**ESS Release Procedure**

# Obtain Latest Development Main Line

1. Clone git repository for ESS. Clone should be done only once per repository.

|  |
| --- |
| $ git clone ssh://git@stash:7999/rms/pb980\_ess.git pb980\_ess  $ cd pb980\_ess |

1. Checkout latest development branch

|  |
| --- |
| $ git checkout master  $ git fetch origin  $ git pull |

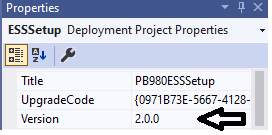
# Installer Versioning

# ESS is a Microsoft Visual Studio installer set up product. In order for the new installer to remove the old version during installation process, version of ESSSetup project needs to be changed. So, the first step of the release procedure should be to increment the version of ESSSetup project in project properties.

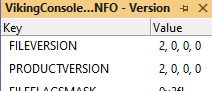
For example, the version of ESSSetup project, in its properties window can be changed from 2.0.0 to 2.0.1. This change would prompt the user to accept a change to Product Code which should be accepted. Once these changes are complete, save and check in the changes into the repository.

In addition to the above change, following files need to be changed in order to update the version information. Modify the appropriate contents in the following files to the new version number:

1. Change “version” in following files (shown as arrow)
   1. ESSSetup\ESSSetup.vdproj
   2. DownloadModule\SoftwareDownloadSetup\SoftwareDownloadSetup.vdproj



1. FILEVERSION and PRODUCTVERSION strings in
   1. Source\DownloadModule\VikingConsoleDriver\Resource Files\VikingConsoleDriver.rc
   2. Source\SoftwareOptions\SoftwareOptionsKey\Resource Files\SoftwareOptionsKey.rc



1. Update AssemblyVersion, AssemblyFileVersion values in Utilties\VersionInfo.cs file.

Note: This can be done either in the private branch, if the branch would be subsequently merged into mainline and built. This change can also be done on the mainline directly also after the private branch has been merged.

If changes are performed on the master branch, then they should be pushed into the master branch using the following commands

|  |
| --- |
| $ git add –u  $ git commit –m “version string changes”  $ git push origin master  $ git fetch  $ git pull |

# Labeling

1. Using the following commands verify that the commit identifier for the branch is the one which should be used for building the product software.

|  |
| --- |
| $ git rev-parse --short HEAD  $ git log -1 |

1. The first step in building and releasing an ESS version is to tag (for example: ESS\_2.0.0) the branch. The following steps need to be followed for labeling the branch.

|  |
| --- |
| $ git checkout .  $ git clean -fd  $ git tag ESS\_2.0.0  $ git push --tags origin master |

# Build Setup

1. Clean the source directory and checkout the latest master branch using the following commands

|  |
| --- |
| $ git checkout .  $ git clean -fd  $ git fetch origin  $ git pull master |

1. Using the following commands verify that the commit identifier for the branch is the one which should be used for building the product software.

|  |
| --- |
| $ git rev-parse –short HEAD  $ git log -1 |

1. Using the following commands verify that the correct tag is used for building the product software.

|  |
| --- |
| $ git describe –tags |

# Windows Build

The following pre-requisites need to be met for the windows builds of ESS.

1. MS Visual Studio 2022 installation (Include C#, Universal Win Platform, Desktop C++ and Enable/Check “C++ MFC for latest build v143) (note: If VS is not installed already)
2. PATH variable should contain VS 2022 path (e.g., C:\Program Files\Microsoft Visual Studio\2022\Professional\Common7\IDE) (note: If PATH is not added already)
3. On DOS command prompt.
   1. go to C:\Program Files\Microsoft Visual Studio\2022\Professional\Common7\IDE\CommonExtensions\Microsoft\VSI\DisableOutOfProcBuild directory
   2. Run DisableOutOfProcBuild.exe

|  |
| --- |
| $ cd C:\Program Files\Microsoft Visual Studio\2022\Professional\Common7\IDE\CommonExtensions\Microsoft\VSI\DisableOutOfProcBuild  $ DisableOutOfProcBuild.exe |

1. Once the pre-requisites are met, build process can be started by following the steps below,

* On DOS command prompt window,
  + cd c:\<view>\VIKING\_TOOLS\VTS\Tools\Bldtools
  + run MakeReleasePackage.bat <version>

|  |
| --- |
| $ cd C:\Projects\SourceCode\PB980\_ESS\_SWVIK\_3408\Tools\BldTools  $ MakeReleasePackage.bat v2.0.0 |

# Installer Package

In the /BuildPackage directory, ESS installer zip file can also be found. Its details are as follows.

|  |  |  |
| --- | --- | --- |
| Installer directory:  ESSInstaller\_<version>.zip | Contains:   1. ESSSetup.msi 2. Setup.exe 3. dotnet48 4. WindowsInstaller3\_1 | ESS Installer package. Contains the bundled package for installing ESS on a windows PC in a zipped format. ESS can be installed by unzipping the package and running setup.exe executable and following the prompts. |

# Testing

The newly built setup.exe can be installed afresh on a windows (Win10) machine and should be tested appropriately. The test procedure is out of the scope of this document.

# Export

Once the BuildPackage directory is complete, an ECO shall be submitted and the BuildPackage/ESSInstaller\_<version>.zip can be copied to a network drive in order to be accessed by credentialed parties.

The following drive location and directory naming convention should be used for publishing the package. \\tacarl-rd01v\release\ESS\ESSInstaller\_<version>.zip