

Accord Plan

User Guide

Document: Accord Plan V1.16 User Guide

Table of Contents

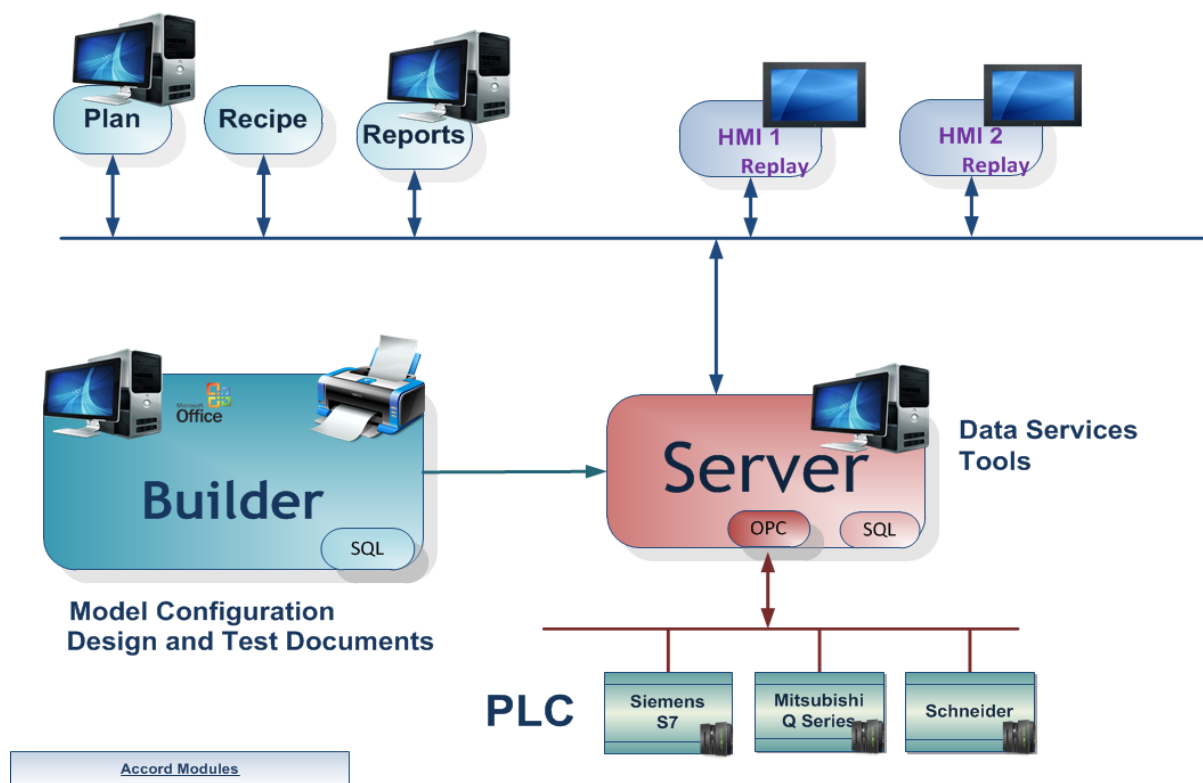
1	Introduction	2
2	Installation	3
2.1	Initial connection to Accord Server	6
3	Plan configuration	10
3.1	Starting Plan	11
3.1.1	Plan Manager	11
3.1.2	Creating a Plan	12
3.2	Plan Configuration	13
3.3	Plan Row Configuration	15
3.3.1	General Configuration	15
3.3.2	Row Details	15
3.4	HMI Prompt Configuration	20
3.5	Plan Advanced Mode	21
3.6	Save the Plan	28
3.7	Export Plan	29
4	Plan Manager Screens	31
4.1	Summary	31
4.2	Functionality	32
5.3	Plan Controls	35
5.4	Plan History	37

1 Introduction

Accord Plan allows for the configuration of a sequence of Programs with selectable Recipes. Each Sequence can contain different programs and recipes. The Plan Sequence may be saved as a Template or may be run as a single Plan. Each Plan sequence may be started within

another Plan sequence, allowing users to build simple plans, and combine them to perform more complex tasks.

Each Sequence may be attached to a configured Report, and this will automatically generate a Plan Report when the sequence finishes.



Accord Platform Modules

The Accord Modules may be hosted on single PC or distributed across many PC's.

2 Installation

Accord Plan requires a good standard PC. Accord Server may require a high performance PC, depending on applications sizes and system requirements.

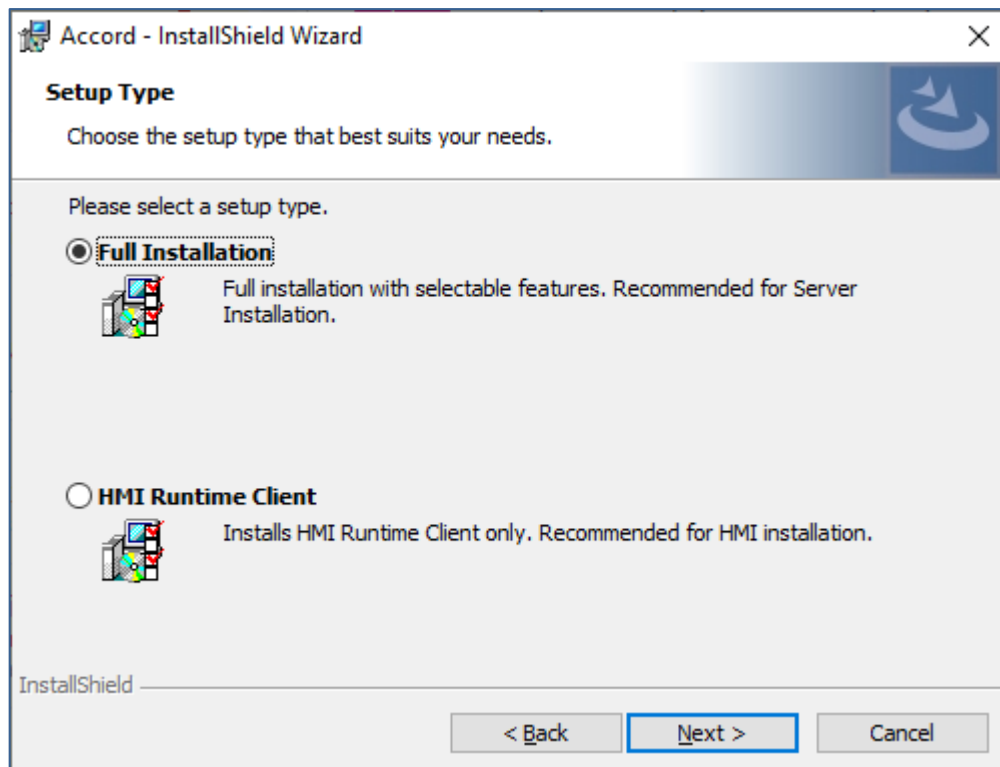
Plan is installed from Accord Setup Installer.

Accord Setup is started and Plan and any other required modules are selected. Server should be installed, either on this or a networked PC, to provide Database management.

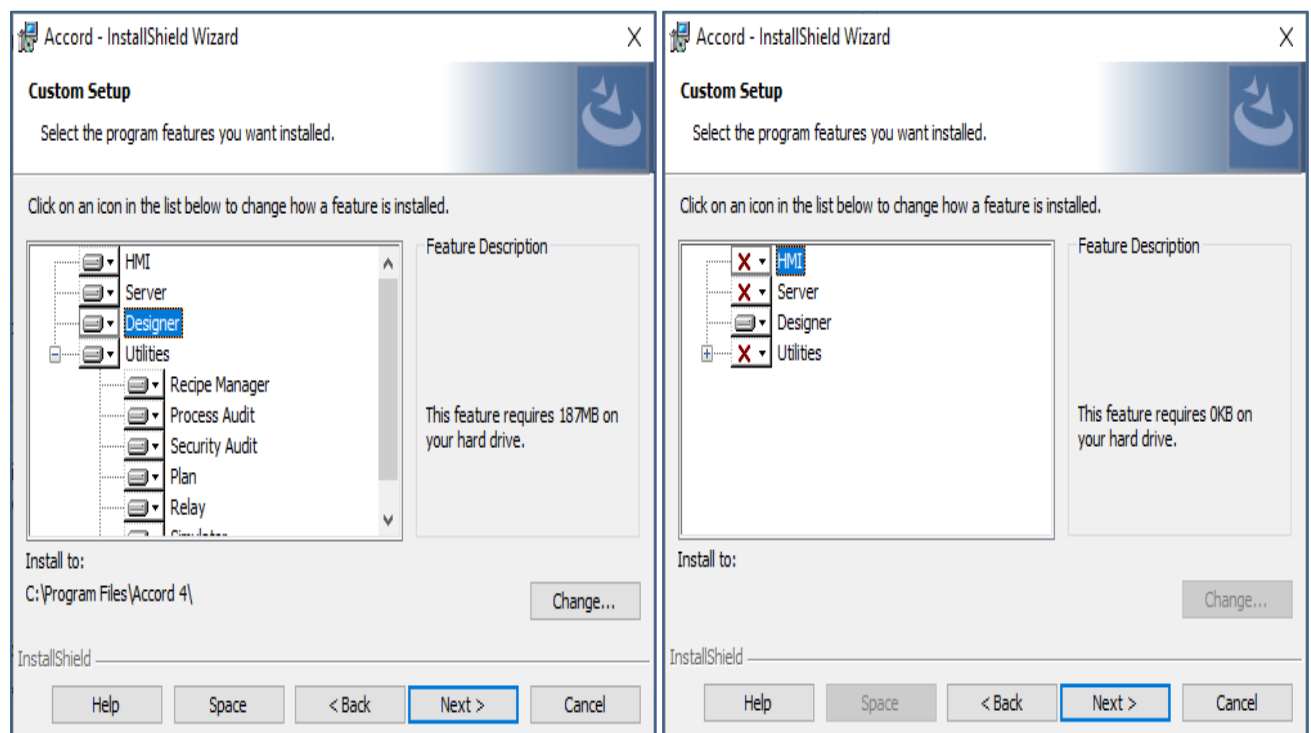
Accord Setup.exe

1. Entry of User Name and Organisation

2. Installation Folder selection

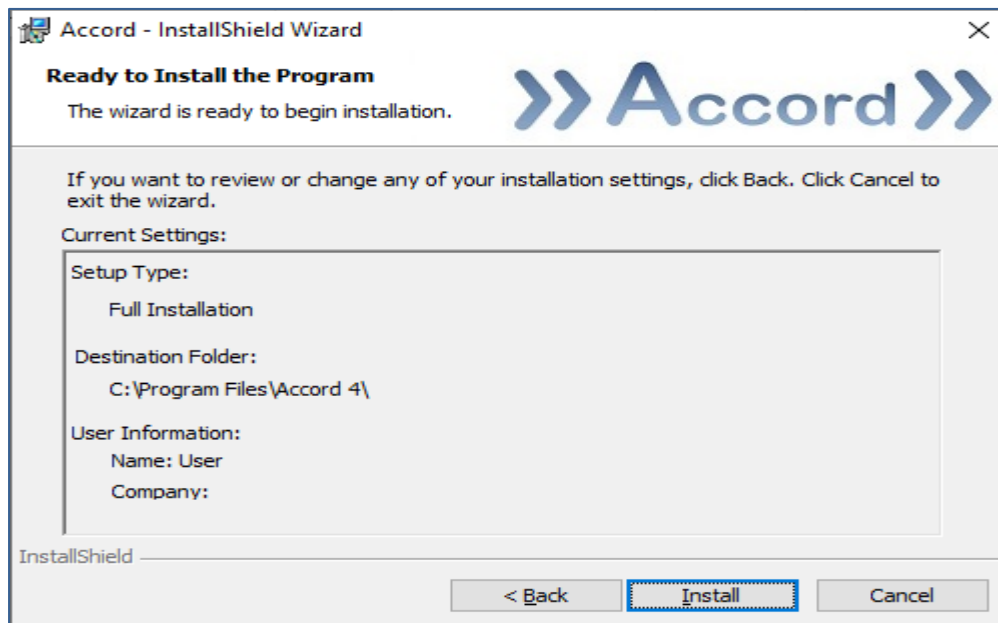


3. Installation selection



4. Selection of Plan and any other required modules. The installation is to a ProgramFiles folder but may be changed. Server must be installed on this PC or on a networked PC.

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



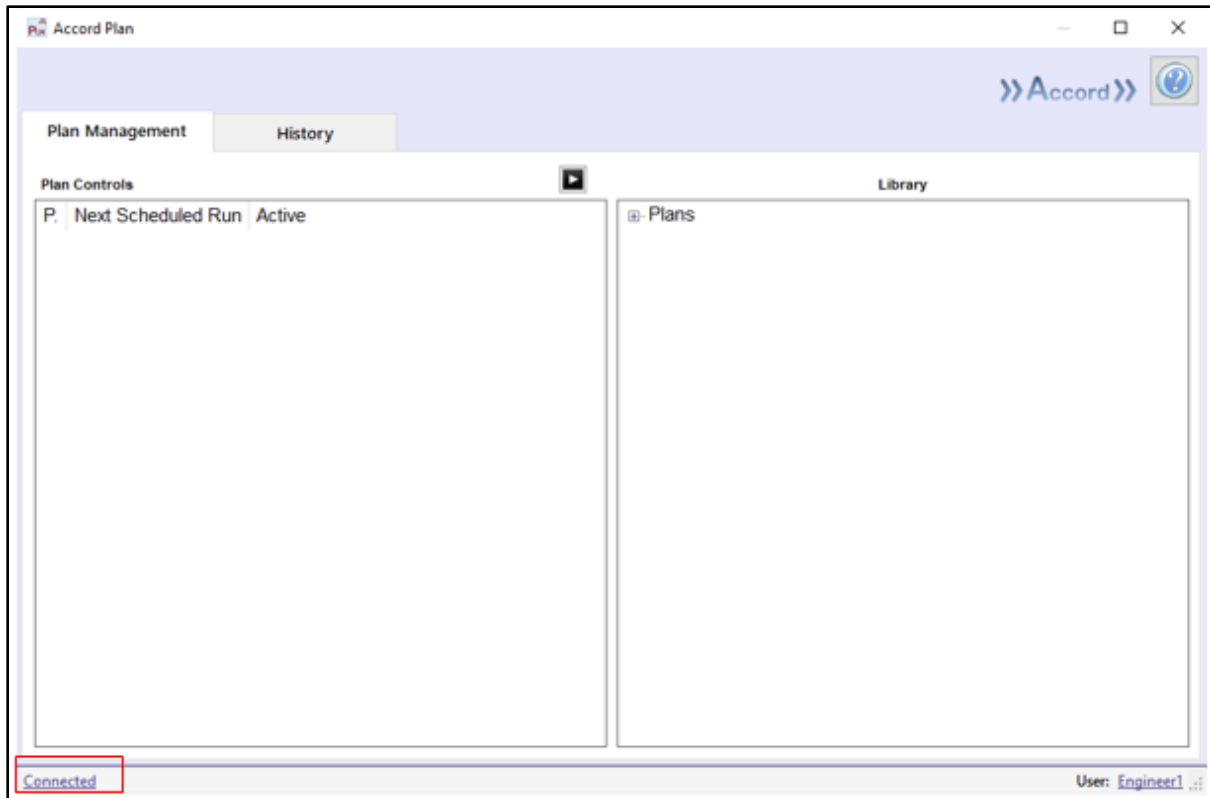
5. Installation is completed on pressing Install.

2.1 Initial connection to Accord Server.

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

Note: Licencing is not required for Accord Plan. Other licences may be required for additional Accord software installations. Please refer to the Accord Server User Guide for more information.

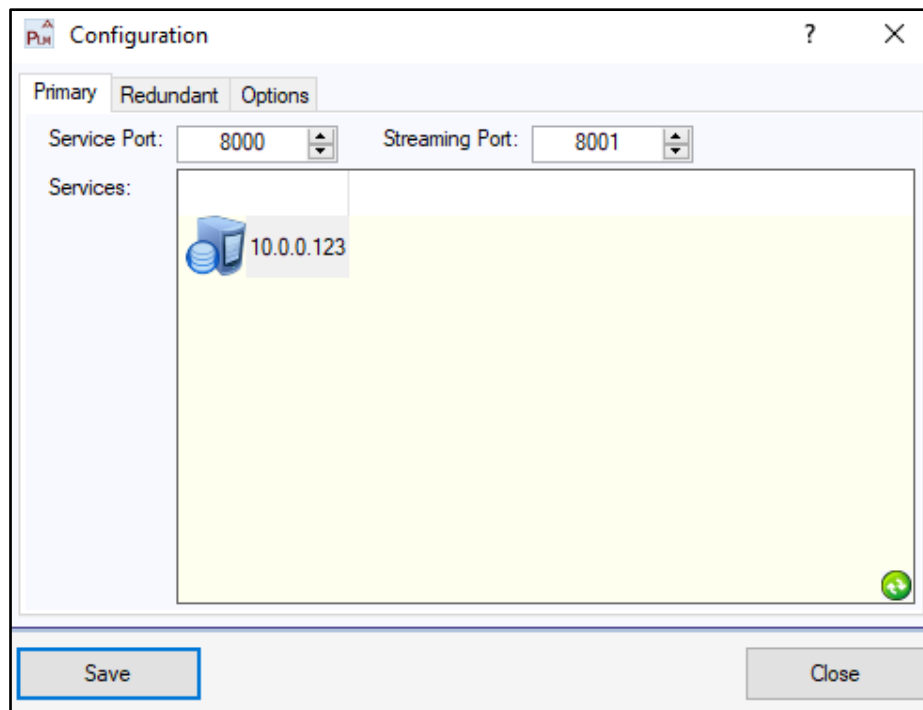
1. Start Accord Plan. Check for the “**Connected**” to Service status at the bottom left of the Screen.



Accord Plan Connection Status area

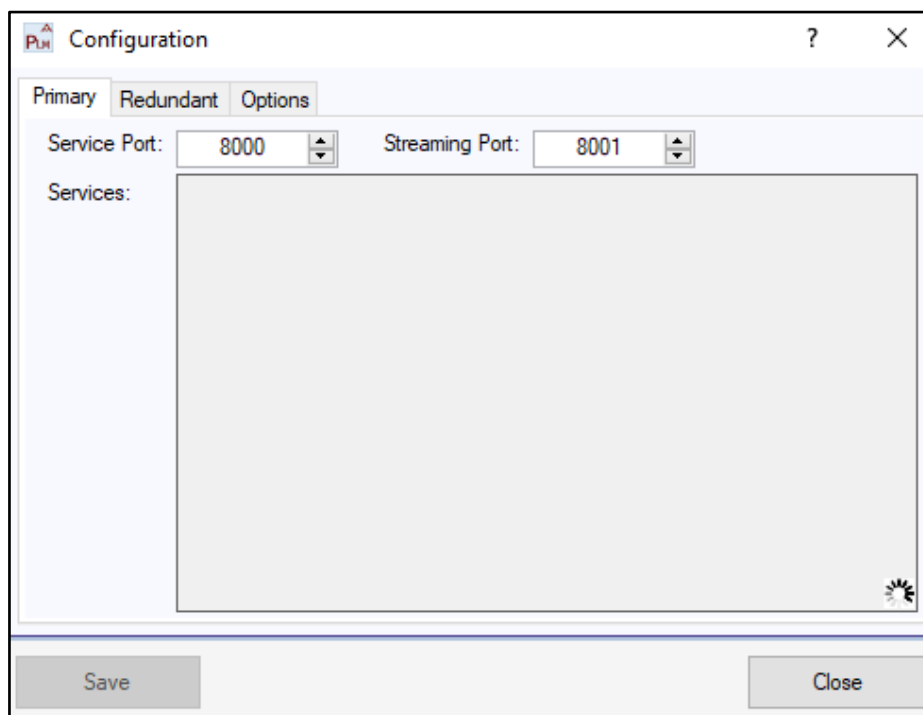
2. If “**Disconnected**” or not connected to required IP, then perform Search by clicking on the Connection Status (highlighted above).

This will cause following popup to appear with Green Refresh button.



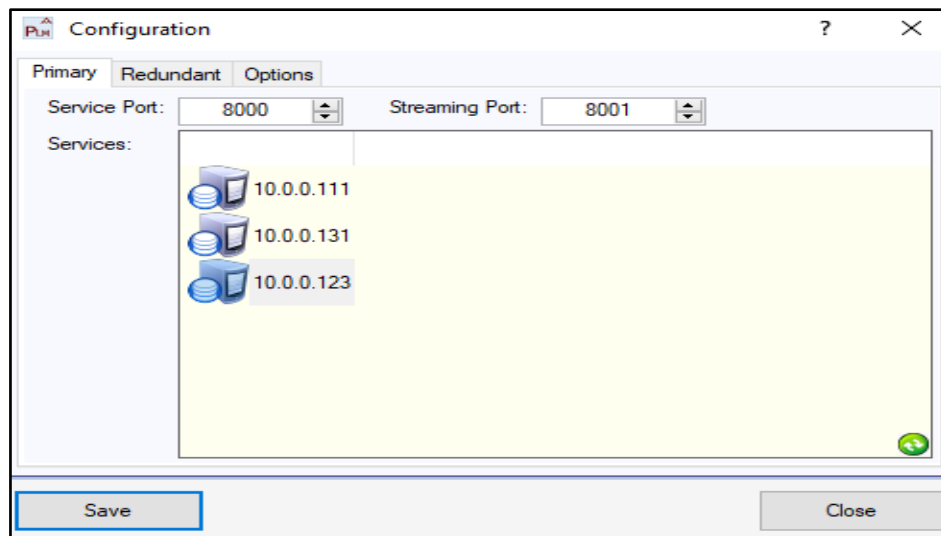
Accord Service Selection window

Click on the Green Refresh button at the bottom right side of the form, to begin search for Accord Server by IP address.



Accord Service searching

This will find the available Accord Servers, with appropriate IP addresses.



Accord Service Selection window

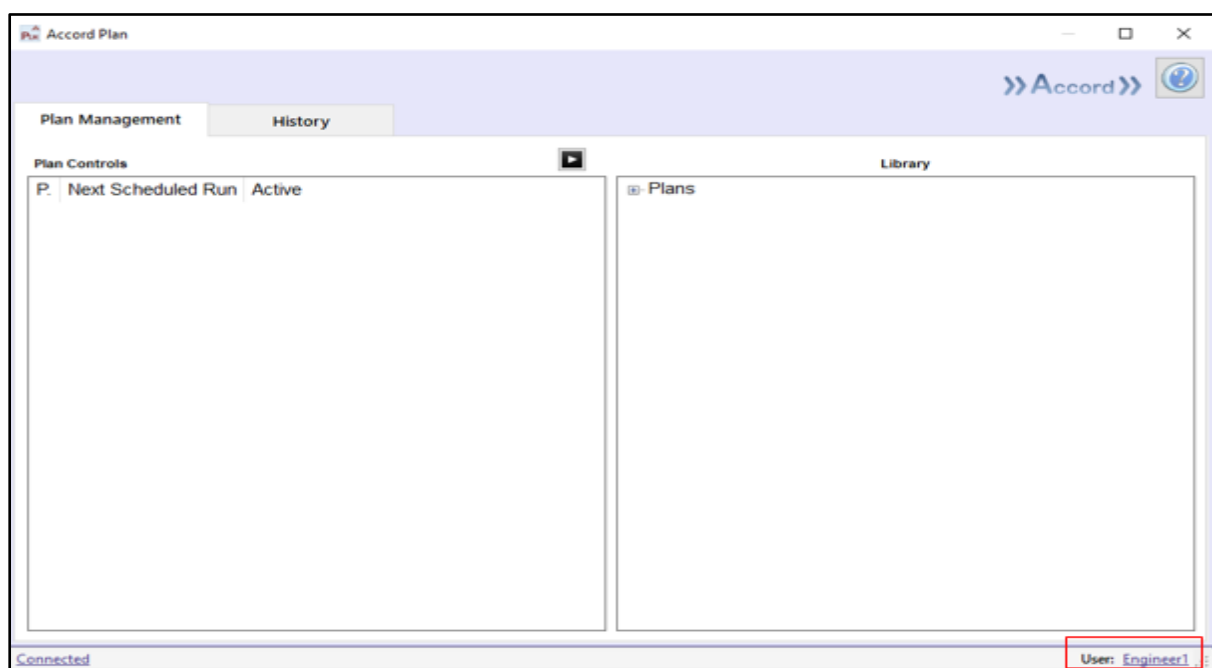
Select required Server.

If this does not return an appropriate IP, then:

- Check that Accord Server is running.
- Check that Accord Server PC is connected if it is another PC.

Note: By default Accord server uses Service Port 8000 and Streaming Port 8001. This should never be changed.

3. After connection Log-In by clicking on the “User” at the bottom right of the Screen. Ensure that the User is already listed as a User in Server settings Security section.



User Login

3 Plan configuration

Accord Plan provides the ability to set up sequences of Programs to be run automatically, with selected Recipes for options, step options and setpoints.

Plans can be configured in two different modes: basic and advanced. Plan mode can be configured when editing or adding a Plan.

Plan in Basic Mode:

- Plan steps executed in sequence, based on Plan Row Configuration, when a selected condition is met, the plan the steps into the next row.
- Plan cannot start another Plan.

Plan in Advanced Mode:

- Uses “Step To” Configurations. Plan can be setup to step to a definable Plan step. A list of “Step To” can be configured per plan row. Each step to can be configure with a destination and a condition to be met. Once the condition is met, the Plan steps to relative step to destination. This can be accessed through the “Trigger”.
- Plan can start another Plan. This is to allow users to create and test reusable small plans. Once tested, these Plans can then be combined to complete a more complex function. There is a limitation of 3 levels of nesting within a Plan.

An example of this level limitation is below. There is a “General Plan” with tasks within, which again, contains tasks within. These tasks are Plans. When “General Plan” is started, it can start all of these Plans nested within. Accord Plan with not allow for the selection on another Plan within “General Plan Task 1 Function X”.

- General Plan
 - General Plan Task 1
 - General Plan Task 1 Function 1
 - General Plan Task 1 Function 2
 - General Plan Task 2
 - General Plan Task 3

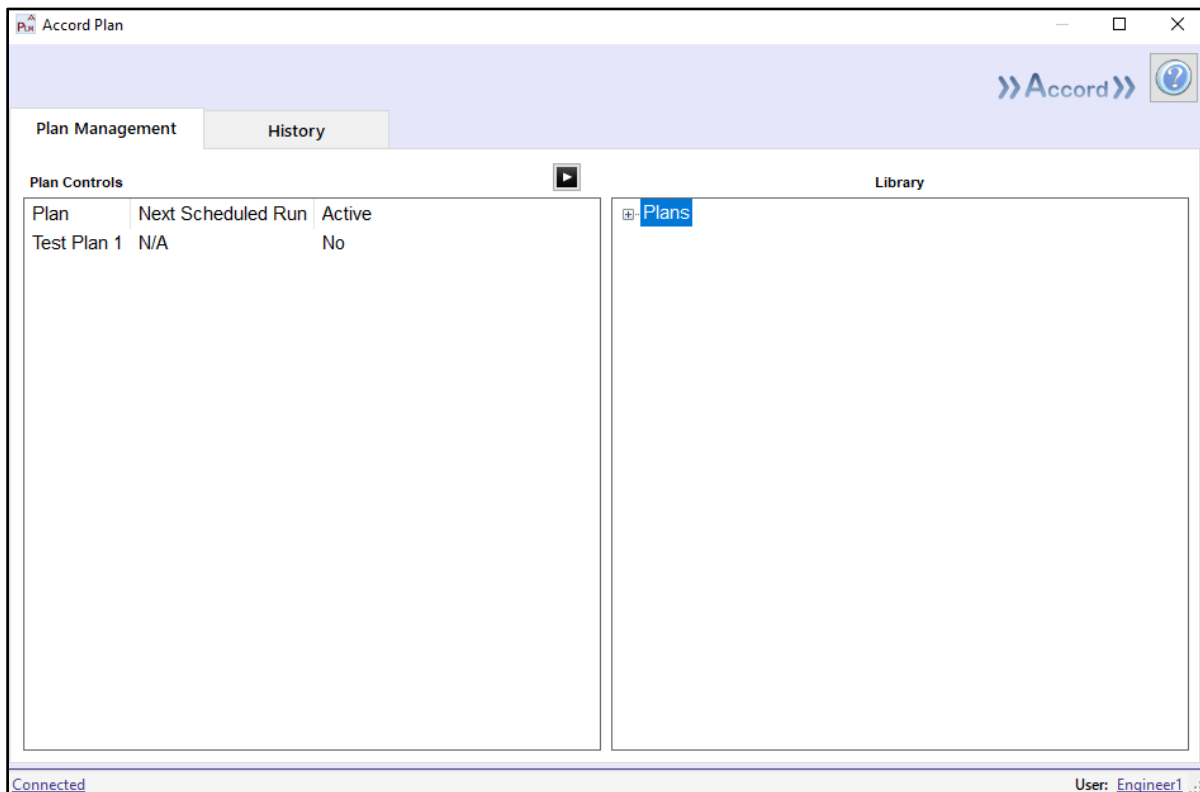
3.1 Starting Plan

3.1.1 Plan Manager

When starting Accord Plan, the initial screen is presented.

Please ensure:

1. Service is Connected in Bottom left of panel.
2. Login is completed by clicking on the User section.



Initial Screen

On initial launch of Accord Plan, the Plan Manager screen will be presented. The Plan Manager screen is broken into two sections.

One the right, Plans can be created and configured. Once the Plan is built, it can then be dragged to the left, which enables Plan Controls.

1. Plan Controls
 - a. Lefthand side of Plan Manager.
 - b. Clicking on a Plan allows for Plan Controls. These controls include actions such as; Start, Stop and Resume of the selected Plan. A Plan can be started by selecting the Plan and pressing the start button above the Plan Controls. A Plan can also be started by doubling clicking a Plan and selecting start.

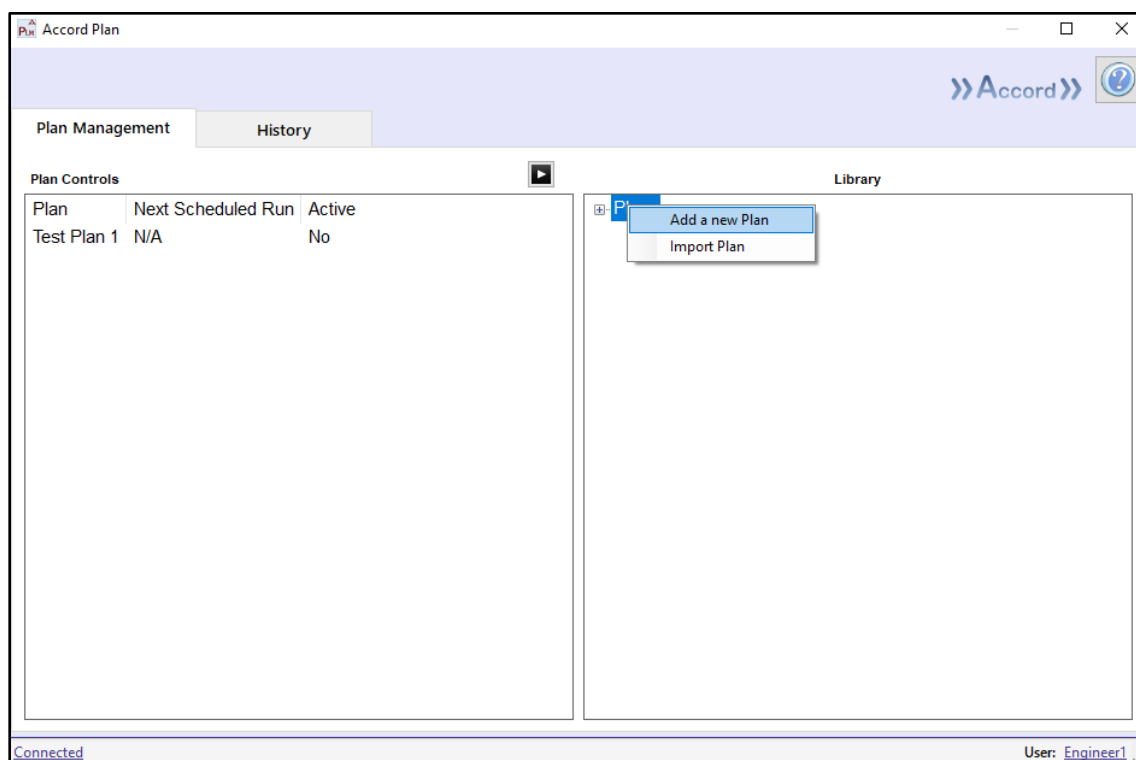
- c. Plan status is shown in the “Active” column. If a Plan is running, active will be displayed as “Yes”.
- d. Double clicking a Plan will display a Plan details popup. This popup includes:
 - i. Plan History
 - ii. Full Plan Controls.
 - iii. Plan Status details.

2. Library

- a. Righthand side of Plan Manager.
- b. Right Clicking allows for addition of a new plan or for the import of an existing Plan.
- c. Create new plans, modify, and delete existing one’s when required.

3.1.2 Creating a Plan

Right Click on the ‘Plans’ drop-down tree on the right plane and select “Add a New Plan” from the drop-down menu.



Add New Plan

Plan Configuration Form is presented.

3.2 Plan Configuration

The Plan configuration is presented as Rows and Columns, where each Row is a separate action to be carried out by Plan Manager and the columns provide configuration of the action.

New Plan Start Screen

Plan Name: This name will appear in Plan Manager as the Plan name once the Plan is Saved and Closed.

Next Run: Used to run a Plan at a predefined time. To enable, select the check box and input the required Plan start time.

Repeat: If a Plan is setup to run at a predefined time, the Plan can be setup to run on a schedule. If the Plan is Inactive after running, the Plan will begin again automatically once the Plan has been Inactive for the duration of the Repeat time. This will loop until disabled in the Plan. This can be setup by selecting the repeat check box and input the desired repeat time. The units of time also need to be defined.



Up Arrow: Move the current selected row up one row of the Plan.



Down Arrow: Move the currently selected row down one row of the Plan.



Add Row: Add an additional blank row to the Plan.



Delete Row: Removes the selected row from the Plan.



Edit Row: Opens a popup to edit the selected row of the plan.



Export: Export the Plan to a definable destination folder on the PC.

Advanced: Select to toggle between Plan advanced mode and basic mode.

Generate Report: If selected, on Plan completion a Report can be automatically generated for the opened Plan. A destination folder must be selected.

Save: Saves and closes the opened Plan.

Save As: Option available while saving an existing Plan. When selected, an additional Plan name is requested. Then entered and confirmed, the Plan will be saved under the new name as a copy.

Close: Close the opened Plan Configuration.

3.3 Plan Row Configuration

3.3.1 General Configuration

To Configure a Plan, follow the initial steps.

1. Enter a name for the Plan.
2. Provide a next run time and date. (If required)
3. Provide a repeat interval number and time span. (If required)
4. Select the associated Plan Report and a location for storing Plan Reports. (If required)
5. Select Advanced Mode if intended to start other Plan from current plan, or if the required step order is not sequential.

3.3.2 Row Details

Click Add Row button to add a new row and configure the Plan step, Plan Row Details screen is presented. This Popups is broken down into 3 sections.

Continue to add rows until the Plan can perform the required sequence of tasks. Row creation is described in points 1-8 below.

Action: Add Plan row name. This name will appear in the Plan and Plan manager once saved. Item is used to select the type of action this Plan row should perform.

Controls can be disabled for the Programs currently controlled by the Plan. If “Disable Controls” is selected, Program controls are disabled on the HMI.

Target: Select which object to apply the Action on.

Enabler: Available in Basic Mode only. When the enabler condition is met, the Plan will step on to the next row. When in Advanced mode, this section will not appear.

1. Enter Plan Step Title into to the designated location.
2. Select required type from the “Item” dropdown menu. Selection here will change both the target and enabler options.

The following item types are selectable:

Program -	Selection of a Program in the Project
Wait -	Pause for a period of Seconds.
Setpoint -	Selection of a Program Setpoint for changing.
Digital Device -	Selection of a Digital Device for Manual Activation
Analog Device -	Selection of an Analog Device for Manual Value
Decision -	Selection of a decision for state change
PID Loop -	Selection of PID Loop for Manual Operation
HMI Prompt -	Generate popup window for operator input.

New Plan Item Selection

Configure the “Target” item, using the dropdown menus.

3. Select Project name from the dropdown. This will filter target items, only showing items for the selected Project.

Project Name: Name of the Accord Model the target item is in.

New Plan Project Name Selection

4. Select the device to target with this Plan row.

Name: This dropdown is populated based on Item selection. This can include a list of Programs, Steps, Setpoints, Digital Devices, Analog Device, Decisions or PID Loops.

5. Select Property from the dropdown list. See the table below for available Items, Properties, and associated Values.

Property: This field requires population for Analog Devices, Digital Devices, and PID Loops. Property allows selection of writing a device to manual mode or writing and activation value to the device.

The following Properties and Values are selectable:

<u>Item:</u>	<u>Property:</u>	<u>Values:</u>
Program	Command	Start, End, Hold, Restart, Step On, Step Change, Disable Step On, Enable Step On,
Wait		
Setpoint	Setpoint	Desired Value for Setpoint
Digital Device	Manual Mode Manual Command	True or False

Analog Device	Manual Mode Manual Value	True or False Desired Manual Value for Device
Decision	Result	True or False
PID Loop	Manual Mode Manual Value	True or False Desired Manual Value for Loop

6. Select Value from the dropdown list. See the table above for available Items, Properties, and associated Values.

Value: This field requires population for Programs, Setpoints, Digital Devices, Analog Devices, Decisions, and PID Loops. This is the value to write to the device.

7. If the Plan row is required to start a program, select the required Recipe. This Recipe will be loaded to the PLC prior to the start of the program.

Recipe: This list is based off the Accord Recipe system. Any recipes created for the selected program will be displayed here. If no recipe is required, this field can be left as "Default".

8. Fill in the required Enable Next Row and Enabler Value columns. These will ensure that the next action on the next row in the Plan can be carried out.

Enable Next Row: Selection of the type of item to enable the next row within the Plan.

Project Name: Selection of which project the "Enabler Value" required is in.

Enabler Values: Filtered by the "Enable Next Row", this is a list of all selectable items from the Model. If delay is selected, add the required delay period into the "Enabler Value", the delay period is in seconds. Delay is a period in which the Plan program will pause, prior to commencing the action of the next row.

<u>Enable Next Row:</u>	<u>Enabler Values:</u>	Explanation Next Row is enabled when:
Program Finished	Program Name	Selected Program is completed or ended
Program in Step	Program@Step	Selected Program is active in the selected Step
No Delay		Immediately
Delay	Delay Value (Integer)	After the Delay value of Seconds
Decision True	Decision Name	Selected Decision is True
Condition True	Condition Name	Selected Condition is True
Decision False	Decision Name	Selected Decision is False
Condition False	Condition Name	Selected Condition is False

Plan Row Details

Title: Start Pre-Rinse Program

Item: Program

Disable Controls: ☒

Target

Project Name: LP CMO CIP

Name: Pre-Rinse

Property: Command

Recipe: Default

Value: Start

Enabler

Enable Next Row: Program In Step

Project Name: LP CMO CIP

Enabler: Pre-Rinse @ Pre-Rinse - Startup Step

Description:

Save Close

Configured Row

Once complete, check if all Plan Row settings are filled correctly and press the Save button.

The saved Step is now displayed in the Plan Configuration form. Continue adding steps until the Plan is completed as required. This consists of repeating steps 1-8 above.

Plan Configuration

Plan Name: CMO CIP Plan Next Run: ☒ 11 Oct 2023 17:00:00 Repeat: ☒ 1 Days

Row	Title	Item	Project Name	Name	Property	Value	Recipe	Enable Next	Enabler	Project	Enabler	Description	Disable Controls
1	Start Pre-Rin	Program	LP CMO CIP	Pre-Rinse	Command	Start	Default	Program In S	LP CMO CIP	Pre-Rinse @		True	

Advanced Mode: ☐ Generate Report: ☐ No Entries Found [Browse]

Save Save As Close

Plan Row Configuration

3.4 HMI Prompt Configuration

It is possible to make an HMI prompt appear as part of a Plan. This prompt is selectable as part of a row Item. When selected a “Configure Prompt” button will appear. If selected the below popup will appear and the HMI Prompt can be configured.

When this row is active within a Plan, a popup window will appear. “Confirm” must be pressed here to step the plan onto the next row.

Plan Configuration

Title: Initial Reading

Message: Please enter the RFID Number and Operator Name before starting this Plan

Show HMI Popup: ☒ LP CMO HMI RFID - TK201

Is Signature Required: ☐

Item 1: ☒ Text RFID

Item 2: ☐

Item 3: ☒ Text Operator

Item 4: ☐

Background Color: ☐

Foreground Color: ☐

Save Close

Configure Prompt

To configure the prompt:

1. Enter the title for the generated Prompt window. This will appear on the top of the prompt.
2. Enter the message to be displayed in the generated Prompt window.
3. If an additional window is required, it must first be configured in HMI Design.
 - a. The HMI containing the Popup Window must be configured and deployed.
 - b. Please refer to the User Guide for HMI Design for deploying an HMI to HMI Server.
 - c. Select the target HMI project from the first drop down list and the required HMI popup from the second drop down list.
4. If a signature is required for this HMI prompt, tick the check box in the “Is Signature Required” section.

5. Multiple items may be configured for each HMI Prompt. For each required item the following configuration is required:
 - a. Tick the check box.
 - b. Select the item type.
 - c. Enter the text to be displayed in the prompt window.

3.5 Plan Advanced Mode

Advanced mode allows for two core functions:

1. Multiple enablers with destination steps available.
2. The ability to start a Plan inside a Plan.

Note: It is possible to revert back to the normal mode if there are no Plans started within the Plan. If changing between modes, triggers are not carried over. If triggers are built in normal mode and you enter advanced mode they will need to be built again. Once these triggers are configured, they are stored and toggling between the two modes will not delete them.

To configure steps in advanced mode, please follow points 1-5 below.

1. Enable Advanced Mode in Plan Configuration Form by ticking checkbox.

The screenshot shows the 'Plan Configuration' window. At the top, there are fields for 'Plan Name' (CMO CIP Plan), 'Next Run' (11 Oct 2023 17:00:00), and 'Repeat' (1). Below these is a table with columns: Row, Title, Item, Project Name, Name, Property, Value, Recipe, Enabler, Description, and Disable Controls. The table has two rows: Row 1 (Start Pre-Rin Program) and Row 2 (Prompt Conf HMI Prompt). At the bottom of the window, the 'Advanced Mode' checkbox is checked and circled in red. Other options include 'Generate Report' (unchecked) and a 'No Entries Found' message. Buttons for 'Save', 'Save As', and 'Close' are at the bottom.

Row	Title	Item	Project Name	Name	Property	Value	Recipe	Enabler	Description	Disable Controls
1	Start Pre-Rin	Program	LP CMO CIP	Pre-Rinse	Command	Start	Default	Trigger		True
2	Prompt Conf	HMI Prompt	LP CMO CIP					Trigger		False

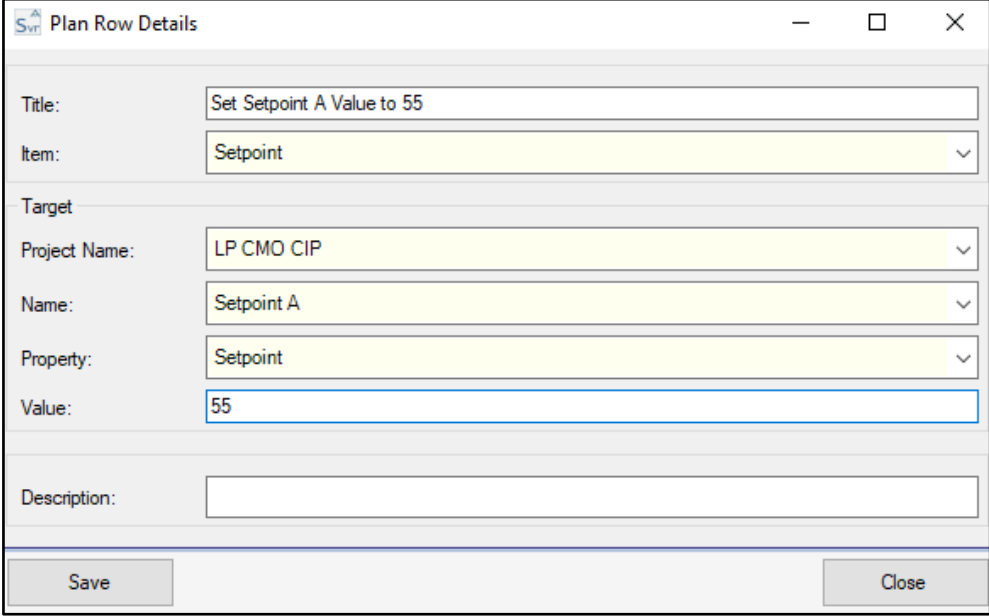
Select Advanced Mode

2. Add an additional row or edit an existing row.

Configure the Plan Action and Target as per a normal Plan.

An additional “Item” is now selectable. This is “Start Plan”. The required Plan to start must then be selected.

Note: In Advanced Mode there is less details which must be configured. The Enabler setup has been removed from this popup. Advanced Mode can have a multiple Enabler Types and Enabler Values and they are configured separately.



The screenshot shows a 'Plan Row Details' dialog box with the following fields and values:

- Title: Set Setpoint A Value to 55
- Item: Setpoint
- Target: (empty)
- Project Name: LP CMO CIP
- Name: Setpoint A
- Property: Setpoint
- Value: 55
- Description: (empty)

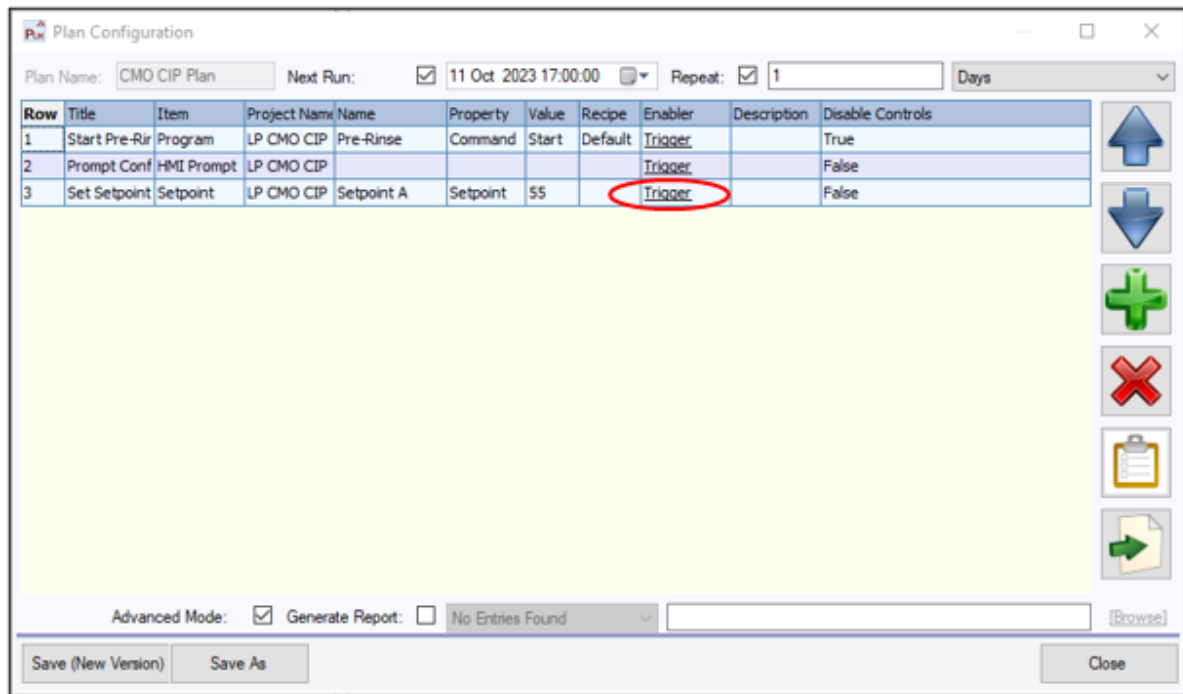
At the bottom of the dialog are 'Save' and 'Close' buttons.

Plan Row Configuration in Advanced Mode

3. Save the Plan Row Configuration.

Configure the Plan Enablers.

These can be access in Plan Configuration by clicking “Trigger” in the “Enabler” column for the desired row.



The screenshot shows the 'Plan Configuration' window. At the top, there are fields for 'Plan Name' (CMO CIP Plan), 'Next Run' (11 Oct 2023 17:00:00), and 'Repeat' (1). Below these is a table with the following data:

Row	Title	Item	Project Name	Name	Property	Value	Recipe	Enabler	Description	Disable Controls
1	Start Pre-Rin	Program	LP CMO CIP	Pre-Rinse	Command	Start	Default	Trigger		True
2	Prompt Conf	HMI Prompt	LP CMO CIP					Trigger		False
3	Set Setpoint	Setpoint	LP CMO CIP	Setpoint A	Setpoint	55		Trigger		False

The 'Trigger' text in the 'Enabler' column of row 3 is circled in red. To the right of the table are icons for up/down arrows, add (+), delete (X), and a clipboard. At the bottom, there are checkboxes for 'Advanced Mode' (checked) and 'Generate Report' (unchecked), a 'No Entries Found' message, and buttons for 'Save (New Version)', 'Save As', and 'Close'.

Access Row Step to Configuration Form

- Once presented with the “Step On Configuration” popup, press the plus to add an additional row.

Plan - CMO CIP Plan - Step On Configuration

Step Name: Set Setpoint A Value to 55

Row	Enabler Project	Enabler Type	Enabler	Step To	Duration
-----	-----------------	--------------	---------	---------	----------

Save Close

Row Step to Configuration Form

- Within the new row, populate each column as per a normal Plan.

Step To: Multiple steps are possible, with multiple destinations. Within the “Step To” column, add the destination step. The Plan will step here once the enabler has been achieved. **If no “Step To” destination is selected and the enabler is TRUE, this will END the Plan.**

Duration: If “Delay” is selected for the enabler type, the duration is input here. This duration is in seconds.

Below are screenshots of an example enabler being created.

Selecting the Model for the required enabler.

Plan - CMO CIP Plan - Step On Configuration

Step Name: Set Setpoint A Value to 55

Row	Enabler Project	Enabler Type	Enabler	Step To	Duration
1	LP CMO CIP				

Save Close

Select Enabler Project Name

Selecting the enabler type.

Plan - CMO CIP Plan - Step On Configuration

Step Name: Set Setpoint A Value to 55

Row	Enabler Project	Enabler Type	Enabler	Step To	Duration
1	LP CMO CIP	<ul style="list-style-type: none"> Program Finished Program In Step No Delay Delay Decision True Condition True Plan Completed Decision False Condition False 			

Save Close

Select Enabler Type

Selecting the enabler condition.

Plan - CMO CIP Plan - Step On Configuration

Step Name: Set Setpoint A Value to 55

Row	Enabler Project	Enabler Type	Enabler	Step To	Duration
1	LP CMO CIP	Decision False	Decision A Decision B Decision C Decision D		

Save Close

Select Enabler Name

Selecting the step require once the enabler condition is achieved.

Plan - CMO CIP Plan - Step On Configuration

Step Name: Set Setpoint A Value to 55

Row	Enabler Project	Enabler Type	Enabler	Step To	Duration
1	LP CMO CIP	Decision False	Decision C	Start Pre-Rinse Program Prompt Configuration	

Save Close

Select Step to Value

Plan step enabler trigger in advanced mode with two completed enablers.

Step To Configuration below shows the rows, with Delay and No Delay Enabler Type configurations.

Plan - CMO CIP Plan - Step On Configuration

Step Name: Set Setpoint A Value to 55

Row	Enabler Project	Enabler Type	Enabler	Step To	Duration
1	LP CMO CIP	No Delay		Prompt Configuration	
2	LP CMO CIP	Delay		Prompt Configuration	5

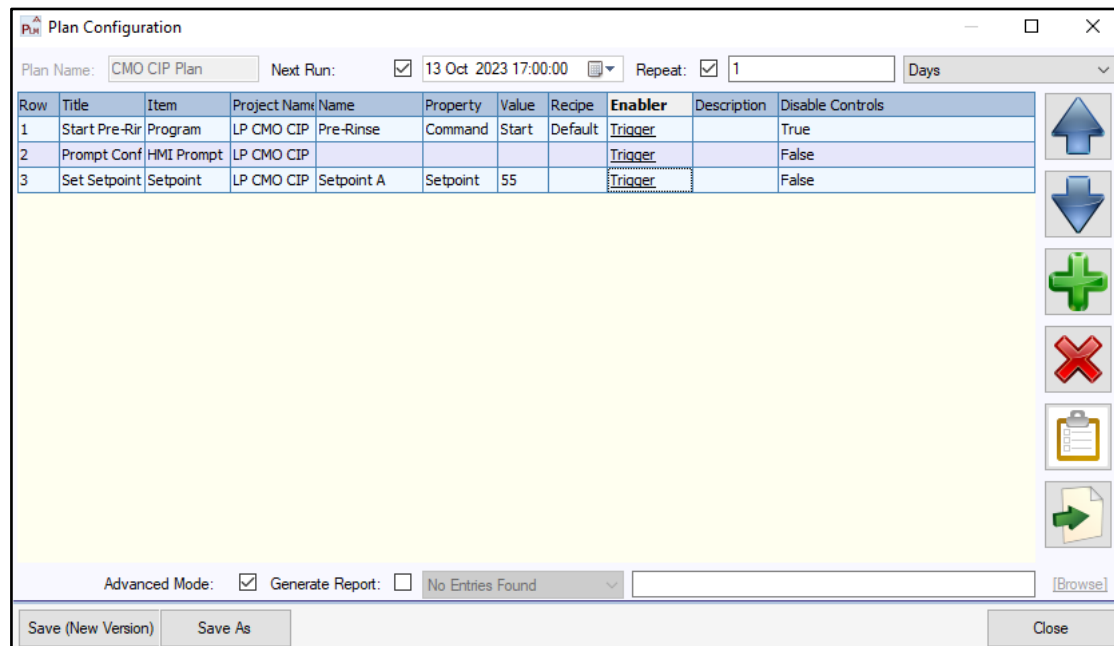
Save Close

Step To Configuration with Delay and No Delay

- Once Enablers for the row have been configured as desired, pressing the save button will exit the popup and return back to the Plan Configuration.

3.6 Save the Plan

Once the Plan is configured, click Save or Save As to store plan. If this is a new Plan, the Plan will then appear on the righthand side of the Plan Manager in the Library.



The screenshot shows the 'Plan Configuration' window. At the top, there are fields for 'Plan Name' (CMO CIP Plan), 'Next Run' (13 Oct 2023 17:00:00), and 'Repeat' (1 Days). Below this is a table with the following data:

Row	Title	Item	Project Name	Name	Property	Value	Recipe	Enabler	Description	Disable Controls
1	Start Pre-Rin	Program	LP CMO CIP	Pre-Rinse	Command	Start	Default	Trigger		True
2	Prompt Conf	HMI Prompt	LP CMO CIP					Trigger		False
3	Set Setpoint	Setpoint	LP CMO CIP	Setpoint A	Setpoint	55		Trigger		False

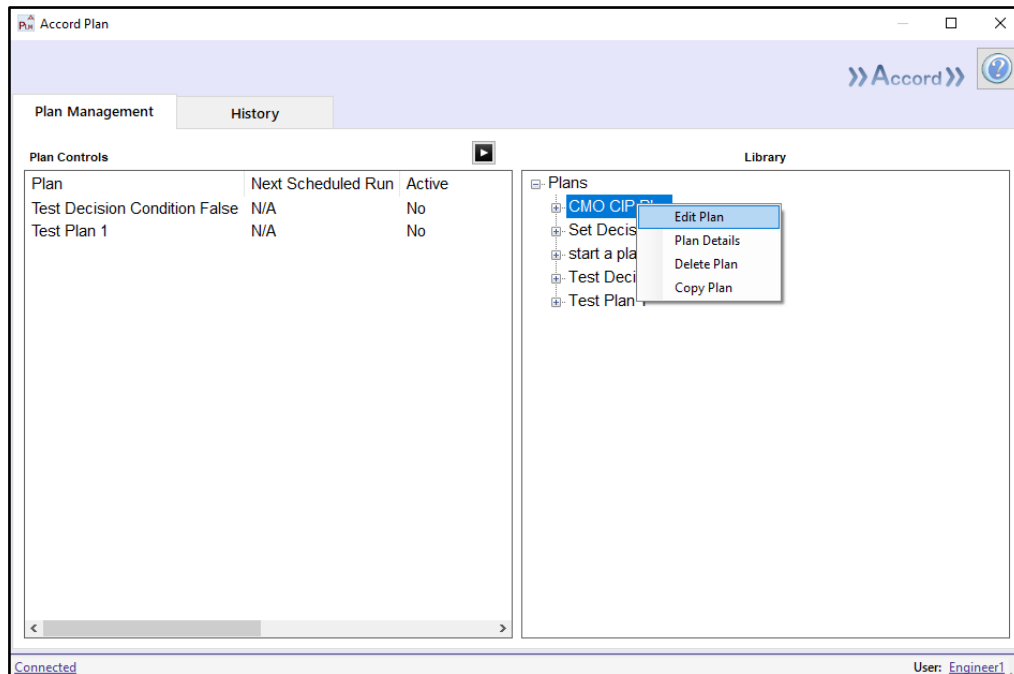
Below the table, there are checkboxes for 'Advanced Mode' (checked) and 'Generate Report' (unchecked). A status bar at the bottom shows 'No Entries Found' and a 'Browse' button. At the very bottom, there are 'Save (New Version)', 'Save As', and 'Close' buttons.

Plan Configuration to be Saved.

3.7 Export Plan

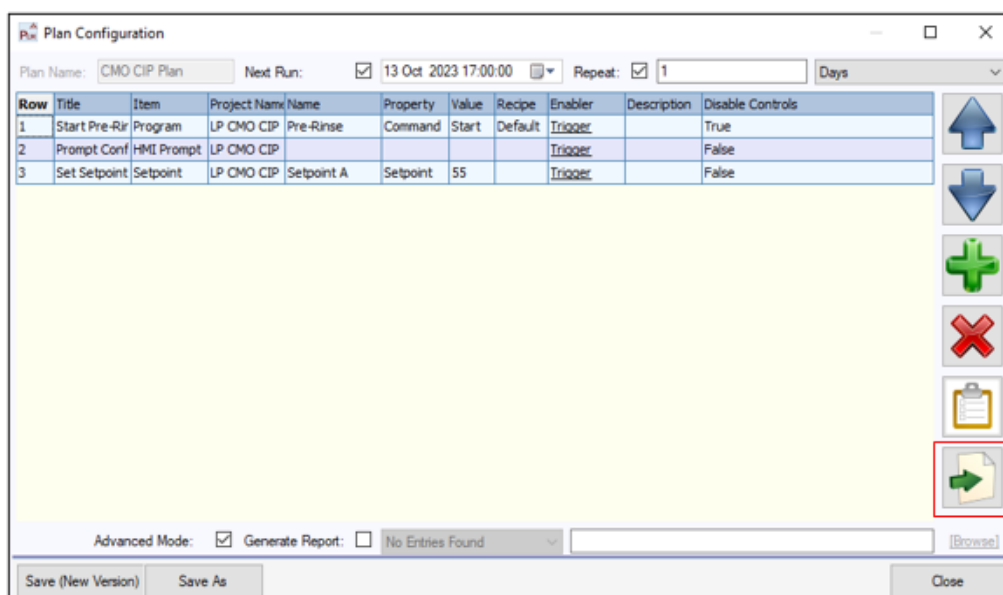
To export a Plan:

1. In Plan Manager right click on the required Plan within the Library, from the drop-down menu select and click Edit Plan.



Edit Plan

2. Click the Export Plan button in Plan Configuration.



Export Plan

3. Define the Plan destination and save. Plan is exported into .acp file and stored into user selected location.

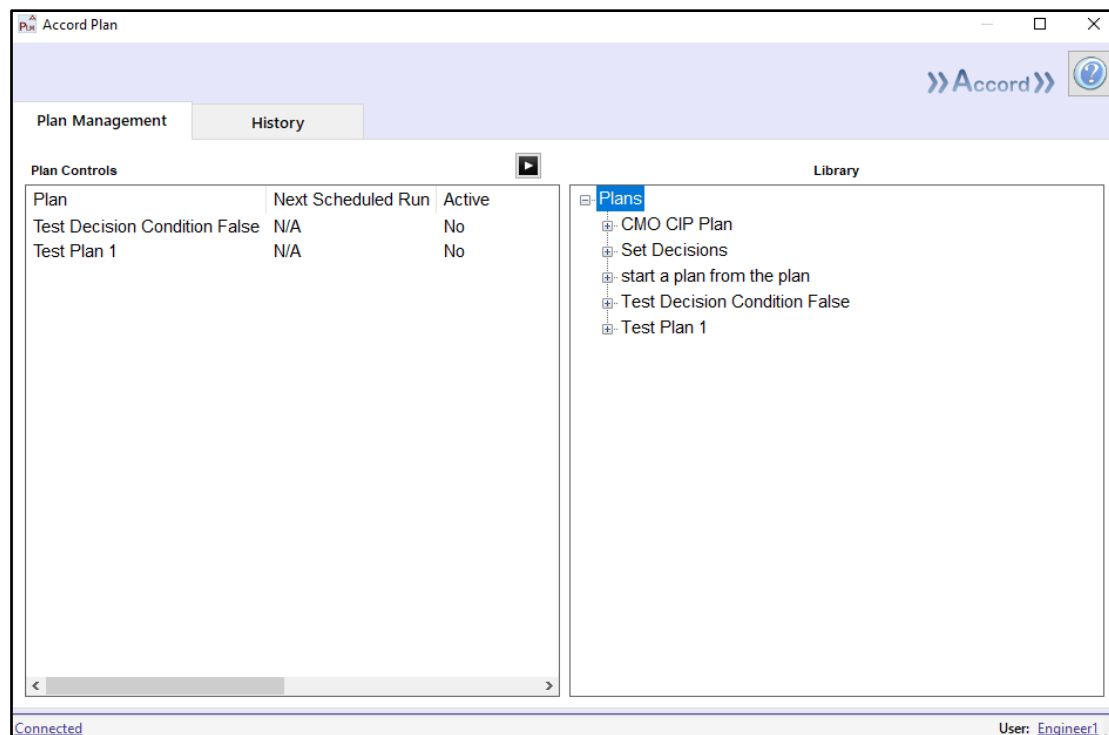
4 Plan Manager Screens

4.1 Summary

This screen shows all controllable and created Plans.

When a Plan is saved, it is displayed on the right. When a Plan is dragged from the right to the left, it can be started manually.

Additional screens are available from the Plan Manager, this section will describe these popups and their functionality.

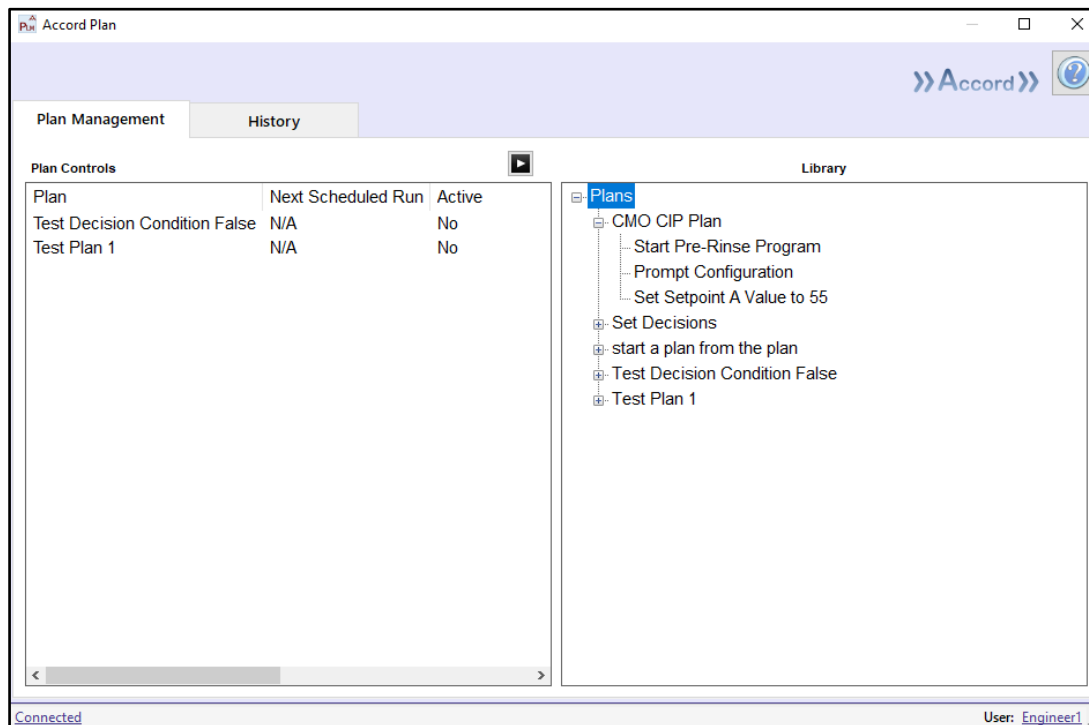


Saved Plans

4.2 Functionality

At the left of each Plan title within the library, there is a plus control which when clicked on allows to see all the steps of that Plan. These Plan step names are populated by giving each Plan row a name within the editor. These names can be used to breakdown the actions performed within a Plan.

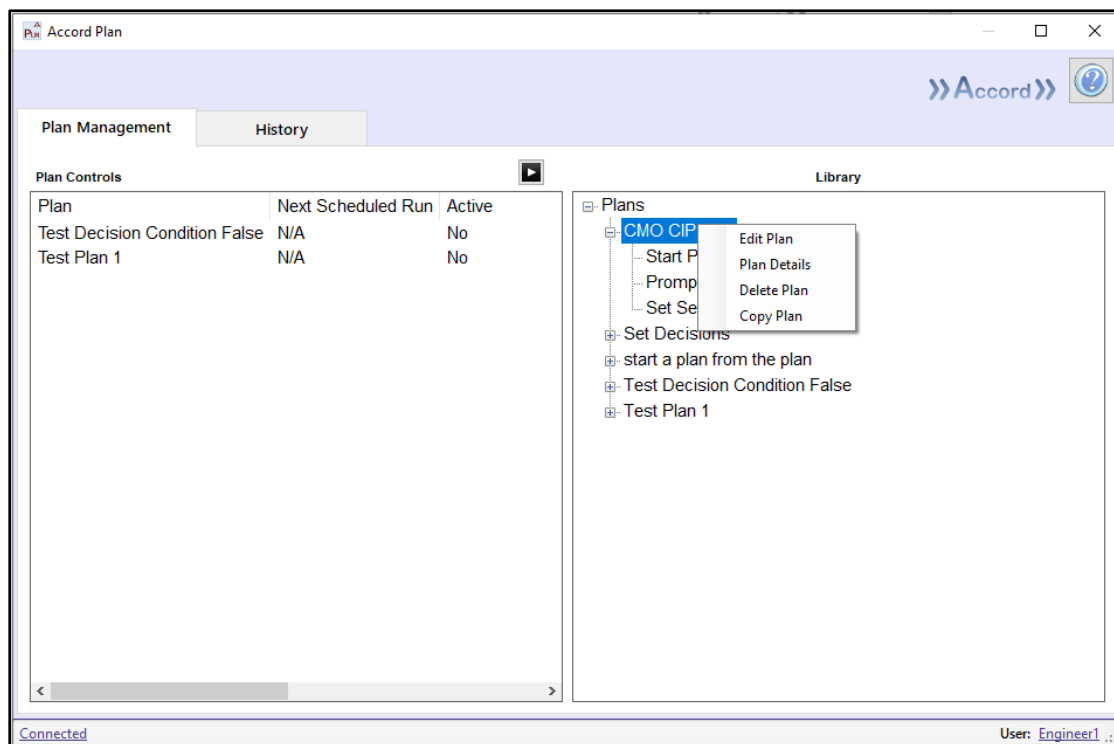
If a Plan is in advanced mode with a nested Plan, the nested Plan will appear here. It is then possible to open the nested Plan and view its steps.



Plan Steps

Right click on the title of the Plan. Drop-down menu displayed with available choices of:

- **Edit Plan:** Menu selection opens Plan Configuration Form where new Rows can be added, or old ones reconfigured for the selected Plan.
- **Delete Plan:** Menu selection used to remove Plan.
- **Copy plan:** Menu selection enables user to create a copy of the Plan under the new Plan Title.
- **Plan Details:** Menu selection opens Form which displays all the steps of the Plan. This is especially useful when Plan has a lot of Rows configured and contains multiple Plans within.



Plan Drop-Down Menu

Plan details gives a full breakdown of all steps within a Plan. This breakdown also includes all nested Plans and their steps.

If an advanced Plan, triggers can also be accessed here.

Plan - CMO CIP Plan - Step Details									
Row	Title	Item	Name	Property	Value	Recipe	Enabler	Description	Disable Controls
1	Start Pre-Rinse	Program	Pre-Rinse	Command	1	Default	Trigger		True
2	Prompt Confirmation	HMI Prompt					Trigger		False
3	Set Setpoint	Setpoint	Setpoint A	Setpoint	55		Trigger		False

Export

Close

Plan Details

If required, Plan Details can be exported, using the export button at the bottom left corner. This will export to a word document.

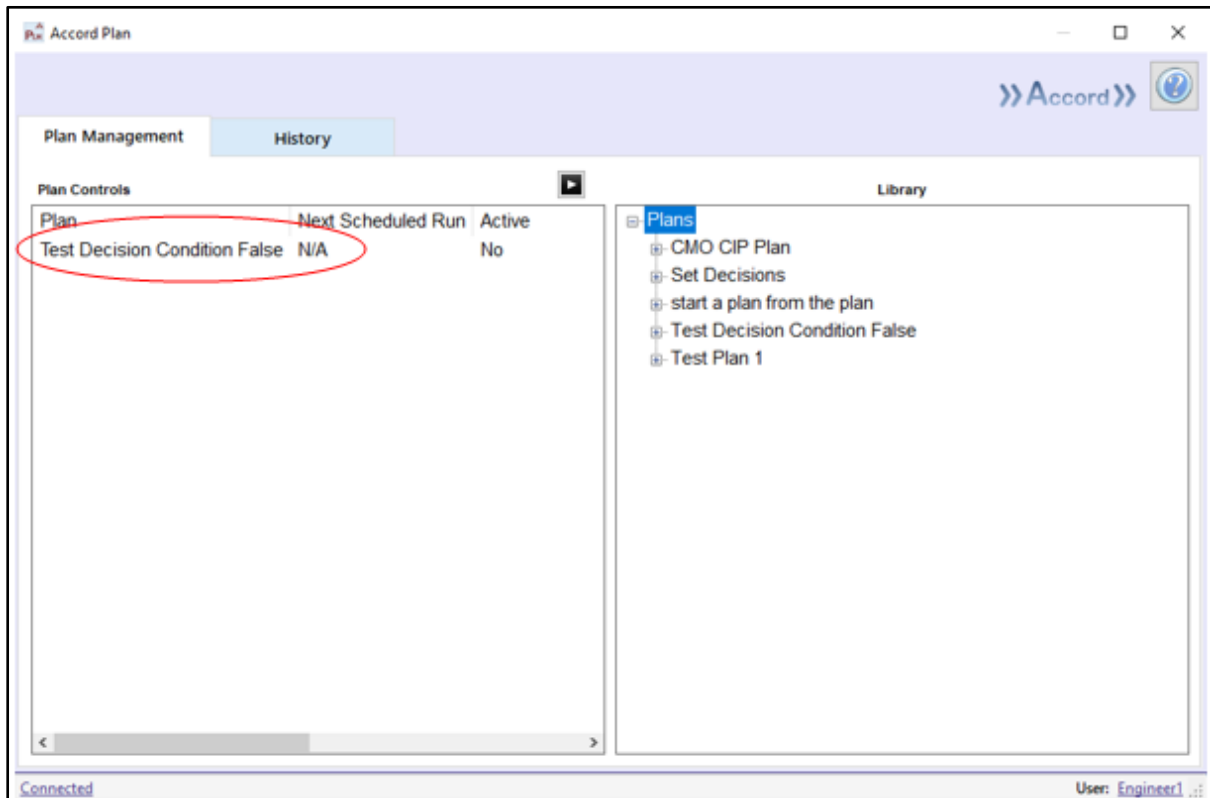
CMO CIP Plan Plan Configuration:									
13 Oct 2023 »Accord»									
Step	Step Type	Project Name	Item Name	Item Property	Item Value	Recipe Name	Enabler Type	Enabler Value	Disable Controls
1	Program	LP CMO CIP	Pre-Rinse	Command	1	Default	Program In Step	Pre-Rinse @ Pre-Rinse - Startup Step	True
2	HMI Prompt	LP CMO CIP					Prompt Confirmation		False
3	Setpoint	LP CMO CIP	Setpoint A	Setpoint	55		Program Finished	0 Safety	False

Exported Plan Details

5.3 Plan Controls

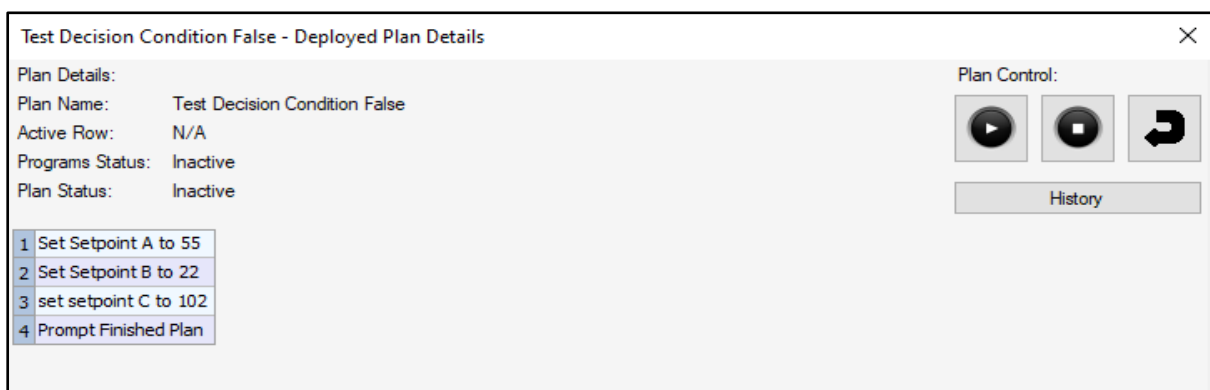
To enable manual operation of a Plan, left click and hold the Plan within the library. Drag the Plan into the Plan Controls on the left. Once achieved, the Plan name, its next scheduled run and its active status will appear on the left. This is shown in the image below.

Scheduled Plans that are not dragged to the left are still started. Scheduled Plans can be dragged to the left to view and control.



Plan Selected for Operating

Additional Plan information from Plan controls can be reached by double clicking the Plan name on the left. This is shown below.



Plan Runtime Form

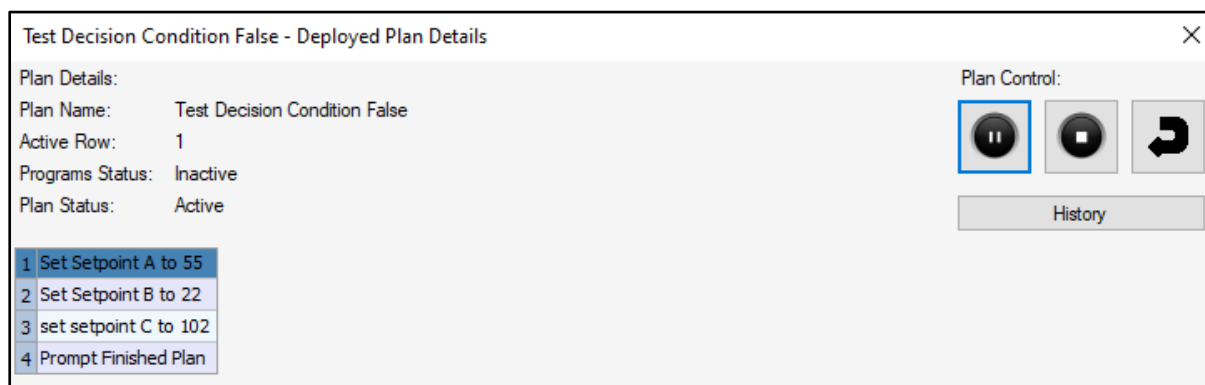
On the right side of the form Plan details are displayed:

- **Plan Name:** Name given to the Plan.
- **Active Row:** If the Plan is active, this displays the number of the current active Plan row.
- **Program Status:** Shows a combined current status of Model programs which are currently controlled by the Plan. This includes; Active, Inactive, Hold, Alarm
- **Plan Status:** Active, Inactive, Paused or Error.
- List all steps within the Plan, and all steps nested within the Plan.

It is possible to control a Plan from this popup. This is done using the three buttons on the right.

- **Start/Hold Plan:** If the Plan is inactive, it may be started here. If the plan is Active it may be paused here. This will also give the option to pause all programs while pausing the Plan.
- **Stop Plan:** If a Plan is active, this will stop the Plan. This will also give the option to stop all programs that the Plan is currently running.
- **Step through:** To move to the next Plan Row.
- **History button:** Opens form with the completed Plans history. This shows historical Plan run details.

Image below shows Plan at the first Row.



Active Plan Row

Blue colour highlights active Row of the Plan. Plan status has changed from inactive to active.

5.4 Plan History

Once a Plan has finished, its details are stored within History. When pressed, the below screen appears.

Plan Id	Plan Name	Start	End
15	Test Decision Condition False	13/10/23 11:32:52	13/10/23 11:34:00
16	Test Decision Condition False	13/10/23 11:34:44	13/10/23 11:35:04
17	Test Decision Condition False	16/10/23 09:39:04	16/10/23 09:45:13
18	Test Decision Condition False	16/10/23 09:45:29	16/10/23 09:46:38

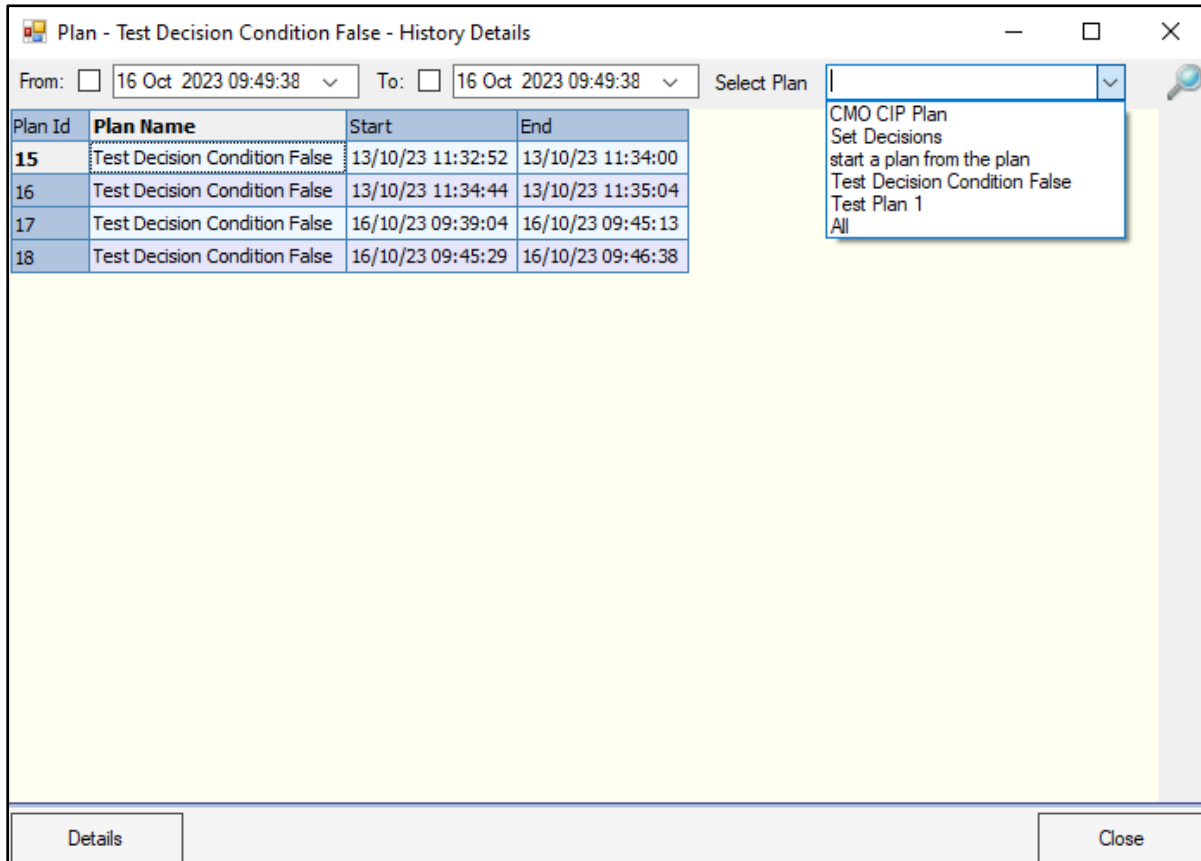
Plan History

Plan history table shows all finished executions of the selected plan. Plan Name together with Plan start and Plan end time is displayed.

Search configuration is available.

- Start time can be set by ticking **“From”** checkbox and selecting desired time.
- End time can be set by ticking **“To”** checkbox and selecting desired time.

- Other plans can be viewed if Selected Plan name is changed in the drop-down selection.



Plan - Test Decision Condition False - History Details

From: ☐ 16 Oct 2023 09:49:38 To: ☐ 16 Oct 2023 09:49:38 Select Plan

Plan Id	Plan Name	Start	End
15	Test Decision Condition False	13/10/23 11:32:52	13/10/23 11:34:00
16	Test Decision Condition False	13/10/23 11:34:44	13/10/23 11:35:04
17	Test Decision Condition False	16/10/23 09:39:04	16/10/23 09:45:13
18	Test Decision Condition False	16/10/23 09:45:29	16/10/23 09:46:38

CMO CIP Plan
Set Decisions
start a plan from the plan
Test Decision Condition False
Test Plan 1
All

Details Close

Select Available Plans

All the plan names are displayed in the drop-down list. Select desired Plan and click search icon just to the right of drop-down list. If All is selected instead of particular Plan name all available histories will be loaded.

Plan - Test Decision Condition False - History Details			
From: <input type="text" value="16 Oct 2023 10:02:04"/>		To: <input type="text" value="16 Oct 2023 10:02:04"/>	
Select Plan		<input type="text" value="All"/>	
Plan Id	Plan Name	Start	End
1	Test Plan 1	02/10/23 09:51:47	02/10/23 09:52:12
2	Test Plan 1	02/10/23 09:52:39	02/10/23 09:54:57
3	Test Plan 1	02/10/23 09:58:53	02/10/23 10:00:16
4	Test Plan 1	02/10/23 10:00:21	02/10/23 10:02:20
5	Test Plan 1	02/10/23 10:02:47	02/10/23 10:08:37
6	Test Plan 1	02/10/23 12:47:36	02/10/23 12:49:30
7	Test Plan 1	02/10/23 12:50:34	02/10/23 12:52:13
8	Test Plan 1	02/10/23 13:00:21	02/10/23 13:01:59
9	Test Plan 1	02/10/23 14:07:41	02/10/23 14:09:24
10	Test Plan 1	02/10/23 14:10:15	02/10/23 14:10:25
11	Test Plan 1	02/10/23 14:13:45	02/10/23 14:15:49
12	Test Plan 1	02/10/23 14:21:32	02/10/23 14:25:42
13	Test Plan 1	02/10/23 14:31:53	02/10/23 14:34:17
14	Test Plan 1	02/10/23 14:34:35	02/10/23 14:34:43
15	Test Decision Condition False	13/10/23 11:32:52	13/10/23 11:34:00
16	Test Decision Condition False	13/10/23 11:34:44	13/10/23 11:35:04
17	Test Decision Condition False	16/10/23 09:39:04	16/10/23 09:45:13
18	Test Decision Condition False	16/10/23 09:45:29	16/10/23 09:46:38

Details

Close

All Plans History

Image above shows the histories of all completed Plans in displayed in the table.