

Manual: 2.2. Installation

The software installation is performed fully automatically by the installer program delivered to you by algorithmica technologies. There is nothing that you need to do other than provide the computer with an internet connection and execute the installer.

The installer will install the following programs

1. PostgreSQL: The database management software that will hold all the data.
2. pgAdmin: The administration console for PostgreSQL.
3. Ruby: The language behind the user interface.
4. Ruby on Rails: The framework in which the user interface is written.
5. Bundler: The package manager for Ruby on Rails.
6. Git: A versioning utility needed to obtain current versions of plug-ins.
7. Node.js: A javascript library needed for the user interface.
8. Sqlite: A database management software that will not be used but is an integral part of Rails.
9. SQL Server Support: Necessary Rails routines to allow connectivity to the database.
10. Rails DevKit: Necessary Rails routines to be able to compile some plug ins that are delivered in code form.
11. Gems: A large number of extensions to Ruby on Rails known as gems.
12. AI: The machine learning software by algorithmica technologies that performs the analysis behind the applications.
13. Softing OPC: The OPC client used to read live data uses the OPC toolkit produced by Softing AG for which algorithmica has a developer license.

All of these programs are licenced in a version of either the MIT, BSD or GNU LPGL licences. As such they may be used for commercial purposes without payment. All of these programs are used only for the purpose of storing data and presenting a user interface. All mathematical analysis is performed using software written by algorithmica technologies without the use of any third-party components.

The installer creates a new user account on the computer with the name "postgres" with password "admin". This account is important and will be used by the database server utility. Within the database, the installer will create a new user with the name "viewer" and the password "viewer".