OBD Capability GUI

Installation Requirements

And

Instructions

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**High Level Overview of Requirements:**

1. You will need one of the following software installations
   1. Matlab R2010a (32- or 64-bit) with the Statistics and Database toolbox
      1. MATLAB & ALL TOOLS (US USERS ONLY) 32-BIT – R2010a PSP 4.1
      2. MATLAB & ALL TOOLS (US USERS ONLY) 64-BIT – R2010a PSP 4.1
   2. Matlab R2013b (32- or 64-bit) with the Statistics and Database toolbox
      1. MATLAB & ALL TOOLS (US USERS ONLY\_X32) – R2013B + PSP 7.0
      2. MATLAB & ALL TOOLS (US USERS ONLY\_X64) – R2013B + PSP 7.0
2. Have your wwid added to the access permission list of the HD Capability server
   1. Send e-mail request to Srivathsan Seshadri for access

**Installation**

**Checking Requirements**

If you already have Matlab installed on your computer, do the following:

1. Launch Matlab
2. Type the following at the command prompt: ver
3. Make sure the version is R2010a or R2013b, like this
   1. MATLAB Version 7.10.0.499 (R2010a**)**
4. Make sure both of these toolboxes are listed:
   1. Database Toolbox
   2. Statistics Toolbox

If you meet all of the above requirements, you have all the toolboxes needed to run the Capability GUI. Otherwise, you can request one of the following Matlab installations from the software shelf (<http://softwareshelf.cummins.com/>) that does have these toolboxes:

|  |  |  |
| --- | --- | --- |
| **Computer Type** | **Application Name** | **Version** |
| Laptops | MATLAB & ALL TOOLS (US USERS ONLY) 32-BIT | R2010a PSP 4.1 |
| MATLAB & ALL TOOLS (US USERS ONLY\_X32) | R2013B + PSP 7.0 |
| Workstation | MATLAB & ALL TOOLS (US USERS ONLY) 64-BIT | R2010a PSP 4.1 |
| MATLAB & ALL TOOLS (US USERS ONLY\_X64) | R2013B + PSP 7.0 |

**Database Access**

Once you have the software required, you will need to request access to the capability database. Just like with Calbert, this is handled outside of the Help Desk. Please send an e-mail to Srivathsan Seshadri/Auto/Cummins with your WWID to request access to the database. If you successfully launch the GUI without access permission, you will see a warning message noting this.

**Files Needed**

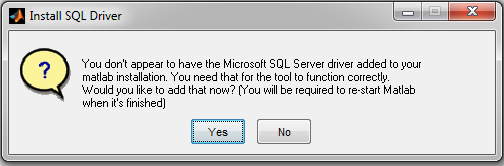
The latest version of the GUI will be stored here so you will need access to the DL\_Diag directory :

[\\CIDCSDFS01\EBU\_Data01$\NACTGx\common\DL\_Diag\Data Analysis\OBD Capability GUI](file:///\\CIDCSDFS01\EBU_Data01$\NACTGx\common\DL_Diag\Data%20Analysis\OBD%20Capability%20GUI)

The Matlab code and all required files are contained in the **CapabilityGUI** folder. The Matlab code should stay in this directory and will be run from here.

Copy the **RunCapabilityGUI.m** file to any location of your choice on your local machine. You should use the file to launch the GUI. It will check the version of Matlab you have, if you have the correct tool boxes, and if you have the SQL driver installed into Matlab. Then it will change your working directory to the network path and launch the latest version of the GUI.

Assuming that you have the correct version of Matlab (as stated before), the first time you run **RunCapabilityGUI.m**, you will be prompted if you want to install the SQL driver into Matlab. If you have multiple versions of Matlab installed, you will be prompted to do this the first time you run the file in each version of Matlab. If you select No the program will terminate. Select Yes to add the driver to Matlab. You will be prompted to restart Matlab in order for the changes to take effect.



**Start the GUI**

If you’ve completed the above, running the **RunCapabilityGUI.m** file again should result in Matlab passing all of the checks in the code, and then the GUI should open.

Please see the **Capability GUI User Manual.docx** file for instructions on how to use the GUI.