FILE TRACKING MANAGEMENT SYSTEM

Deployment of FTMS ON POSTGRESQL v1.0

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Document Control

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Table of COntents

[Prerequisites Setup 4](#_Toc453096761)

# Prerequisites Setup

The following steps should be followed to install the required packages for using the Entity Framework to build the PostgreSQL data model:

* Run the installer file *“Setup\_Npgsql-2.2.5.0-r3-net45.exe”* to add the PostgreSQL provider to the VS 2013 Data Source. NB: Visual Studio should be run as Administrator (if not signed on as an admin user) to see the PostgreSQL provider on the Data Source.
* Using the Package Manager Console in VS 2013,
* Type “get-package” to display the currently installed packages.
* If any version other than 2.2.5 of the *Npgsql.EntityFramework* is installed, then uninstall it as follows:
  + Type *“Uninstall-Package Npgsql.EntityFramework - <version\_number>”*
* If any version other than 2.2.5 of the *Npgsql.EntityFramework* is installed, then uninstall it as follows:
  + Type *“Uninstall-Package Npgsql.EntityFramework - <version\_number>”*
* If any version other than 6.0.0 of the *EntityFramework* is installed, then uninstall it as follows:
  + Type *“Uninstall-Package EntityFramework - <version\_number>”*
* Type “*Install-Package EntityFramework -Version 6.0.0*”
* Type “*Install-Package Npgsql -Version 2.2.5*”
* Type “*Install-Package Npgsql.EntityFramework -Version 2.2.5*”
* In the Solution Explorer window, right-click on the project and click Add -> New Item…

In the “*Add New Item Dialog*”, select *“ADO.NET Entity Data Model”,* provide a name for the model and click the “*Add*” button.

In the *“Entity Data Model Wizard”*,

* Select “*EF Designer from database*” and click the “*Next*” button.
* Click “New Connection”, select PostgreSQL Database from the data source options, and click the “OK” button.
* In the “Connection Properties window”, enter the database connection parameters and click the “Test Connection” button. If the connection is successful, click the “OK” button.
* Select the “Yes, include the sensitive data in the connection string” radio button.
* Ensure the “Save connection settings in App.Config as:” checkbox is selected.
* Provide a name for the entity and click the “Next” button. “FtmsEntities”
* Select the database objects to be included in the model and click the “Finish” button.
* If the Finish Button is not available with an error referring to the entity framework version, go back to the install steps. Uninstall Npgsql.EntityFramework and EntityFramework. The reinstall Npgsql.EntityFramework only. It will download a suitable version of EF on its own.
* In the worst case, unload all projects. Reinstall Npgsql.EntityFramework only. Build DAL once.

Under the *<Model\_Name>.edmx* file,

* Delete the 2 files ending with “.tt”.
* Right-click on the *<Model\_Name>.edmx* file and select “Open With…”
* In the “Open With” window, select “XML (Text) Editor and the “OK” button. If prompted to close any opened *<Model\_Name>.edmx* file, click the “Yes” button.
* Scrolled down to the bottom of the displayed XML *<Model\_Name>.edmx* file.
* Under the “DesignerInfoPropertySet” tag, change the value of the “CodeGenerationStrategy” from “None” to “Default”.
* Save the file
* The entities would be created under the Model.Designer.cs

In the Solution Explorer window,

* Right-Click on the “References” section of DAL project and select “Add Reference…”
* In the “Reference Manager” window (under “Framework” tab) select the “System.Data.Entity” assembler.
* Click the “OK” button.