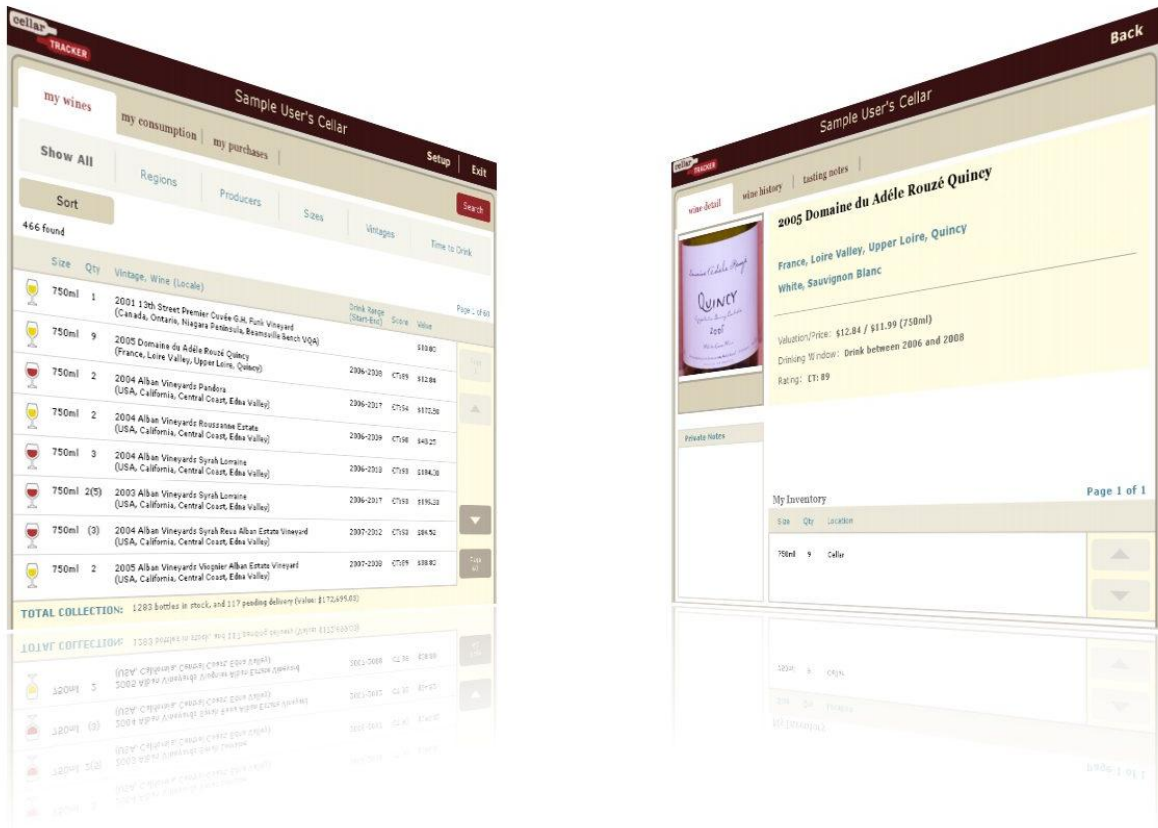


CellarTracker!



Crestron Module
for CellarTracker! Account browsing

CellarTracker! Crestron Module (version 1.0)

System Requirements

Hardware Requirements

The CellarTracker Crestron module requires the following hardware/software/firmware components:

- Ethernet Router with Internet access
- Crestron 2-series control processor with Ethernet (except AES/AADS/AMS)
- Crestron touchpanel with minimum resolution of 640x480
- Crestron touchpanel with Ethernet support (for Dynamic Graphics support)
- SIMPL Windows® 2.10.32 or later
- SIMPL+ 3.03.08 or later
- Crestron Database 20.00.015.00 or later
- Device Database 20.02.009.00 or later
- Processor firmware 4.000.0226 or later (for processor hosting CellarTracker module)

Crestron Software Components

The CellarTracker Crestron module includes the following software components:

- CellarTracker-v1.zip (contains the Crestron module set and this help file)
- CellarTracker-Dedicated.zip (contains a pre-configured SIMPL Windows program and RSD)
- CellarTracker-1024.vtt (VisionTools template for 1024x768 resolution touchpanels)
- CellarTracker-800.vtt (VisionTools template for 800x600 resolution touchpanels)
- CellarTracker-640.vtt (VisionTools template for 640x480 resolution touchpanels)
- CellarTracker-Demo.zip (contains demo smw, spz and Xpanel-exe elements for demo purposes)

CellarTracker! Activation

CellarTracker! is a subscription-based online service which requires account registration. The use of this module in a Crestron solution requires activation with CellarTracker! To activate the module, you must contact CellarTracker! with a valid account id and request they turn on Crestron services for the account. Appropriate activation charges will be applied at this time. Once activated, the module is authorized to transmit data with the registered CellarTracker! account.

Hardware Setup

Processor Data Storage Setup

The CellarTracker Module uses some files to store data needed for it's operation. There are 2 places on the processor that can be used to store these files; Compact Flash card and NVRAM.

If you have a CF card installed on your processor

You are done! There is no special setup needed to support CompactFlash.
Simply select the option "CompactFlash" from the FileStorage parameter on the module.

If you DO NOT have a CF card installed in your processor

If you are not using a PAC2/PRO2/AV2/PAC2M/DIN-AP2 processor, or do not have a CF card installed in your processor, you will need to setup an NVRAM disk if you have not already done so:

- 1) Connect to the processor using Toolbox's Text Console tool
- 2) Type NVRAMDISK<enter>
- 3) If the processor comes back with **NVRAMDISK: 128K** you are done! Otherwise...
- 4) Type NVRAMDISK 128k<enter>
- 5) Type Y<enter> when prompted
- 6) Type NVRAMDISK<enter> to confirm the command took. The processor should reply with **NVRAMDISK: 128K**. If not, go back to step 4 and try again.

** You may substitute 64K for 128K in the above examples if this is more appropriate to your installation

Processor/Touchpanel Ethernet Setup

Use of the CellarTracker module requires proper setup of the processor's Ethernet settings in order to access the internet properly. If you have already setup the processor for proper Ethernet and DNS operation, then you are ready, otherwise the rest of this section can help you setup this portion of the processor.

These instructions will assume that you have 3 important pieces of information already: a static IP address to use for the processor, the subnet mask of the network and the IP address of the default router for internet access on the network. If you do not have this information, please contact the network administrator or homeowner to acquire this information.

If the network is a private network in a residence, and no IT administrator is responsible for it, a static IP address can be calculated based on 2 pieces of information: the IP addressing scheme and the DHCP range of the network. Both of these can be obtained from the default router's LAN configuration screens. The addressing scheme will be the first 3 numbers you enter to navigate to the setup of the router (e.g. if you navigate to <http://192.168.1.1> to access the router, then the addressing scheme is 192.168.1.x). From that setup you should also be able to locate the DHCP range. The subnet mask will also be shown here, so please write this down and don't forget it.

To choose an address for your processor, simply use the first 3 numbers from the IP addressing scheme, then choose an unused number for the last digit that is between 1 and 254. Make certain to not use any numbers within the DHCP range, nor the same number as the router. Once selected, you can run a test to make sure the chosen address is not in use. Let's try an example where you have a router whose address is 192.168.1.1 and the DHCP range is 100 to 150, and you choose 192.168.1.222 as an address:

- 1) From your PC go to Start>Run and type *cmd<enter>* to bring up a DOS window:
- 2) Inside the DOS window, type *ping 192.168.1.222<enter>*:
- 3) The replies should come back slowly and with a Request Timed Out message repeating. This means that the .122 address is available for use. If you receive Reply from 192.168.1.122 messages, then the .122 address is currently in use and you must choose a different IP address.

Now we can setup the processor with the appropriate Ethernet configuration (using IP Address 192.168.1.222, Subnet Mask 255.255.255.0 and Default Router of 192.168.1.1):

- 1) Connect to the processor using Toolbox's Text Console tool
- 2) Type *DHCP off<enter>*
- 3) Type *IPA 0 192.168.1.222<enter>* or *IPA 192.168.1.222<enter>* depending on processor type
- 4) Type *IPM 0 255.255.255.0<enter>* or *IPM 255.255.255.0<enter>* depending on processor type
- 5) Type *DEFR 192.168.1.1<enter>*
- 6) Type *ADDD 192.168.1.1<enter>* (the address of the default router)
- 7) Now everything is setup, just type *EST<enter>* and confirm that the HDHCP, IP Address, Subnet Mask, Default Router and DNS 1 took. If not, go back and enter a command again.
- 8) Reboot the processor

**This same scenario/process applies to Ethernet enabled touchpanels as well if the bottle label support is desired. Refer to the touchpanel's reference guide for exact Ethernet console command formatting.

Software Setup

SIMPL Windows® Conventional Installation

The CellarTracker Crestron module is very easy to integrate into any SIMPL Windows program. However, please keep in mind the memory and resource load this module may put on your system and design hardware and code accordingly. This module uses default joins of:

Digital = 1001 - 1198
Analog = 101 - 129
Serial = 100 - 218

- 1) Add the Module
 - a. Unzip the contents of the CellarTracker-v1.zip archive into either your project directory or your SIMPL Windows UserModule and UserPlus directories (this pdf and the .umc file go in UserModule, the .usp and .ush files go in UserPlus)
 - b. Open your project (or if the project is already open, go to Project>Re-Synch Program).
 - c. From the Symbol Library view, drag in the CellarTracker-v1 module.
 - d. In the program view, make sure you have a touchpanel or Xpanel visible in the Ethernet or Cresnet slot trees, then right-click-drag the added CellarTracker module onto the panel. Select the option “**Import User Interface Connection logic**” from the context menu. If desired, give the module’s signals a prefix (such as CellTracker_). Do not offset the joins! This will void any support available for this product.
 - e. Be sure to set the PermanentStringSize on panels with such a parameter to *254d*.
 - f. You may repeat steps D & E for additional panels, just be sure to specify NO signal prefix this time.
- 2) Set the parameters
 - a. There is no need to tie the serial outputs of the module to an MSP (MakeStringPermanent) symbol, as they are already connected to one inside the module.
 - b. If desired, define a default CellarTracker.com username and password in the appropriate parameters.
 - c. Define the storage location for module data (as defined in Hardware section above) in the FileStorage parameter.
 - d. Type in the client’s name as you would like it to appear on the touchpanel on the CellarTracker main page in the Client_Name parameter.
- 3) Finished!
 - a. The module is now ready to use. Compile and load.

SIMPL Windows® Dedicated Processor Deployment

In the case where it is desired to deploy this module on a separate processor and then export/import the control and data signals to another processor in your system, we have provided a pre-assembled program for a QM-RMC to support this task. This method is desirable for several reasons, including speed and memory management.

- 1) Preparation
 - a. Unzip the contents of the CellarTracker-Dedicated.zip archive into your project directory.
 - b. Open your project (or if the project is already open, go to Project>Re-Synch Program).
 - c. Open the CellarTracker-Dedicated.smw program in a new instance of SIMPL Windows.
- 2) Create the Link between the 2 programs
 - a. In your project, import the CellarTracker-Dedicated.rsd file. Set the IP address of the imported EISC symbol at IPID-FE to the IP Address you will use for the dedicated processor.
 - b. Copy the CellarTracker-v1 module from the CellarTracker-Dedicated program and paste into your program (anywhere, as this will be deleted later).
 - c. In the program view or your program, make sure you have a touchpanel or Xpanel visible in the Ethernet or Cresnet slot trees, then right-click-drag the added CellarTracker module onto the panel. Select the option “**Import User Interface Connection logic**” from the context menu. Do not give the module’s signals a prefix; they have a default prefix of *CT* to match the RSD. Do not offset the joins! This will void any support available for this product.
 - d. Be sure to set the PermanentStringSize on panels with such a parameter to *254d*.
 - e. You may repeat steps C & D for additional panels, remembering to specify NO signal prefix.
- 3) Finalize the Link in your program
 - a. Add an MSP symbol to your program, set it’s PermanentStringSize to *254d*, and drag all of the serial signals from the EISC at IPID-FE to the MSP.
 - b. Delete the CellarTracker module from your program that we added in step 2-B.
- 4) Finalize the Dedicated program
 - a. In the CellarTracker-Dedicated program, set the IP address on the EISC symbol at IPID-FE to the IP address of the processor hosting your program.
 - b. If desired, define a default CellarTracker.com username and password in the appropriate parameters.
 - c. Type in the client’s name as you would like it to appear on the touchpanel on the CellarTracker main page in the Client Name parameter.
 - d. Convert the QM-RMC to whatever processor type you will be using to host this program and save.
 - e. Define the storage location for module data (as defined in Hardware section above) in the FileStorage parameter. If using a QM-RMC, leave it at NVRAM.
- 5) Finished!
 - a. Save, compile and upload both programs.

VisionTools Pro-e®

The CellarTracker module VisionTools support files are ready to be added into any project easily. Modification of any of the CellarTracker elements' join numbers will void any support available for this product.

- 1) Open the CellarTracker VisionTools template that matches your existing touchpanel's resolution (i.e. 800 for 800x600 panels such as TPS-12, TPMC-8x, etc.)
- 2) Open your existing project. Right click on either project in the Project View and make sure that Show Folders is selected.
- 3) Now, just drag the CellarTracker folder from the template to your project.
- 4) Create a page flip from your existing panel layout to the CellarTracker! Page.
- 5) If bottle label support is not needed or possible and you so desire, delete the large button with the Crestron logo at the top right of subpages CellarTracker – Detail and CellarTracker – Detail-List and the label below that button.
- 6) Finished! Save, compile and upload your touchpanel project.

Repeat this same procedure for all other panels in your project.

Custom Integration Options

For those not faint of heart, the integration of the CellarTracker! module can be customized for systems that require it. This procedure will assume you have an extensive knowledge of Crestron software programming. However, any deviation from the predefined join number scheme will void any support available for this product.

In SIMPL Windows, for those requiring new join number ranges (due to existing join number usage in project, etc.), you may “offset” the joins used in the “import” process. Please keep track of the join offsets used for digital, analog and serial joins at this step, as you will need to use the same offsets during the VT import process.

If using the Dedicated program for CellarTracker function export, and needing to export to multiple processors, simply copy the exiting EISC symbol to additional symbols and create RSD files for each to be exported to other processors. Follow the procedure for integrating into your program as outlined above for each processor.

In VisionTools, instead of dragging the CellarTracker folder to your project, first create a CellarTracker folder in your project. Then **copy** the CellarTracker folder from the template project. Lastly, “paste special” into the CellarTracker folder of your project and input the offset joins used above in SIMPL Windows.

Using the Demo Program

The included Demo program can be used for demonstration purposes in your showroom. This demo is ready to deploy by just loading into a properly set up QM-RMC. The included Xpanel-exe's can be used to demonstrate the power of CellarTracker!. When using the included Demo exe's, be sure to type in the IP address of your control processor under the Options>Settings menu item of the Xpanel-exe. Or you may save any of the included VTT templates as a touchpanel and run a dedicated demo from a touchpanel. Touchpanels connect to the demo program via IP-IDs 03 and 04 (two panels are supported in the demo). Alternatively, you may integrate the CellarTracker! module and graphics into your existing showroom program by following the instructions above. The login information for the demo user can be found on the parameters of the module included in the Demo program.