Connected Components Workbench
Software Quick Tips

Find out more at the Connected Components Workbench™ software page
rok.auto/ccw

1. Main Window
   - Controller Organizer or Project Organizer
   - Instruction Toolbar
   - Central Workspace
   - Themes Toolbar
   - Micro800™ Simulator Toolbar
   - Instruction Toolbox
   - Add Device Selector
   - Properties Pane
   - Status Bar

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Accelerate machine development with one integrated software

BEGIN
**Organizer View**

**Project Organizer**
- Add Device Selector
- Right-click and select Memory Module Backup and Restore to enable encryption on user backup project*
- Right-click and select Change Controller to switch between controller types
- Right-click to add Structured Text, Ladder Diagram or Function Block Diagram
- Drag-and-drop Programs to different positions in order to change the execution order
- Expanded User-defined Data Types (UDT) in Project tree to simplify programming*

**Controller Organizer**
- Available in Connected Components Workbench software version 13 or later
- New organizer view for enhanced user experience
- Right-click to add new Task, routines and interrupts
- Program arrangements and edits are reflected in both views

*Available in Connected Components Workbench software version 20 or later

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**Organizer View**
- Data Grid
- Ladder Diagram Editor
- Structured Text Editor, Archive Manager and Import/Export Project
- UDF or UDFB and UDT

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Organizer View

Themes Toolbar
- IEC theme for Ladder Editor
- Logix theme for Ladder Editor

Micro800 Simulator Toolbar
- Start/Exit Simulator
- Power On
- Sync Plug-in and Expansion I/O
- Fault Status

Connection and Run Mode Change
- Connect/Disconnect
- Upload
- Clean
- Test Logic
- Accept
- Discard
- Start/Stop Run Mode Change

Firmware Update
Update device firmware from Project Organizer without ControlFLASH™ or ControlFLASH Plus™ software*
*Available in Connected Components Workbench software version 22 or later
Data Grid

Available in Connected Components Workbench software version 13 or later

Find the right tags easily with the enhanced Variable Selector using variable scope and multiple filter options*

*Available in Connected Components Workbench software version 20 or later

Create multiple tags in one click with Quick Declaration

Monitor individual status through Bit addressing for all integer-type variables
**Ladder Diagram Editor**

**Instruction Toolbar**
- Scroll tabs
- Mouse over Instruction for description
- Right-click Instruction to Add to or Remove from Favorites
- Click to show list of all Instruction Groups
- Hit **TAB** key after entering Instruction name to auto-complete Branch Start (BST) and to auto-create Instruction Block instance names
- Click to hide or unhide Instruction Toolbar or ASCII Text Input Pane

**Zoom**
- Zoom In
- Zoom to Fit All
- Zoom Out
- Zoom to Page Width
- • If toolbars are not visible, right-click on area where toolbars are to enable toolbars. From there, enable Zoom.
- • Zoom is also available by holding down **Ctrl** and using mouse wheel

**Variables**
- Single-click to select variables
- Double-click to declare new variable

**Keyboard Shortcuts**
- **Ctrl-R** enables/disables Variable Selector after drag-and-drop of Instructions

**Status Bar**
- Manual-input Enable
- Auto-input Enable
- Select Instruction and hit **F1** to invoke context sensitive help
- Select Contact or Coil and hit **SPACEBAR** to scroll through available types

**Branching**
- Drop Branch before Instruction
- Select the Instruction and press **Ctrl+7** to create the Branch
- Whole Branch is selected
- Single level of Branch selected
- Only Instruction selected

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**Organizer View**
- PG 2 - PG 3

**Data Grid**
- PG 4

**Ladder Diagram Editor**
- PG 5

**Structured Text Editor, Archive Manager and Import/Export Project**
- PG 6

**UDF or UDFB and UDT**
- PG 7
Structured Text Editor

Variable Selector
Ctrl-I brings up the Variable Selector so you can select a variable instead of typing it.

Instruction Block Selector
Ctrl-R brings up the Block Selector.

Structured Text Editor Toolbox
Drag-and-drop of language elements.

Archive Manager and Import/Export Project

Archive Manager
Create and delete archive
Requires Developer Edition

Import/Export Project
Import or Export the entire Project, including archives, as a CCWARC file type.

Variable Selector bros up the Variable Selector so you can select a variable instead of typing it.

Instruction Block Selector brings up the Block Selector.

Structured Text Editor Toolbox allows drag-and-drop of language elements.

Archive Manager and Import/Export Project facilitate the creation, deletion, and management of archives and project imports/exports, respectively.
User-defined Function (UDF) or User-defined Function Block (UDFB)

- Right-click on UDF to add Parameters
- Right-click on UDF to Rename

User-defined Data Type (UDT)

- Right-click on Data Types and Open
- Select either user-defined Arrays, Structures, or Defined Words (constants)
- For Structures, enter name of new Data Type
- Enter each field
- New Data Type will be available when a new variable is created