**Installer**

**for**

**Ignition-based Applications**

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# Change History

| Version | Date | Author | Changes |
| --- | --- | --- | --- |
| 1.0 | Dec 23, 2015 | C. Coughlin (ILS) | Initial concept, use cases |

# Introduction

An Ignition-based product often requires a collection of several individual components for a complete installation. Updates of previously installed versions tend to be manual operations that are tedious and error-prone. This documentation describes an ILS-Automation product that handles application releases in the familiar paradigm of an installer.

Using the ILS Application Installer, the end user is presented with a wizard-style sequence of screens that handle installation of the various components that make up an application. These components may be, among other things: full or partial projects, UDT definitions, icons, internal and/or external python packages, SQL update scripts, and Java-modules.

Only an Ignition project containing the release bundle for a particular delivery, plus a general-purpose Ignition “Application Installer” module are required.

# Use Cases

This section describes the major use cases that have driven design of this product.

## Fresh Installation

Description:

In a fresh installation, the entire product is installed. No attention is given to existing instances. There may be options that cover feature-selection or custom configurations.

Target products:

Batch Expert +

## Product Update

Description:

In a fresh installation, the entire product is installed. No attention is given to existing instances. There may be configuration options

Target products:

EM Chemicals Applications, Batch Expert +

## Multi-project Update

Description:

In a fresh installation, the entire product is installed. No attention is given to existing instances. There may be configuration options

Target products:

AED-RTA.

## User-created Install Package

Description:

In a fresh installation, the entire product is installed. No attention is given to existing instances. There may be configuration options

Target products:

AED-RTA.

# Typical Workflow

This section describes the general order of operations involved with preparation and use of an installation bundle.

Workflow

## Master Builder

The master template is a project supplied by ILS-Automation. It contains template panes for each type of resource handled by the installer.

## Builder for a Specific Project

The engineer or developer preparing an installer for a specific product and version copies the master builder project (or a project prepared for a previous version) and configures an install sequence. The installer is constructed to follow the very common paradigm of a series of overlaid panels that guide the installation steps. The panels refer to file-system locations of the various resources, but do not load them.

The amount of work required to create a project for an update is likely to be minimal if starting from the previous builder project. The panels are likely to remain unchanged, and, if the files paths point to locations in a build system (i.e. source control repository), file path configurations are likely to be unchanged as well.

## Install-project Creation

Once the product builder project is complete and configured (and with the “Application Installation” module installed), the engineer/developer selects a location in the file system and launches the build. On completion of the build, an Ignition project will have been created. It will contain, embedded, all the resources that comprise the product. Most importantly it will contain the install-wizard for use by the end user.

## Installation

The end-user loads the release-project into the target Gateway, starts the Designer and follows the installer instructions. The ILS “Application Installation” module must have been previously installed. On completion of the install, the user’s system is configured with a new project containing the subject product and version. Any existing user-data in the previous project is preserved. The newly-created-project is placed in a disabled state to prevent it from interfering with the existing system.

# Install Panels

Each panel described below is a template in the Master Builder project. Each panel handles a specific type of application resource.

## Overview

When complete, the panels are overlain to form the familiar wizard layout familiar to many users. A sample is shown below:

Wizard