



Aras DevOps

Application and Platform Component Configuration Guide

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1 Introduction

1.1 Purpose

The Aras DevOps – Application and Platform Component Configuration Guide provides information for Aras DevOps subscribers to add Aras platform components and applications to their Aras Innovator instance with the information provided.

1.2 Scope

This document provides instructions for installing and configuring the Aras Application Code Tree Patch, Aras Application Import Package, and Aras Application Converter.

1.3 Target Audience

This document is intended for Aras DevOps administrators responsible for installing and configuring the applications and platform components for the Aras Innovator instance utilizing SaaS.

1.4 Prerequisites

Aras DevOps administrators or contributors must have an installed Aras Innovator instance prior to following the steps outlined in this document. It is recommended that all administrators read the Aras DevOps – User Guide, as it explains how to effectively utilize the Aras DevOps service included as part of the Aras Enterprise subscription to manage Aras Innovator customizations throughout the entire lifecycle of the Aras Innovator implementation.

2 Definitions

This section defines the terms used in this document.

Term	Definition
Application	Applications are release specific and must be compatible with the installed Aras Innovator release.
Code tree	The set of files that make up the application or platform component files for Aras Innovator.
Code tree patch	The set of files in an application installation package that should be applied to the code tree to install the code tree component of an application.
Converter binaries	The set of binaries included in a converter utilized for processing a conversion task by the conversion server (HOOPS, Prince, etc.)
Converters	A toolset included with some applications for executing asynchronous tasks on the conversion server (e.g. CAD to PDF, PDF Watermarking, etc.)
Import package	The set of XML files and the corresponding import.mf file that represent a package or set of packages that need to be installed to apply the database changes of an application.
Installation package	The set of files utilized to install an application that may include a code tree patch, an import package, and/or converters.
Platform Component	Aras Platform Components are not release specific and can be installed without a direct dependency of the installed Aras Innovator release.

3 Aras Application Code Tree Patch Installation

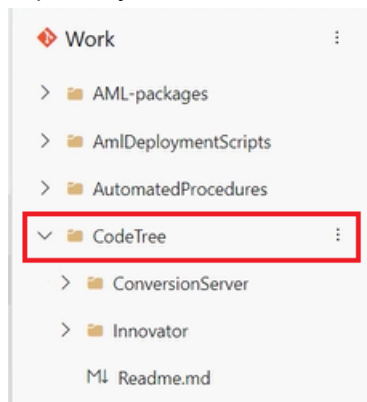
The information provided in this section outlines the steps required for manual installations of the Aras platform components and applications code tree when using the Standard Development Environment (SDE).

3.1 Installing an Aras Application Code Tree Patch

The code tree patch is included in the Aras application installation package which changes the Aras Innovator code tree. Application customizations are applied in the Work.git repository.

The following steps outline the process of installing an Aras application code tree patch:

1. Extract the required application installation package to a local directory from the [Aras FTP](#) site.
2. Copy the code tree patch into the Work.git repository as follows:
 - Copy the **\Innovator** folder (if it exists) into the **CodeTree** folder of the Work.git repository
 - Copy the **\OAuthServer** folder (if it exists) into the **CodeTree** folder of the Work.git repository
 - Copy the **\VaultServer** folder (if it exists) into the **CodeTree** folder of the Work.git repository
 - Copy the **\ConversionServer** folder (if it exists) into the **CodeTree** folder of the Work.git repository
 - Copy the **\AgentService** folder (if it exists) into the **CodeTree** folder of the Work.git repository



3. Stage and review the changes to ensure that no customizations are overwritten by the application code tree patch installation.
4. Commit the changes.
5. Run the “**continuous-integration**” pipeline.
6. Run the “**deploy-innovator**” pipeline to complete the installation.

4 Aras Application Import Package Installation

The information provided in this section outlines the steps required for manual installations for the import package of Aras platform components and applications when using the Standard Development Environment (SDE).

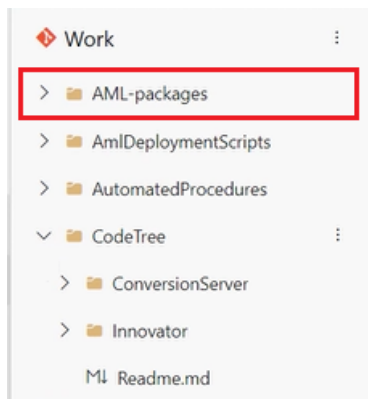
4.1 Installing an Aras Application Import Package

The import package provided is an application or platform component for installation changes for Aras Innovator instance. Application customizations are applied to the database.

The following steps outline the process of installing an Aras application import package:

1. Extract the application installation package to a local directory.
2. Copy the import package(s), from the `..\imports\` folder into the AML-packages folder of the Work.git repository.

Note: Do not copy the `imports.mf` file, as this will overwrite the existing `imports.mf` file in the Work.git repository.



3. Open the `imports.mf` file from the application installation package.
4. Copy the following `<package>` elements. For example:

```
<imports>
  <package name="aras_3dviewers" path="Aras3DViewers">
    <dependson name="com.aras.innovator.ssvc" />
    <dependson name="hoops_converter" />
  </package>
  <package name="com.aras.innovator.cui_default" path="." />
  <package name="com.aras.innovator.ssvc" path="." />
  <package name="com.aras.innovator.viewers" path="." />
</imports>
```

5. Paste the `<package>` elements into the `imports.mf` file of the Work.git repository.
6. Stage and review the changes to ensure that no customizations are overwritten by the application import package installation.
7. Commit the changes.
8. Run the “**continuous-integration**” pipeline.
9. Run the “**deploy-innovator**” pipeline to complete the installation.

5 Aras Application Converter Installation

The information provided in this section outlines the steps required for adapting the manual installation steps for converters when using the Standard Development Environment (SDE).

5.1 Installing an Aras Converter

The Aras Converter installation process through Aras DevOps is different from the on-premises instance of installing Aras Innovator. The converters are applied programmatically during deployment and must be configured in a dedicated folder. All necessary configuration is executed during the converter installation with generation of a customized script, as needed.

5.1.1 Entry Point for Custom Scripts

The following steps outline the process of providing the entry point for customized scripts:

1. Go to the `\CodeTree\ConversionServer\customExtensions\` folder of the Work.git repository.
2. Create a file `onbuild.sh` for the entry point for the customized scripts in the Work.git repository. The `onbuild.sh` should have content using the following template:

```
# Install third-party prerequisites
if [ -f
/app/customExtensions/CUSTOM_CONVERTER/installCustomConverter.sh]
then
chmod +x
/app/customExtensions/CUSTOM_CONVERTER/installCustomConverter.sh
/app/customExtensions/CUSTOM_CONVERTER/installCustomConverter.sh
fi
```

where `CUSTOM_CONVERTER/installCustomConverter.sh` points to the directory and script for installing each of your converters.

Note: The File case sensitivity is critical as this file will be executed in a Linux environment.

5.1.2 Converter Installation Script

The following steps outline the process of installing a converter script:

1. Create the converter installation script `installCustomConverter.sh` in the `\CodeTree\ConversionServer\customExtensions\CUSTOM_CONVERTER\` folder of the Work.git repository.

Note: The content of this script is specific to the converter binaries that need to be installed for the converter.

2. Include the relevant binaries for each converter into the `\CodeTree\ConversionServer\customExtensions\CUSTOM_CONVERTER\` folder of the Work.git repository.
3. Stage and review the changes to ensure that no customizations are overwritten.
4. Commit the changes.
5. Run the “**continuous-integration**” pipeline.
6. Run the “**deploy-innovator**” pipeline to complete the installation.