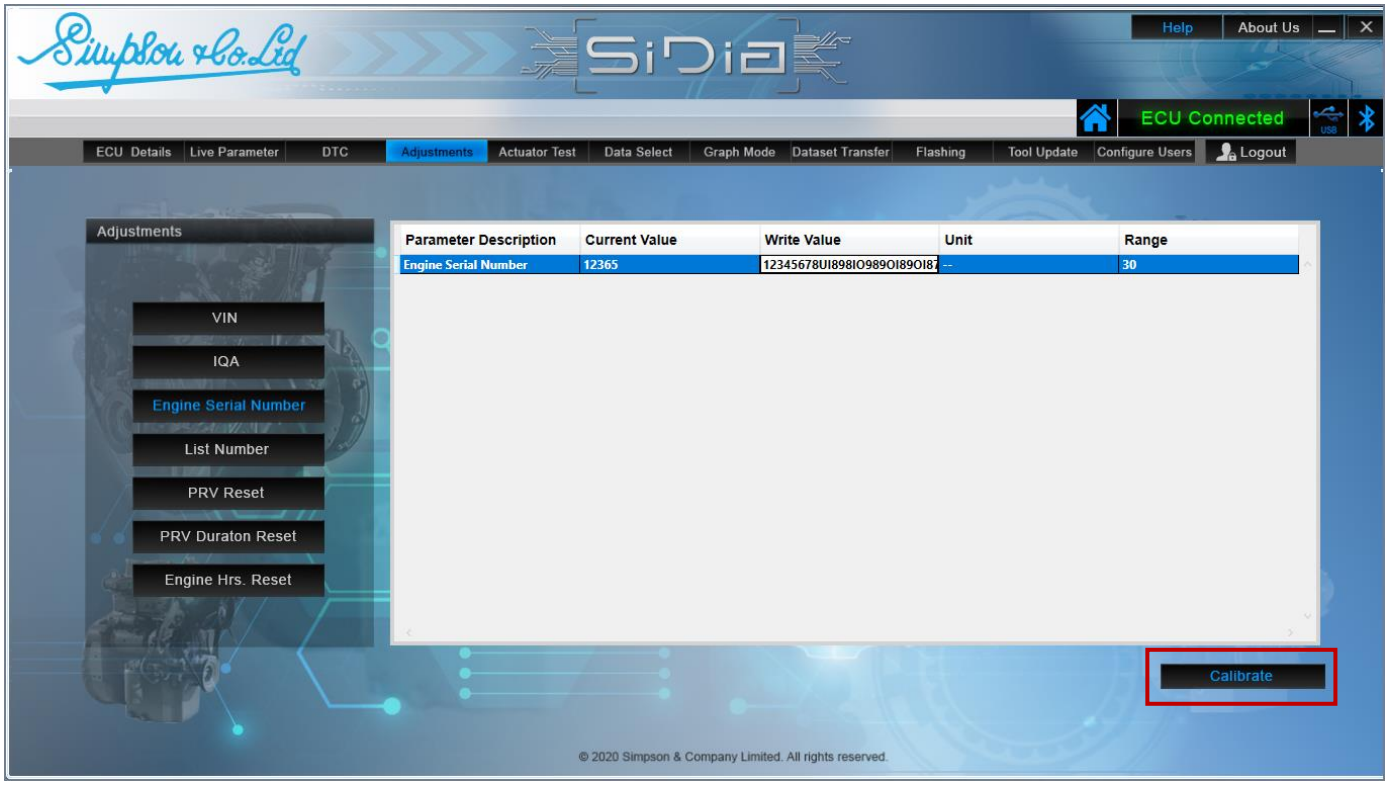


On Successful Writing 'IQA Write Success pop up message is displayed else the respective Negative Response message will be displayed.

Reading/Writing Engine Serial No.:

Step 15: Select Engine Serial Number option to read/write the Engine Serial No. The current Engine No. is displayed in Current Value Column.

To write the Engine Serial Number enter the data in Write Value Column & click on Calibrate.



On Successful Writing ‘Engine Serial Number Write Success’ pop up message is displayed else the respective Negative Response message will be displayed.

Reading/Writing List Number.:

Step 16: Select List Number option to read/write the List Number. The current List No. is displayed in Current Value Column.

To write the List Number enter the data in Write Value Column & click on Calibrate.

On Successful Resetting ‘List Number Write Success” pop up message is displayed else the respective Negative Response message will be displayed.

PRV Count/Duration Reset:

Step 17: Select PRV Reset/PRV Duration Reset option to reset the PRV Count/PRV Duration. The current PRV Count/PRV Duration available in ECU Memory is displayed in Current Value Column.

To Reset the Count, click directly on Calibrate.

Note: PRV Count and PRV Duration can be reset only to 0.

On Successful Resetting ‘PRV Reset Success/PRV Duration Success pop up message is displayed else the respective Negative Response message will be displayed.

Engine Hrs. Reset:

Step 18: Select Engine Hrs. Reset option to reset the Engine Hrs. The current Engine Hrs. Reset available in ECU Memory is displayed in Current Value Column.

To Reset the Count, click directly on Calibrate.

Note: Engine Hrs. Reset can be reset only to 0.

On Successful Resetting 'Engine Hrs Success pop up message is displayed else the respective Negative Response message will be displayed.

Actuator Test

Step 19: Select Test Actuators menu to perform EGR Actuation Check.

Enter the Data in the Input Value Text Box and click on start to run the Test.

If the Actuator is started successfully then 'Test Activated' pop up message is displayed and if the Test Preconditions are not met or receive any Negative Response from ECU then respective Negative Response pop up message is displayed.

Click on Stop button, to stop the test. Test Deactivated message is displayed on stopping the test.

Data Select:

Step 20: Data Select is used to view Read Parameters Data based on Custom Selection.
Note: Maximum 15 Parameters only can be selected.

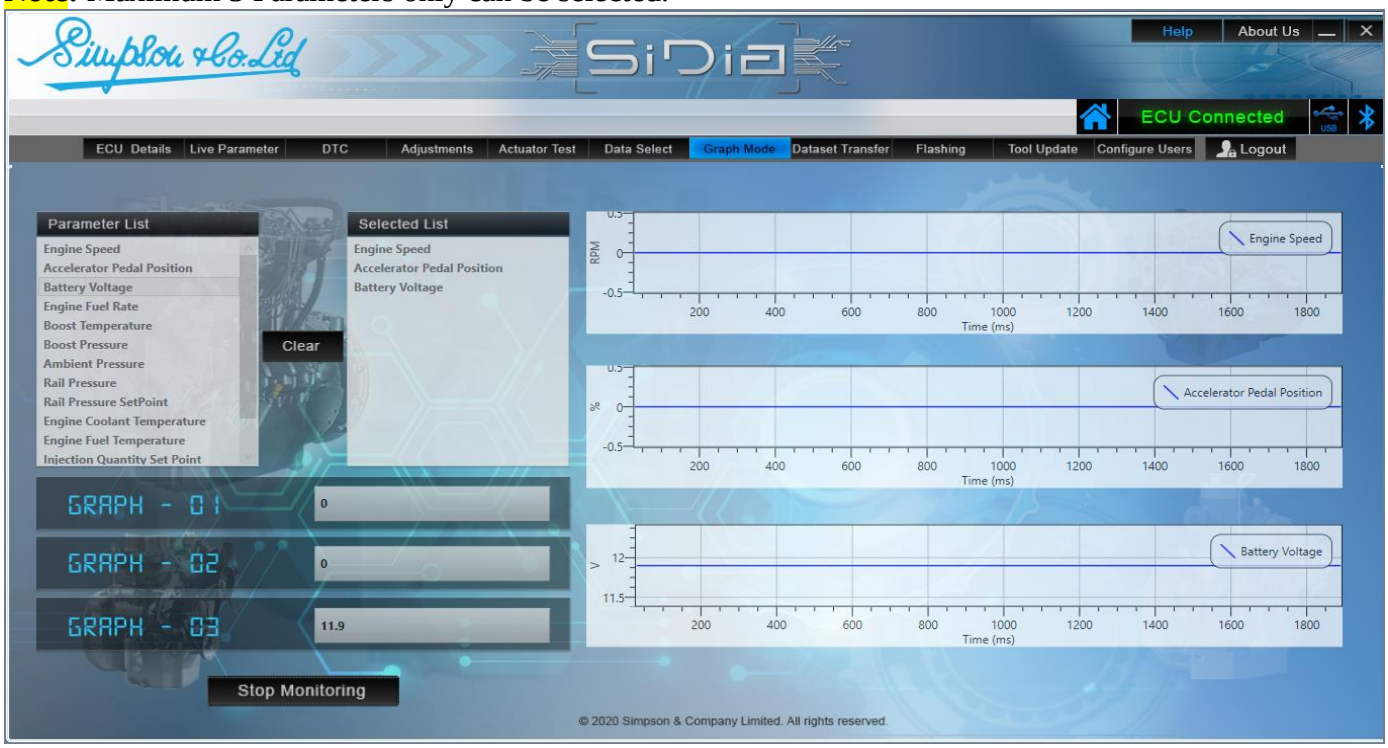
To select the parameters double click on the parameter. The Selected parameter list is displayed in the Selected List box as shown in the image below.

After selection, click on Start Data Monitoring button to view the data.

To record the Parameters Reading, click on Start Data Recording and select the path to create the log file and click Ok. The data is logged and saved in .csv format which can be viewed using Excel.

Graph Mode:

Step 21: Select the Graph Mode Menu to view the parameters in Graphical Representation.
Double Click on the parameter to select. Maximum only 3 parameters graphical representation can be viewed.
Click on Start Monitoring button to view the graph and Stop Monitoring to stop.
Note: Maximum 3 Parameters only can be selected.

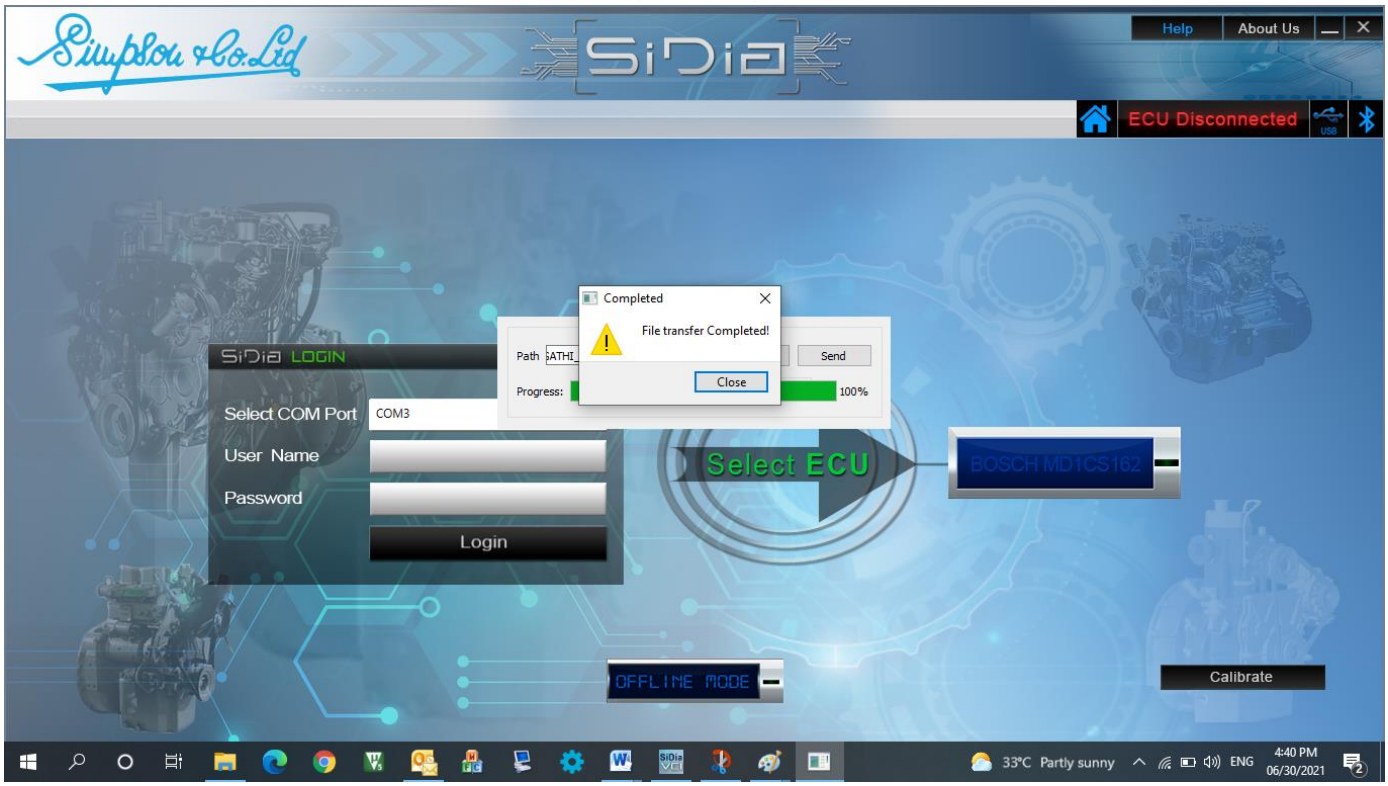


Dataset Transfer:

Step 22: Select Dataset Transfer Menu to transfer the Dataset to VCI Memory. The Available files list will be showed in the grid as shown in the image below. If files are not available then the pop up message 'No Files Available' is displayed.

To Transfer the Dataset, click on Browse File.
Select the Dataset File from the system that is to be transferred. Click on Transfer File to start transferring.

The application is logged out automatically while the Dataset Transfer operation is performed.
On Completion of Dataset Transfer the ‘File Transfer Completed’ message pop up is displayed.



Note: Once you enter Dataset Transfer or Flashing Menu, you cannot go to any other Menu. You need to logout the application and log in again to enter in Diagnostic Mode.

Flashing: Two types of flashing can be performed:

1) SD Card Flashing.
2) System Based Flashing.

1) SD Card Flashing.

Step 23: To Flash the ECU select the Flashing Menu. Then select “SD card flashing”
Available Files in SD Card will be displayed in the application. If the files are not available transfer the files first and then perform the Flashing operation.
Select the file from the list that needs to be flashed.

Step 24: Click on Start Flashing. Flashing Process is being displayed in the Flashing Status window.

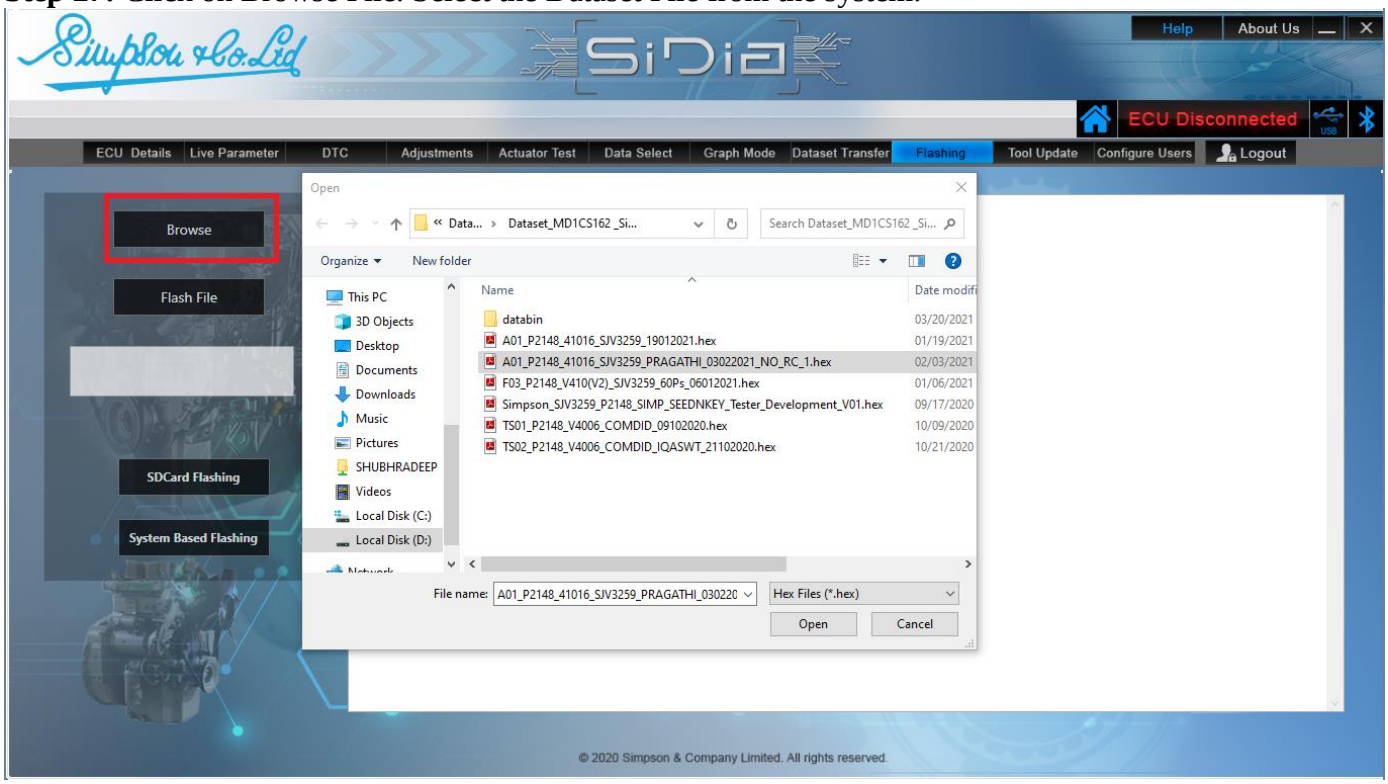
Step 25: Once Flashing is completed ‘Flashing Success’ message is displayed and the application will log out.

2) System Based Flashing.

Step 26: To Flash the ECU select the Flashing Menu. Then select “System Based flashing”.

Note: Before selecting the system based flashing, ensure that the dataset which you are going to flash that dataset should be available in your system. If not available kindly copy the dataset on your system.

Step 27: Click on Browse File. Select the Dataset File from the system.

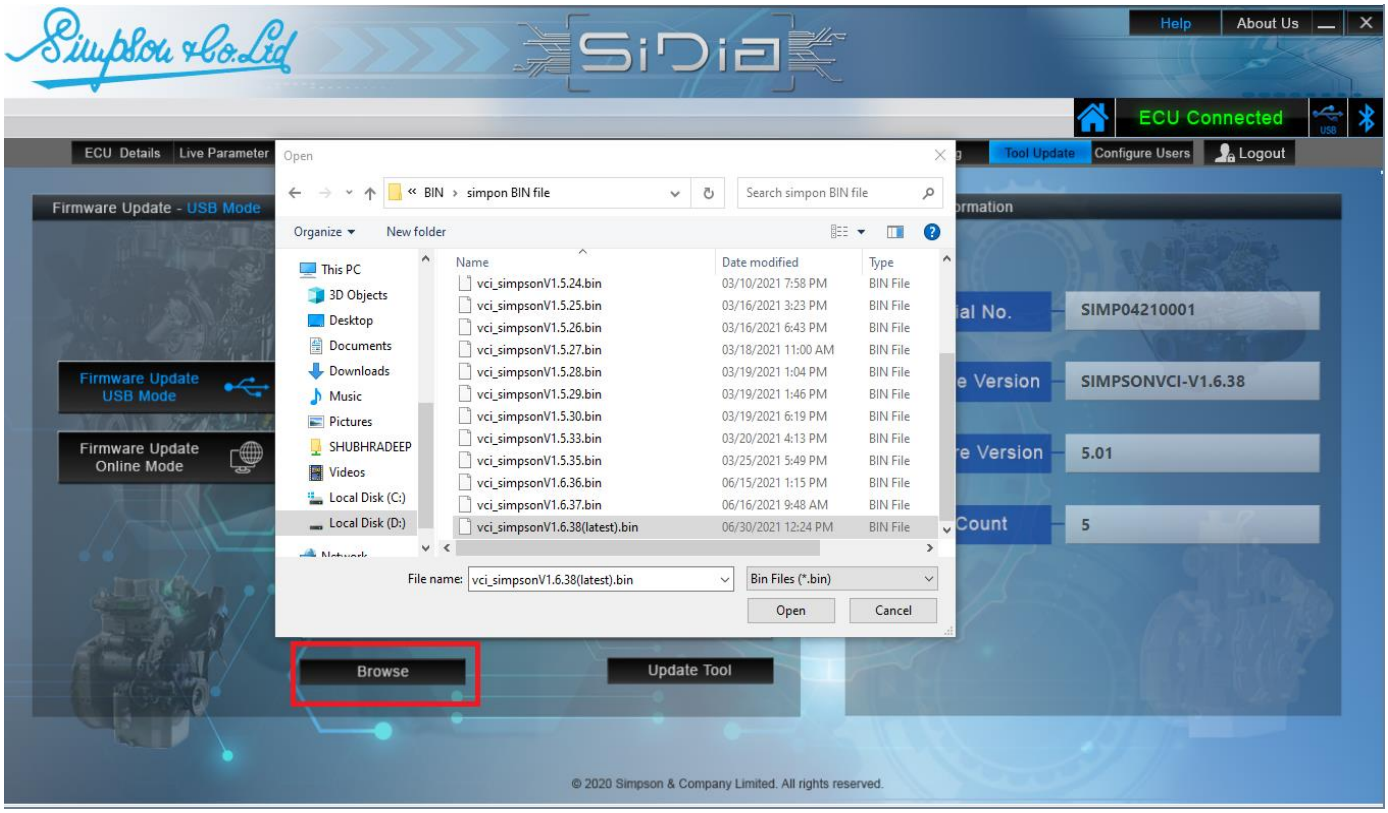


Step 28: Click on a Flash File to start the flashing. Flashing Process is being displayed in the Flashing Status window.

Step 29: Once Flashing is completed “Flashing Success” message is displayed and the application will log out.

Tool Update: Select Tool Update Menu to Update the VCI tool.

Step 30: Click on Browse File. Select the .bin file from the system and click Open .



Step 31: Click on Update tool. Tool updation is in progress and is being displayed in the Update tool window.

Step 32: Once Tool update is completed "RESET Success. Please Login Again" message is displayed and the application will log out.

Configure User:

Step 33: To create New User Login's click on Configure User.

Step 34: Enter the Details in User Creation Menu as shown in the image below.

Step 35: The Admin user has the rights to decide which user has to be given the Access for Adjustments or Flashing or Dataset Transfer. Selected Checkboxes Menu Access will be provided to the user.
Click on Create User to add the login. “User Created Successfully” pop up message is displayed.

User id with User@123456 password can only allow accessing the IQA writing,

Step 36: To Modify the existing User. First select the User from the grid which is to be modified as shown in the image below.

Modify the details and click on Modify User. “User Modified Successfully” pop up message is displayed.

Step 37: To Delete the existing User, first select the User.

Click on Delete User to delete. User Deleted Successfully pop up message will display.