

Remote Control Configurator Installation

Disclaimer: FeedForward takes no responsibility for any damaged caused by this utility. This utility is being given away as freeware and is not a commercial product. Although we have been using this package and enhancing it for a couple of years, we can make no guarantee that it will be error-free. Use at your own risk.

Requirements:

Client: Windows 98, Windows 2000, and Windows NT 4.0.

Server: AW51x or AP51x.

Network: The client and server must be able to communicate through a TCP/IP network. Usually, this will require that AW51x to have a “second” Ethernet card installed, and setup for TCP/IP communications. If your AW51x is already setup for connectivity to your plant network, then this should already be taken care of.

Installation

This program requires installation at least two locations: an install for each client PC, and one install on the server AW51x.

Client Install:

1. unzip the file **rccc.zip** in to an temporary directory.
2. Run the “**setup**” program and follow the instructions to install.
3. If you wish to un-install the client software, simply use Windows standard un-install mechanism available in the Control Panel: Add/Remove Programs.

Server Install:

1. Choose an installation directory and create it. A suggested directory would be `/opt/rccs`
2. Move the **rccs.tar** file in to this directory
3. Extract the server software: `tar xvf rccs.tar`
4. Remove the installation file: `rm rccs.tar`
4. Edit the file “**port**”, if desired, to choose a TCP/IP port number for the program. It is recommended that you leave it at 1580, but if this conflicts with any other programs you may have, you can change it here.
5. If you wish to un-install the server, simply remove the program files:
`rm -r /opt/rccs`

Using the Program

Server:

1. Start the **rcc** server on the AW51x: `/opt/rccs/rccs`
2. If you wish to stop the server program at a later time, run `ps -ef | grep rccs.bin;` and `kill` the process.

Client:

3. Start the client software: You will find the program in the “Start” > “Programs” > “Remote Control Config” menu pick.
4. You will need to edit the network configuration settings, for the first usage.

- a. In the main screen of the client, choose “IccSession” > “Options” > “RCC Server” menu pick.
 - b. Enter the network IP address (or Hostname) and the port number used for the **rcc** server. The standard port number should be 1580, unless it was changed in the **rccs** server setup.
 - c. Note that you can enter up to 10 **rcc** hostnames in this setup screen.
 - d. Make sure the correct radio button is chosen for the **rcc** server you wish to connect to.
 - e. If you want the client to automatically try to connect to the server each time it is started, then choose the “Auto-connect” checkbox. Otherwise, you must manually choose “New” menu after each client startup.
5. Connect to the server by choosing the “ICCSession” > “New” menu pick.
 6. If the connection to the server is successful, you will get a drop-down pick of both CP names and Compound names. To enter a CP, choose either the CP name or a Compound name.
 7. Other than cross-referencing, all other RCC functions should resemble the standard ICC, with some enhancements.

Cross-Referencing

1. The cross-reference utility provides block-level cross-referencing. If you wish to know what other blocks, displays, or historians are connected to the currently selected block, either press the Spacebar, or choose the “Xref” button. This provides a cross-reference much like PLC vendors provide.
2. Unfortunately, the cross-reference is based on a cross-reference *generation*, and not done “on-the-fly.” This means that changes since the last cross-reference generation will not appear until the next cross-reference is generated.
3. The cross-reference database is stored in the **rcc** server, and not the client. Thus, changes from a cross-reference generated by one **rcc** user will show up in all other **rcc** users.
4. To generate cross-references:
 - a. Connect to an **rcc** server, but do not enter into a CP (because the cross-reference generation utility uses `icccprt`, and this utility requires no active ICC sessions).
 - b. Choose the “IccSession” > “Options” > “Cross Reference” menu item. If this item is not selectable, it is because you are not connected to an **rcc** server, or you are currently active in a CP.
 - c. Choose the “scope” of the cross-reference. This means that you must specify the CP/vols; display directories, and historians to create a cross-reference:
 - i. CP/vols button: enter the CP and Volume names, one per line. This will generate cross-referencing for parameter connections in these CP/vols. If you do not wish to cross-reference CPs or Volumes, leave this blank.
 - ii. Display Button: enter the root directories of displays you wish to cross-reference, one per line. This will cross-reference **all 50-series DM displays (NOT FoxView!)** in these directories, and any of their subdirectories. Cross-referencing of displays will only work if the displays directories are present on the **rcc** server (if not, copy them from the

- remote WP that they reside on). If you do not wish to cross-reference displays, leave this blank.
- iii. Historian button: enter the names of historians to cross-reference, one per line. If you do not wish to cross-reference historians, leave this blank
 - d. To generate the cross-reference, choose the “Create Cross-Reference” button. This can take a while to generate! Also, there can not be any open ICC sessions in any of the CPs or Volumes that the cross-reference will use (specified in the CP/vols). The generation will skip these, and not give an accurate cross-reference database.
 - e. You can cancel the generation after it has started with the Cancel button.
5. If you wish to see the entire cross-reference database, you may view the following files on the **rcc** server:
- a. `/opt/rccs/xref/xref_all`: integrated cross-reference with CPs, disps, and historian all together.
 - b. `/opt/rccs/xref/xref_cont`: cross-reference of control connections only
 - c. `/opt/rccs/xref/xref_disp`: cross-reference of display connections only
 - d. `/opt/rccs/xref/xref_hist`: cross-reference of historians
 - e. `/opt/rccs/xref/xref_fbm`: provides an FBM-point loading database

Cross-Referencing Known Deficiencies:

1. Does not cross-reference control blocks referenced in Sequence Code
2. Currently, only Display Manager displays are supported. Cross-reference on FoxView displays will be a future enhancement.