

Accord Program Recipe

User Guide

Document: **Accord Recipe Manager V1.13 User Guide.Docx**

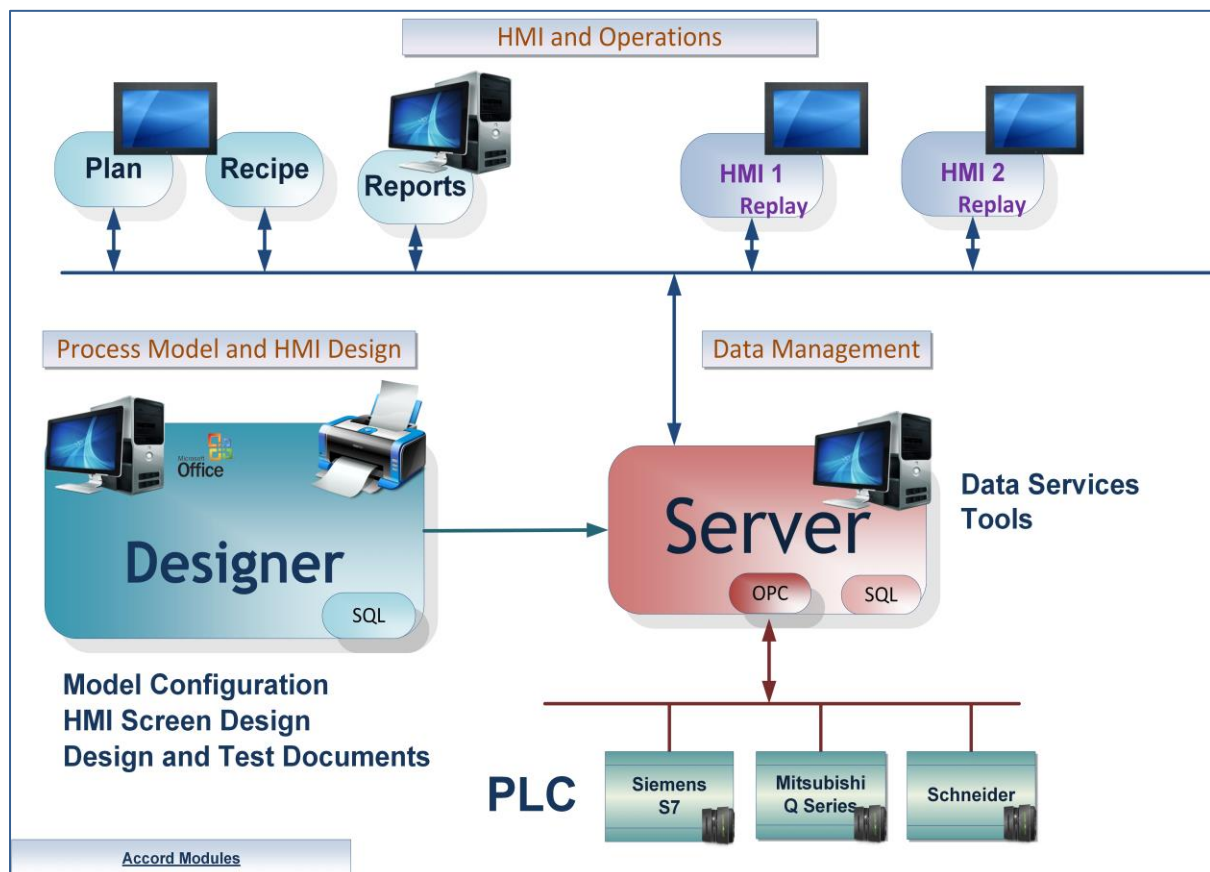
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1 Introduction

Accord Recipe Manager allows for the configuration of one or more Recipes for a Program. Each Recipe can contain a unique set of Setpoint Values, Decision States and Step Times. Configured Recipes are immediately available in Accord HMI (and ActiveX) Program control selections. Prior to the start of a Program, the user can choose a Program Recipe from one of the configured recipes. There is a maximum limit of 255 possible recipes that can be defined for a given Program.

The Accord Recipe Manager application works in conjunction with Accord Server. It may be hosted on the same PC as Server or on a separate PC. The Recipe Manager is not necessary for operation of an automation system and is an add-on to initial operation capabilities.



Accord Platform Modules

The above illustration is a recommended setup and not a requirement; a single PC of suitable specification can be used to host all elements of the Accord Platform.

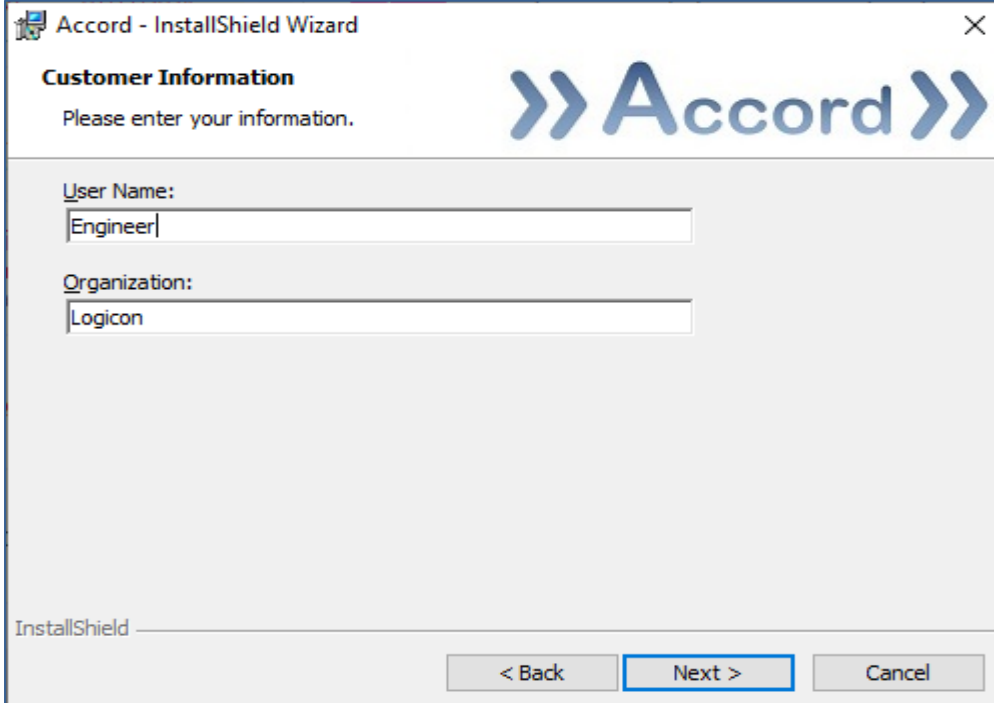
This document provides explanations for Recipe Manager.

Please see Accord Server User Guide for List of Modules and Definitions.

2 Installation

Accord Recipe Manager is a light client application that can be hosted on any PC. Accord Server may require a high performance PC, depending on applications sizes and system requirements. Accord Recipe is installed from Accord Setup Installer.

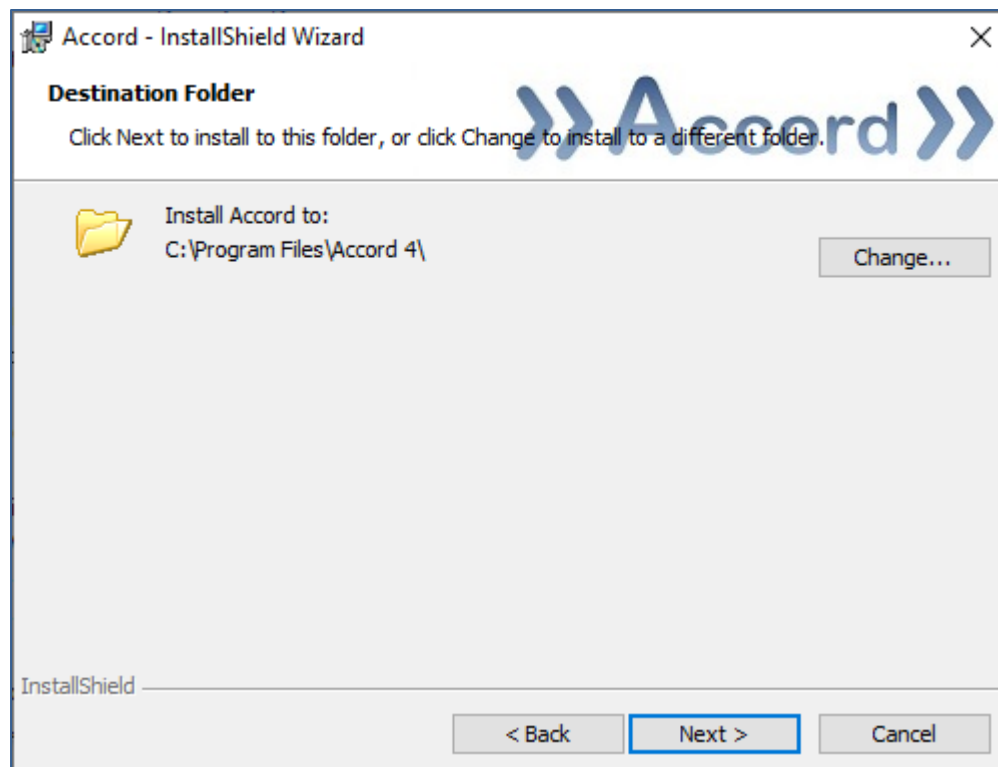
Run Accord Setup and select Recipe Manager and any other required modules. Server should be installed, either on this or a networked PC, to provide Database management.



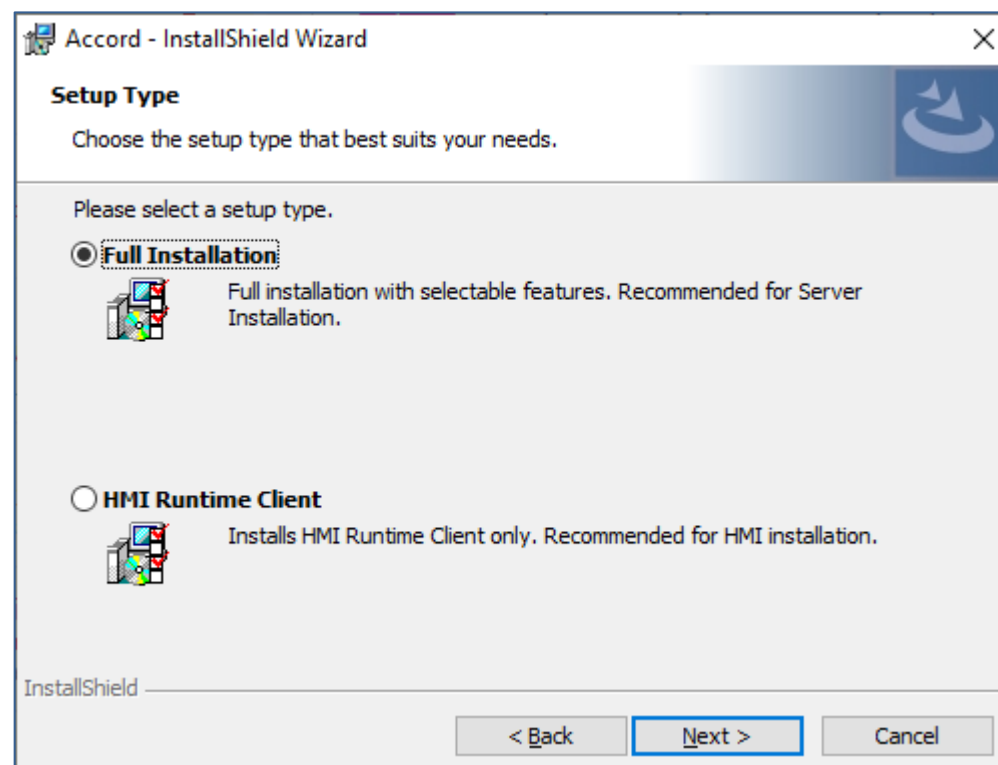
The screenshot shows a Windows-style dialog box titled "Accord - InstallShield Wizard". The window has a close button (X) in the top right corner. The main heading is "Customer Information" with the instruction "Please enter your information." Below this, there are two text input fields. The first is labeled "User Name:" and contains the text "Engineer". The second is labeled "Organization:" and contains the text "Logicon". In the bottom right corner, there are three buttons: "< Back", "Next >" (which is highlighted with a blue border), and "Cancel". The InstallShield logo is visible in the bottom left corner of the window.

Accord Setup.exe

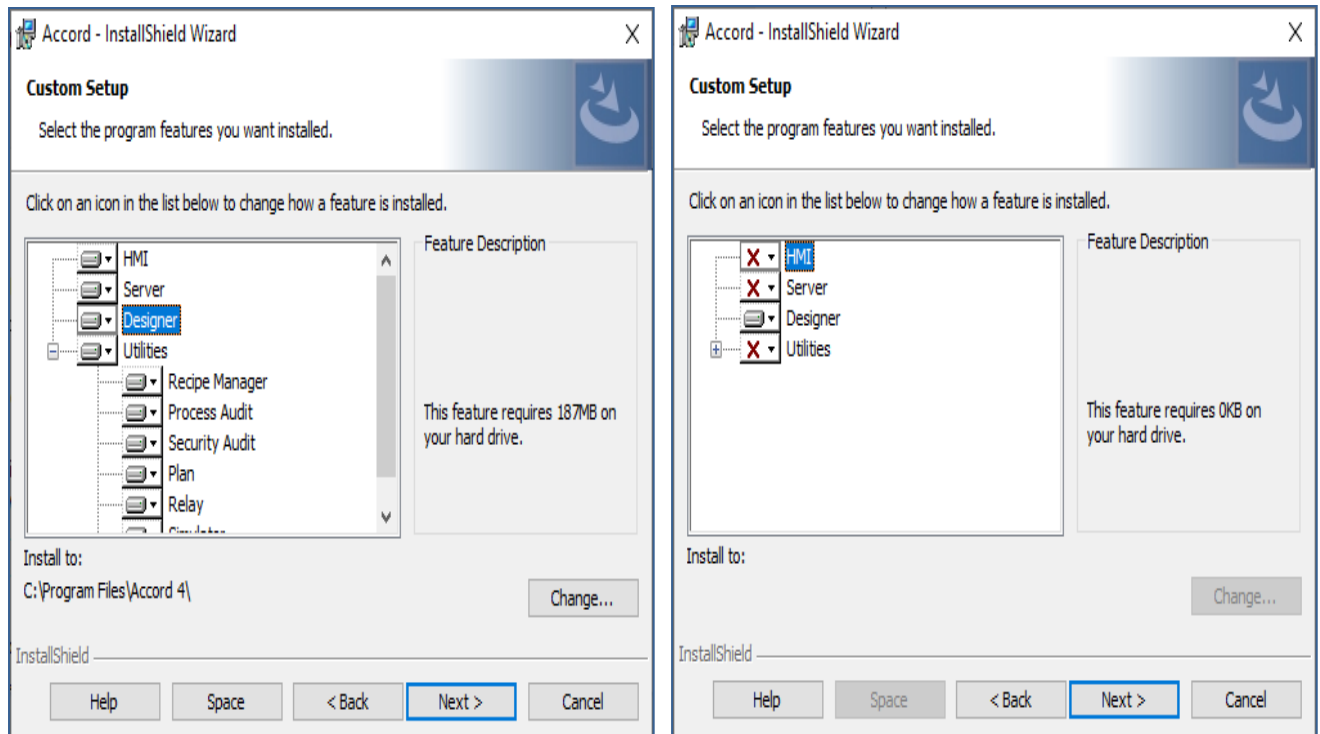
1. Entry of User Name and Organisation



2. Installation Folder selection

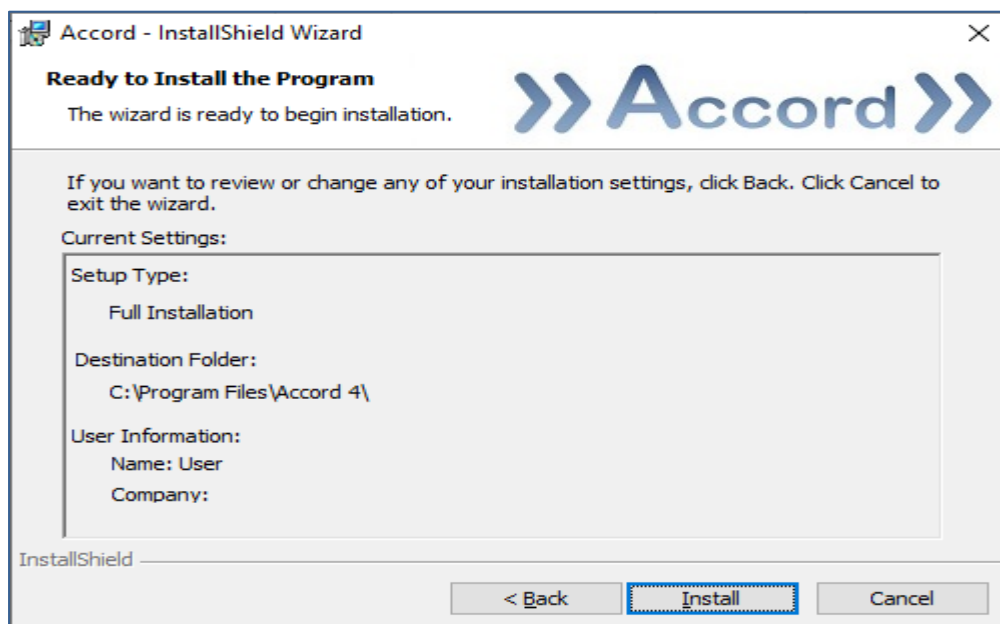


3. Installation selection



4. Selection of **Recipe Manager** and any other required modules. The installation is to a ProgramFiles folder but may be changed.

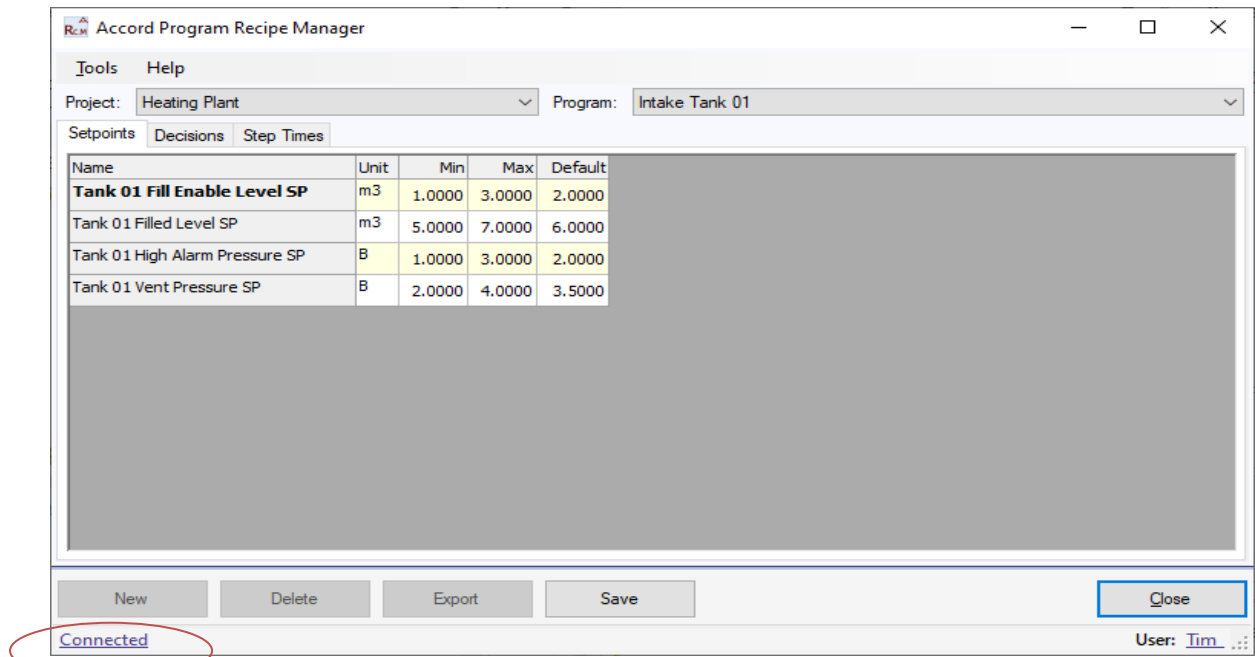
Note Modules are selected to be installed by default. Right-click on a module to deselect the installation of the module.



5. Installation is completed on pressing Install.

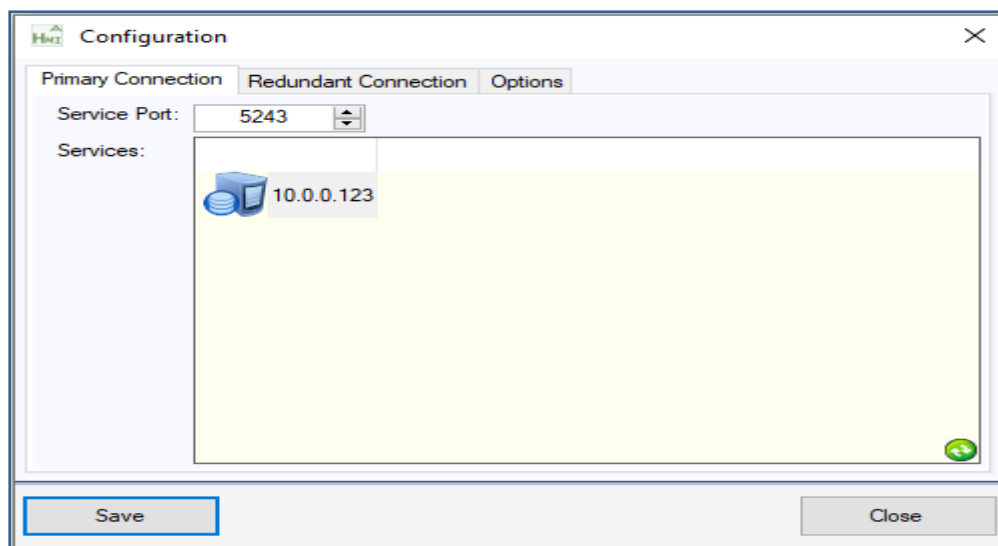
2.1 Initial connection to Accord Server.

Once installed the Recipe module must connect to an Accord Server for data. Recipe should find the Server module automatically if it is on the same PC.



Accord Program Recipe Connection Status area

Clicking on Connected or Disconnected Status will cause Configuration popup to appear with Green Refresh button at the Bottom.



Connection Selection

Connections are selected from the list. If the required IP address is not available it may be searched for by clicking Refresh button. Logging in is carried out after connection, by clicking on the User: in the bottom of the Screen. The User must already be listed User in Server settings Security section.

3 Recipe configuration

All programs in the Model have a Default recipe, configured in Designer and Accord Server will initially use this Default recipe. This recipe cannot be deleted but can be modified using this Recipe Manager.

Each Program Recipe has the following groups:

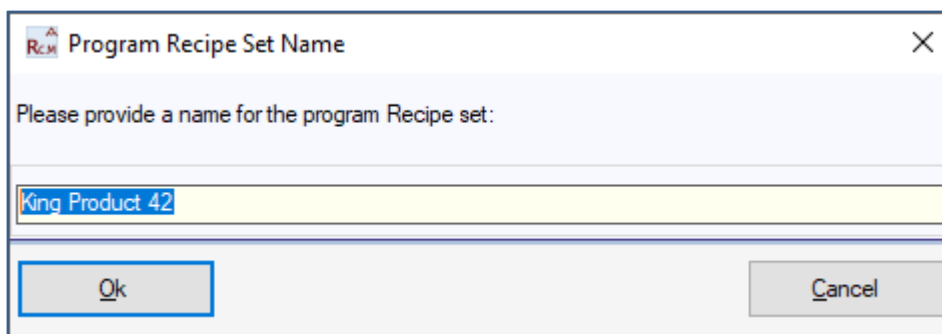
1. Setpoints
2. Step Times
3. Decisions

When a Recipe is created it has the same configuration as the Default recipe, until modified in Recipe Manager.

During a Model download to PLC or Emulator, some settings for custom recipes may be changed due to changes in the original definition in the Model. For example, a Program Setpoint value will be changed to be within the Max/Min range if the range changes.

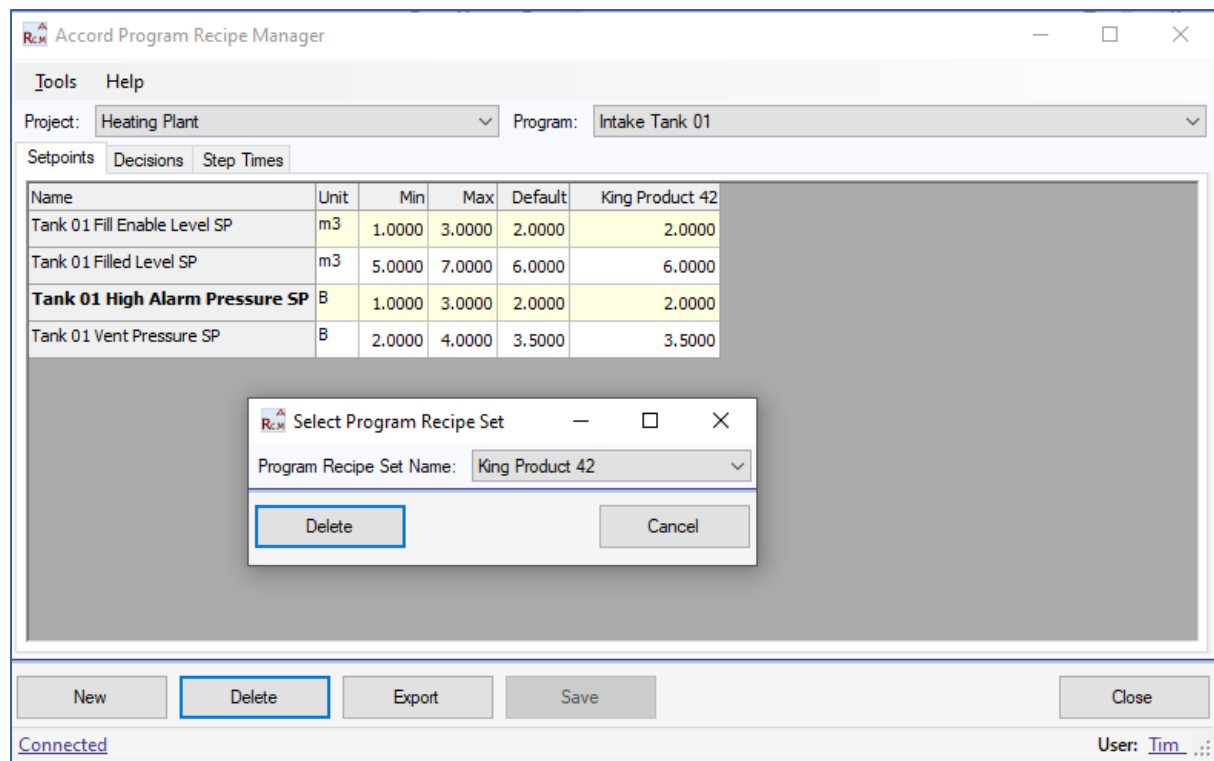
3.1 Adding and Deleting Recipes

A new recipe is added by selecting the project or Model in the '**Project**' list and the program in the '**Program**' list and clicking on '**New**' button and entering a name of the new recipe.



Note: ***Recipe names must be unique for each Program.***

A Recipe is deleted by select the project or Model in the '**Project**' list and program in the '**Program**' list and selecting the Recipe in dropdown menu and clicking the '**Delete**' button.



Recipe Addition and Deletion section

Note: Deleting a Recipe that is currently applied to and being used for a Program in the PLC which is Active does not alter any settings on the PLC however, it may result in the recipe name being displayed on HMI controls as 'Unknown'.

3.2 Configuring the Recipe

3.2.1 Setpoints

A program may contain one or more recipe Setpoints, as configured using Designer. Values for Setpoints can be modified in Setpoints section, with values presented side-by-side, along with the Units and the Min/Max range for that Setpoint.

Accord Program Recipe Manager

Tools Help

Project: Heating Plant Program: Intake Tank 01

Setpoints Decisions Step Times

Name	Unit	Min	Max	Default	King Product 42
Tank 01 Fill Enable Level SP	m3	1.0000	3.0000	2.0000	2.0000
Tank 01 Filled Level SP	m3	5.0000	7.0000	6.0000	6.0000
Tank 01 High Alarm Pressure SP	B	1.0000	3.0000	2.0000	2.0000
Tank 01 Vent Pressure SP	B	2.0000	4.0000	3.5000	3.5000

New Delete Export Save Close

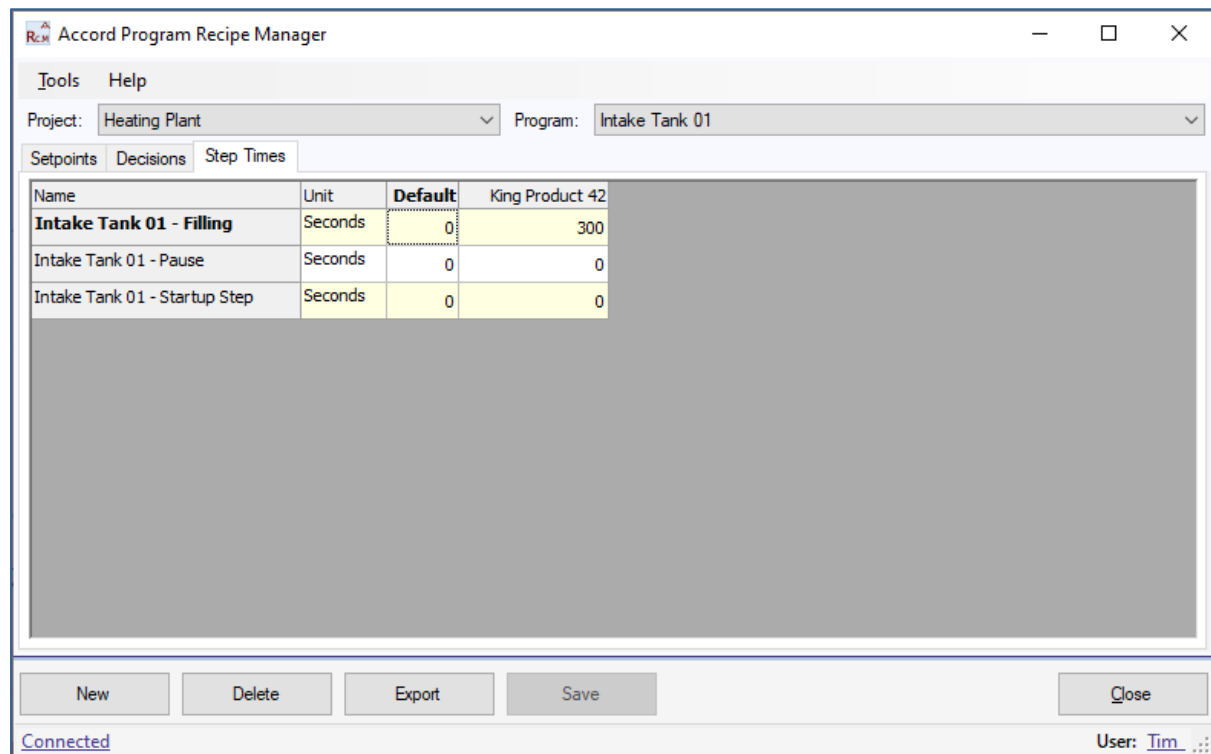
Connected User: Tim

Program Recipe –Setpoints

A Value is given to a Setpoint by selecting the project and program and selecting the ‘Setpoints’ tab and entering the value for the Setpoint.

3.2.2 Step Times

Each Program possess one or more Steps, configured using Designer and each Step has a step time for duration of the Step under normal circumstances. The Step Times section allows users to modify the step times, with times presented in columns for comparison.



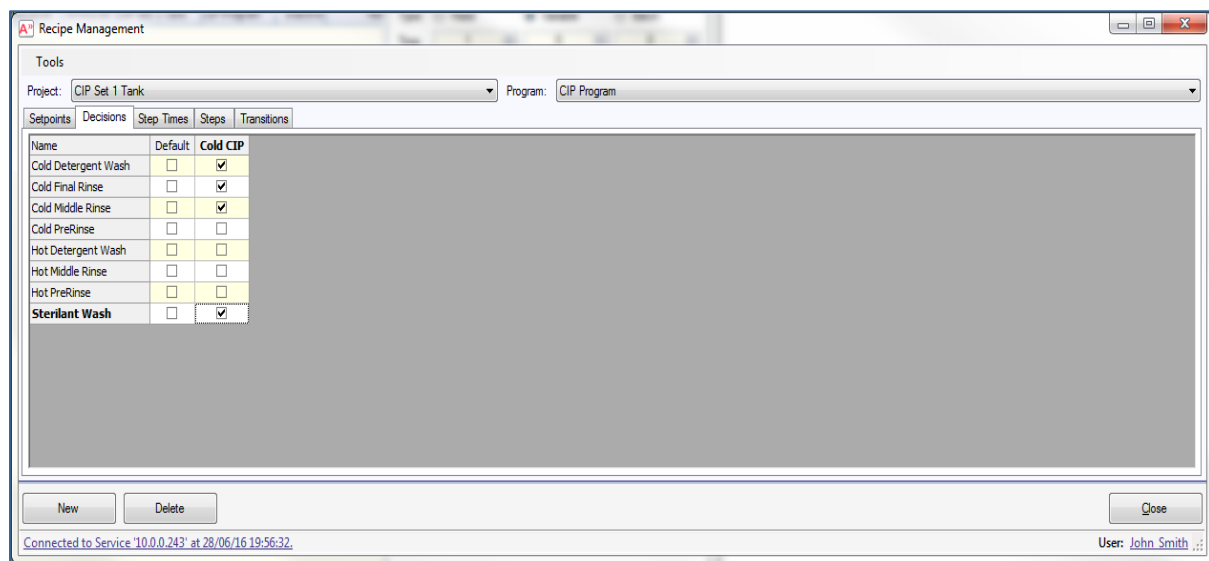
Name	Unit	Default	King Product 42
Intake Tank 01 - Filling	Seconds	0	300
Intake Tank 01 - Pause	Seconds	0	0
Intake Tank 01 - Startup Step	Seconds	0	0

Program Recipe - Step Times

A Value is given to a Step Time by selecting the project and program and selecting the '**Step Times**' tab and entering the value for the Setpoint.

3.2.3 Decisions

Recipe Manager allows for the assignment of an Initial state for Decisions in a program recipe. Whenever the Recipe is applied, Accord Server will automatically place the Decision in the required initial state.

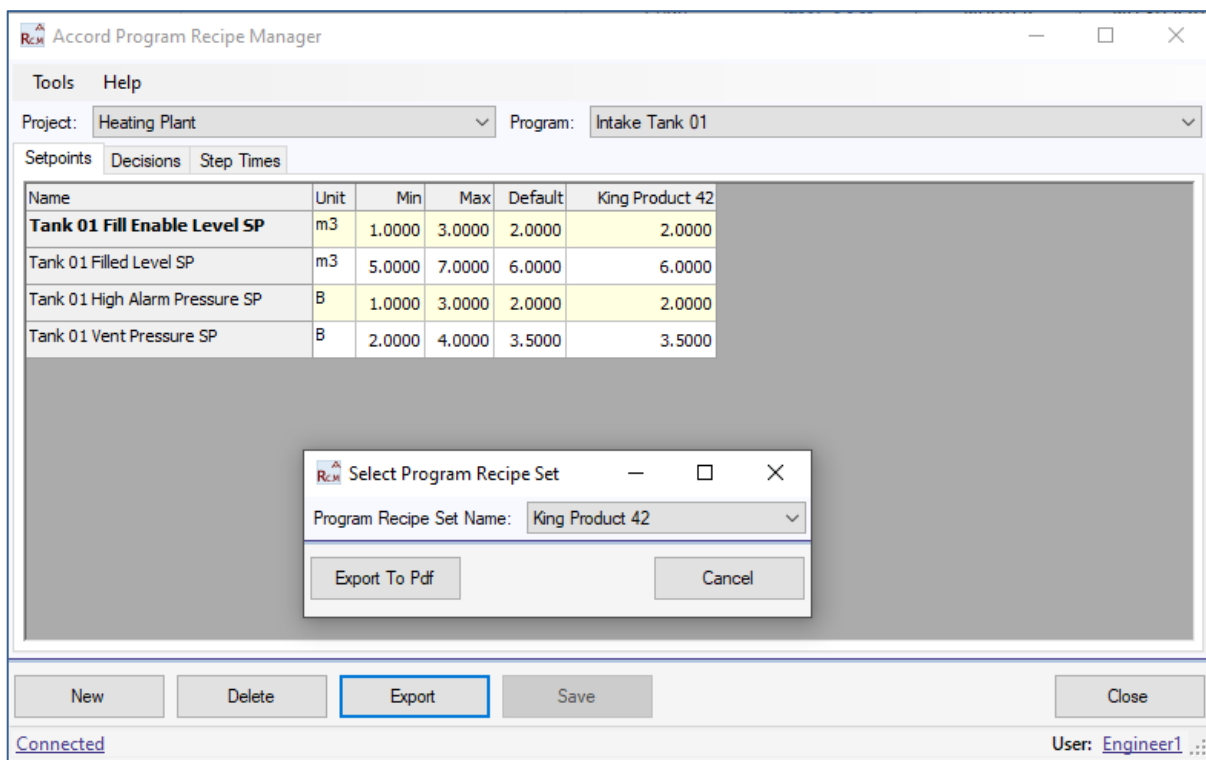


Program Recipe – Decisions

An initial State is given to a Decision by selecting the project and program and selecting the **‘Decision’** tab and Ticking or Unticking the **‘Decision’** for the required initial state.

3.3 Exporting the Recipe

A Recipe can be exported to pdf format for good record keeping.



Program Recipe – Export

The Recipe is exported using the Export button. A Panel allows selection of the particular Recipe and the folder location of the generated .pdf file may be chosen also.