
Technical Document Template

Installation Technical Documentation for the WRIA-1 DSS

created by Christopher Michaelis on October 19, 2004

Installation Technology Overview

Software these days cannot simply be copied to a destination computer and run. Modern software components are complex and intricate, often having a long list of dependencies which must be properly installed and registered with windows. In an effort to keep track of software and dependencies, we have organized the components of the WRIA-1 DSS using pre-built installation modules (merge modules) and InstallShield installations. There are many software packages available to help in organizing software to be installed; we have settled on InstallShield Express 5.1 as an excellent balance of cost and features. We utilize Microsoft Visual Studio to build merge modules, which is the only significant lack of functionality in InstallShield Express.

The software we use for installations is explained briefly below.

InstallShield Express 5.1

InstallShield Express is a product intended specifically for developing installations. These installations can run on any version of Windows (InstallShield Express 5.1 does not support Linux or PalmOS or Windows CE).

The installations produced by InstallShield express are capable of installing files to a system, installing merge modules (see below for a definition of merge modules), creating shortcuts to files, adding windows registry entries, and performing custom actions (DLL calls or executable files). InstallShield Express provides some flexibility in configuring the user interface which will be presented during an installation. The "Express" edition of InstallShield is a bit limited, but the price tag difference between this and the "Full" edition makes using it very worthwhile. The features that we're missing by not using the "Full" edition are basically not having complete and utter control over the installation process (i.e., changing the order in which dialogs appear, creating completely new dialogs, or performing special functions during the middle of the installation). InstallShield Express is also not capable of producing merge modules; we use Microsoft's Visual Studio to accomplish this.

InstallShield Express does still allow "Custom Actions" at the end of the installation; a custom action is a call to an external executable file or DLL. This file can be on the installation media or installed with the product.

Using InstallShield Express is a fairly straightforward process. On opening the project (the .ise file), you'll see a panel on the left-hand side with options such as "Redistributables", "Files",

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