

InnoSetup Windows Install (CR391 /EP-2037)

Problem Description

We currently package a Windows Install EXE using an old install tool. This is the main way we package Software Releases for The Enabler. This tool is no longer supported and makes maintenance of our install difficult.

After investigation of alternatives we selected InnoSetup to replace our current tool since:

1. It is being maintained and updated.
2. It supports a wide range of Windows Versions.
3. It is a flexible installer that we believe can do everything we need.

Proposal

To build a new install script using InnoSetup (a donationware Install tool) that provides the same features and functions as the current installer.

- Use a wizard style UI to guide the installer through the process.
- Allow for Server or Client configurations.
- Install run-time files required by Enabler.
- For the Server configuration:
 - Installs SQL Server Express (SQL2016, SQL2014, 2012 or 2008R2 editions) (if not already installed).
 - Creates the Enabler Database and populates it with default data (using SQL scripts)
 - Installs a Windows Device Driver.
 - Uses ODBCnfg.exe to configure Database (ODBC) connections.
 - Installs a range of binaries including two Windows Services.
 - Creates some Start Menu shortcuts.
- Can be run interactively or automatically (via command-line options).
- Test that:
 - The install works when run interactively.
 - The install works via command-line options.
 - Try the install on different versions of Windows – this could be tested at ITL.
 - After installation the product works (if possible).
 - The product can be uninstalled via the Windows Control Panel.

Resources

ITL will provide the following resources for the team:

- The current installer for comparison including supporting "Install Instructions" document.
- Collection of files to be packaged by the installer.
- The install script for the current install.
- Enabler Hardware (required to test the installed software works).
- Graphics files used in the current install UI/wizard. We may replace these as part of the installer upgrade project.
- Laptop or PC to test the install on.

Project Deliverables

Depending on their progress the team should deliver:

- An InnoSetup install project (with all the files required to compile it).
- Compiled setup EXE tested on available Windows versions.
- A draft "Install Instructions" document with screenshots of the new installer. We suggest you provide screenshots as PNG files also.
- Indication of any areas not completed.
- OPTIONAL: If you plan to use a Version Control System for the install project (source) files, we recommend using Mercurial since this is our main VCS.

Each of these could be delivered in incremental versions as the work is done.

Glossary

Donationware	See https://en.wikipedia.org/wiki/Donationware
Enabler	A PC-based Forecourt Control System developed by ITL. See https://integration.co.nz/products-enabler.php
Inno Setup	See http://www.jrsoftware.org/
Software Release	A collection of (many) components that make up a specific version of a product. In our case a collection of EXE, DLL, OCX, JAR, and resource files as well as batch scripts, SQL files and web assets (ASPX, CSS, PNG, GIF, ICO and JS files).