

# 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.

🖟 Accord - InstallShield Wizard	X
Customer Information	
Please enter your information.	// Accord //
User Name:	
Engineer	
Organization:	
Logicon	
InstallShield	
	< Back Next > Cancel

#### Accord Setup.exe

1. Entry of User Name and Organisation



🖟 Accord	- InstallShield Wizard			×				
Destination Folder Click Next to install to this folder, or click Change to install to a different folder.								
	Install Accord to: C:\Program Files\Accord 4\			Change				
InstallShield -		< Back	Next >	Cancel				

2. Installation Folder selection

🖟 Accord - Insta	allShield Wizard			×					
Setup Type Choose the se	tup type that best suits yo		と						
Please select a setup type.									
Full Insta	llation								
1 <sup>1</sup>	Full installation with selec Installation.	table features.	Recommended for	Server					
O HMI Runtime Client Installs HMI Runtime Client only. Recommended for HMI installation.									
InstallShield ———	[	< <u>B</u> ack	<u>N</u> ext >	Cancel					

3. Installation selection



婦 Accord - InstallShield Wizard X	k Accord - InstallShield Wizard X
Custom Setup Select the program features you want installed.	Custom Setup Select the program features you want installed.
Click on an icon in the list below to change how a feature is installed.  Feature Description  Feature Description  Feature Description  Vulities  Vulities  Vulities  Vulities  Vulities  Vulities  Vulities Vulities Vulities Vulities Vulities Vulities	Click on an icon in the list below to change how a feature is installed.  Feature Description  Feature Description  Designer  Utilities
Process Audit Security Audit Plan Relay	This feature requires 0KB on your hard drive.
Install to:	Install to:
C:\Program Files\Accord 4\ Change	Change
InstallShield	InstallShield
Help Space < Back Next > Cancel	Help         Space         < Back         Next >         Cancel

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.

🛃 Accord - InstallShield Wizard 🛛 🗙
Ready to Install the Program The wizard is ready to begin installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard. Current Settings:
Setup Type: Full Installation
Destination Folder: C:\Program Files\Accord 4\
User Information: Name: User Company:
InstallShield

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.

Tools Helb								
Project: Heating Plant			~	Program:	Intake Tank 01			
Setpoints Decisions Step Times								
Name	Unit	Min	Max	Default				I
Tank 01 Fill Enable Level SP	m3	1.0000	3.0000	2.0000				
Tank 01 Filled Level SP	m3	5.0000	7.0000	6.0000				
Tank 01 High Alarm Pressure SP	В	1.0000	3.0000	2.0000				
Tank 01 Vent Pressure SP	В	2.0000	4.0000	3.5000				
Tank 01 Vent Pressure SP	B	2.0000	4.0000	3.5000				

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.

He Configurat	ion	×
Primary Connect	ion Redundant Connection Options	
Service Port:	5243 🜩	
Services:		
	10.0.0.123	
		$\odot$
Save	Close	

#### **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.

R Program Recipe Set Name	×
Please provide a name for the program Recipe set:	
King Product 42	
Qk	<u>C</u> ancel

*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.



Rcm Accord Program Recipe Manag	er				_		×		
<u>T</u> ools 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	В	1.0000	3.0000	2.0000	2.0000				
Tank 01 Vent Pressure SP	в	2.0000	4.0000	3.5000	3.5000				
Tank 01 Vent Pressure SP       B       2.0000       4.0000       3.5000       3.5000         Ref       Select Program Recipe Set       —       —       ×         Program Recipe Set Name:       King Product 42       ✓         Delete       Cancel									
New Delete		Ехро	rt	Sa	ave	Close			
Connected						User: Ti	<u>m</u> :		

## 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.

Rcm Accord Program Recipe Manag	er						_	-		×
<u>T</u> ools 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	В	1.0000	3.0000	2.0000	2.0000					
Tank 01 Vent Pressure SP	В	2.0000	4.0000	3.5000	3.5000					
New Delete		Expo	rt	Sa	ve				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.

Read Accord Program Recipe Man	ager				_		×
<u>T</u> ools Help							
Project: Heating Plant			✓ Program: In	ntake Tank 01			$\sim$
Setpoints Decisions Step Times							
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				
New Delete		Export	Save			<u>C</u> lose	
Connected						User:	lim:

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 assignation 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.

A" Recipe Manage	ment	The state of the state		
Tools				
Project: CIP Set	Tank		Program: CIP Program	
Setpoints Decision	ns Step Times	Steps Transitions		
Name	Default	t Cold CIP		
Cold Detergent W	sh 🗌			
Cold Final Rinse				
Cold PreRinse				
Hot Detergent Wa	sh 🗌			
Hot Middle Rinse				
Hot PreRinse				
Sterilant Wash				
L				
New	Delete			Glose
Connected to Serv	ce '10.0.0.243'	at 28/06/16 19:56:32.		User: John Smith

#### 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.

Rcm Accord Program Recipe Mana	_								
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	в	1.0000	3.0000	2.0000	2.0000				
Tank 01 Vent Pressure SP	В	2.0000	4.0000	3.5000	3.5000				
R Select Program Recipe Set - X									
Program Recipe Set Name: King Product 42 V									
	Ex	port To Po	Ħ		Cancel				
New Delete		Ехро	rt	Sa	ave				Close
Connected	User	Engineer1:							

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.