**Configuring a PC for TRIM3/ATTIS Development Work**

last updated February 4, 2021

**Network Setup**

* Register for TRIM by going to <http://trim.urban.org/Registration> if you do not already have an account. At the time of registration, request that you be placed in the “UIUser” group and that you are registered on all three database servers--the ASPE-TRIM server (trim64-dev-db), the public server (trimdb02) and the ATTIS server (trimdb03).
* Ask a systems engineer to set up login accounts for you on all four application servers—Cybele, Boreas, ATTIS and ATTIS2—using the username “adminxx” where “xx” represents the first and last initials of your name.
* Also ask the systems engineer to add your adminxx name to the administrators group (a Computer Management option) on each of the application servers.
* Map to the D: drives of all application servers. You may also choose to map to the ASPE-TRIM server’s C drive. Doing so will permit access to OutOfModel.csv files stored in the C: drive scratch folder.
* Ask a TRIM3 web programmer to add your computer’s internal address to the **getPersonalServer** function in d:\inetpub\wwwroot\_prod\Common\BasicObject.php and to the **personalServers** array in d:\inetpub\wwwroot\_prod\Common\PageObjects.php on each of the application servers. The internal address will begin with “IBP” if you are in the IBP center or “IT” if you are in TDS.

**Installations**

* Obtain Tech assistance to install *Microsoft Visual Studio 2015* software on a standard Urban Windows 10 workstation or laptop.
* Download and install *Microsoft Visual C++ 2015 Redistributable* available at this [link](https://www.microsoft.com/en-us/download/details.aspx?id=48145).
* Obtain and install a MySQL 64-bit ODBC ANSI driver version 8.0 at this [link](https://dev.mysql.com/downloads/connector/odbc/).
* Install a GUI MySQL tool of your choice. Tech has purchased a license for 5 copies of SQLyog Enterprise edition. Separately, IBP has purchased a single license, bringing the total number of SQLyog licenses to 6. If all licenses are in use, it will be necessary to purchase another one.
* Establish SQLyog (or other tool) connections to the database servers, currently Trim64-dev-db, TRIMDB02 and TRIMDB03. Obtain connection details from the Lead TRIM3 Programmer.

**TRIM3 Source Files**

* Copy the following folders from the Source folder on the ASPE-TRIM application server to your D: drive:
	+ TrimExe
	+ TrimSim
	+ Release

[The TrimExe folder contains the latest version of the TRIM3 frame; TrimSim contains the source code of all the simulation modules, though possibly not the latest versions; and the Release folder contains the release tool that is used to release and retrieve different versions of TRIM3 simulation code.]

* Recompile the TrimExe solution in both release and debug modes.
* Modify “DLLDir” under “[Connectivity]” in Release.ini to point to the drive you have mapped to the Trim3Svr folder on the “D” drive of the ASPE-TRIM server.

**ODBC Data Sources**

Install version 8.0 of the MySQL ODBC connector. This is a safe location for the download: <https://dev.mysql.com/downloads/connector/odbc/>

Select the Windows operating system, 64bit for platform and the MSI installer.

Configure the ODBC connector with the following System DSN connections.

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| --- | --- | --- | --- | --- | --- |
| **Data Source Name** | **TCP/IP Server** | **User** | **Password** | **Database** | **Port** |
| TRIM3 | Trim64-dev-db (This can be changed as needed to specify TRIMDB02 or TRIMDB03.) | (obtain from lead TRIM3 programmer) | (obtain from lead TRIM3 programmer) | ctd | 3306 |
| CTD | Trim64-dev-db (This can be changed as needed to specify TRIMDB02 or TRIMDB03.) | Same as above | Same as above | ctd | 3306 |
| Trim64-dev-db | Trim64-dev-db | Same as above | Same as above | ctd | 3306 |
| TRIMDB02 | TRIMDB02 | Same as above | Same as above | ctd | 3306 |
| TRIMDB03 | TRIMDB03 | Same as above | Same as above | Ctd | 3306 |

**Environment Variables**

Click the START button at the bottom left of your computer screen. In the box, begin typing “environmental.” Select “Edit the system environmental variables.” Select “Environmental Variables.”

Add the following new system variables:

Variable: trim\_db\_pass Value: (ask lead TRIM3 programmer for the value to use)

Variable: trim\_db\_port Value: 3306

Variable: trim\_db\_user Value: root

Restart your computer so the new environmental variables will be recognized.

**Microsoft Visual Studio C++ Environment Settings**

Under the “Tools” tab, select “Options,” then “Text Editor,” then “C++,” then “Tabs,” and do the choose the following settings:
 - Smart indenting
 - Tab size: 2
 - Indent size: 2
 - Convert tabs to spaces