Pacific Capability GUI

Installation Requirements

And

Instructions

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April 14, 2014

**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:

[\\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. Copy the entire contents of the **CapabilityGUI** folder from the network into a local directory of your choosing on your machine. It is preferred to dedicate a separate folder to contain just the Capability GUI files so nothing else will interfere with it.

**Install SQL Driver**

In order for the GUI to be able to communicate with the SQL server, you’ll need to add the Microsoft SQL Server java drivers to the Matlab’s java classpath. This must be done before launching the GUI for the first time; otherwise an error will be thrown.

1. Launch Matlab
2. Set the present working directory to the location of the **CapabilityGUI** folder you copied to your local machine. This folder contains the **InstallSQLDriver.m** file. Do **NOT** do an **Add Path**
3. Type InstallSQLDriver at the command window and hit enter
4. You will be prompted yes or no if the current working directory is the location of the **InstallSQLDriver.m** file. This is important as the **sqldriver** folder will also be contained here and needs to be copied into the Matlab root directory
5. If correct, type y and press enter, otherwise enter n and change your working directory
6. The script will add the proper files and references to your Matlab installation, will indicate if it was successful or not, and prompt you to restart Matlab
7. Please close Matlab so the changes will take effect the next time Matlab is loaded

**Start the GUI**

In order to use the GUI, you will need to run the **CapabilityGUI.m** file.

1. Launch Matlab
2. Change the present working directory to the local copy of the **CapabilityGUI** folder that you copied from the network that contains the **CapabilityGUI.m** file.
3. Type CapabilityGUI at the command line and hit enter
4. This should launch the GUI

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