

# Recipe Management

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## 1 General information

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<b>Version:</b> 1.0.0.1	
<b>Short description</b>  This example demonstrates the use of the Recipe Manager. Recipes can be used for setting and watching control parameters on the PLC. For this purpose they can be read from and written to the PLC. It is also possible to save and load recipes via visualization.	

## 2 Requirements and restrictions

<b>Programming system</b>	CODESYS Development System Version 3.5.3.0 or higher
<b>Target system</b>	CODESYS Control Version 3.5.3.0
<b>Supported Platforms / Devices</b>	Notice: Use the project 'Device Reader' to find out the supported features of your device. 'Device Reader' is available for free in the CODESYS Store.
<b>Additional requirements</b>	-
<b>Restrictions</b>	-

### 3 Price

This example is for free

### 4 Product description

The visualization includes several information and functions in order to work with recipes. Each recipe definition can have several recipes with defined values for a variable. All recipes from the current definition are listed in one table and their values in another one. The visualization includes all supported execute commands for recipes, like "write", "create", "load", "recipe" etc.

### 5 Technical description

`PLC_PRG`: Includes two variables, whose values are changed by the recipes.

`RecipePrg`: Initially all recipes from the current definition, saved in `sRecipeDef`, are counted and stored in an array with its variables. Afterwards the currently selected recipe index, which is set in the visualization, is checked for changes and loads the values from the currently selected recipe. The saving of variables and reload of the recipes is done when the trigger gets set in the visualization.


`RecipeManager`: The Manager includes two recipe definitions, each with two recipes. The recipes include two values for the `i` and `dw` variable stored in `PLC_PRG`. Each recipe sets the values for both variables. **The file path must be set in the Recipe Manager to an existing directory (Default path: `c:\temp\recipe\`).** For each recipe, one file is saved.

**Visualization**: In the upper left, some information about the recipes is displayed. All recipes from the current definition are shown in the table on the right. The corresponding values for both of the variables from `PLC_PRG` are displayed in the lower table. On the left each button executes a recipe manager command, which is triggered with mouse event.

- "Write Recipe into Variables" will write the values from the recipe into the corresponding variables (`i` and `dw`) in the `PLC_PRG` program.
- "Read variables in to Recipe" will read the PLC values (Value 1, Value 2) into the current recipe.
- "Save Recipe" will save the current recipe and override old values.
- "Load Recipe" will load the current selected recipe.
- "Create Recipe" will create a new recipe in the current recipe definition and reads Value 1 and Value 2 in the recipe, whose names is set in the "New Recipe Name" field.
- "Save Recipe As" saves the recipe under a user defined name.
- "Load Recipe From" opens a dialog window, where the recipe can be selected.
- "Delete Recipe" deletes the current recipe.

## 6 Screenshots

### Example for Recipe Management

Current Recipe Definition: Recpedef	Recipes	Refresh	
Current Recipe:	Rec		
Last Error 0 == OK: 0	Recipe1		
Recipe Count: 2			

Recipe Execute Commands:

Write Recipe into Variables	Value 1: 0
Read Variables into Recipe	Value 2: 0
Save Recipe	
Load Recipe	
Create Recipe	
Save Recipe As	New Recipe Name:
Load Recipe From	
Delete Recipe	

SelectionIndex: 0

Name and Value of the Current Recipe:

Name	Value	Save

