

Step 1a - contents

Unzip the zip file contents into a directory on workstation

Step 1b – shell template

Download the latest [Crestron Template Project](https://developer.crestron.com/crestron-template-project) from developer.crestron.com

- navigate to Crestron HTML5 User Interface section



CRESTRON HTML5 USER INTERFACE

Crestron® HTML5 User Interface bridges standard web development methodologies with Crestron solutions for creating dynamic, scalable user interfaces.

VIEW

-
- Navigate to downloads

Advanced Programming
Reference Documentation
Glossary of Terms
Known Limitations
Downloads
Resources

NOTE: For simplicity throughout this documentation, the term "CH5" is used as an abbreviation, otherwise noted.

Click the tiles below to access common developer resources.

What's New?

Downloads

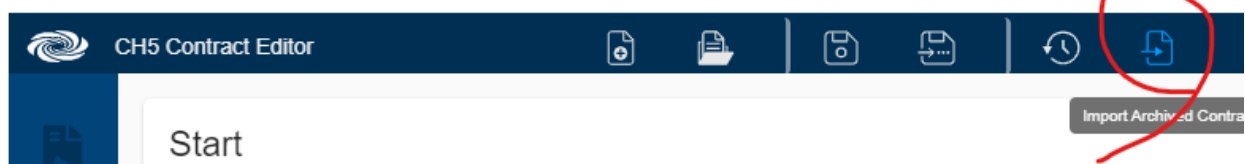
-
- Click on the "Crestron Template Project" link

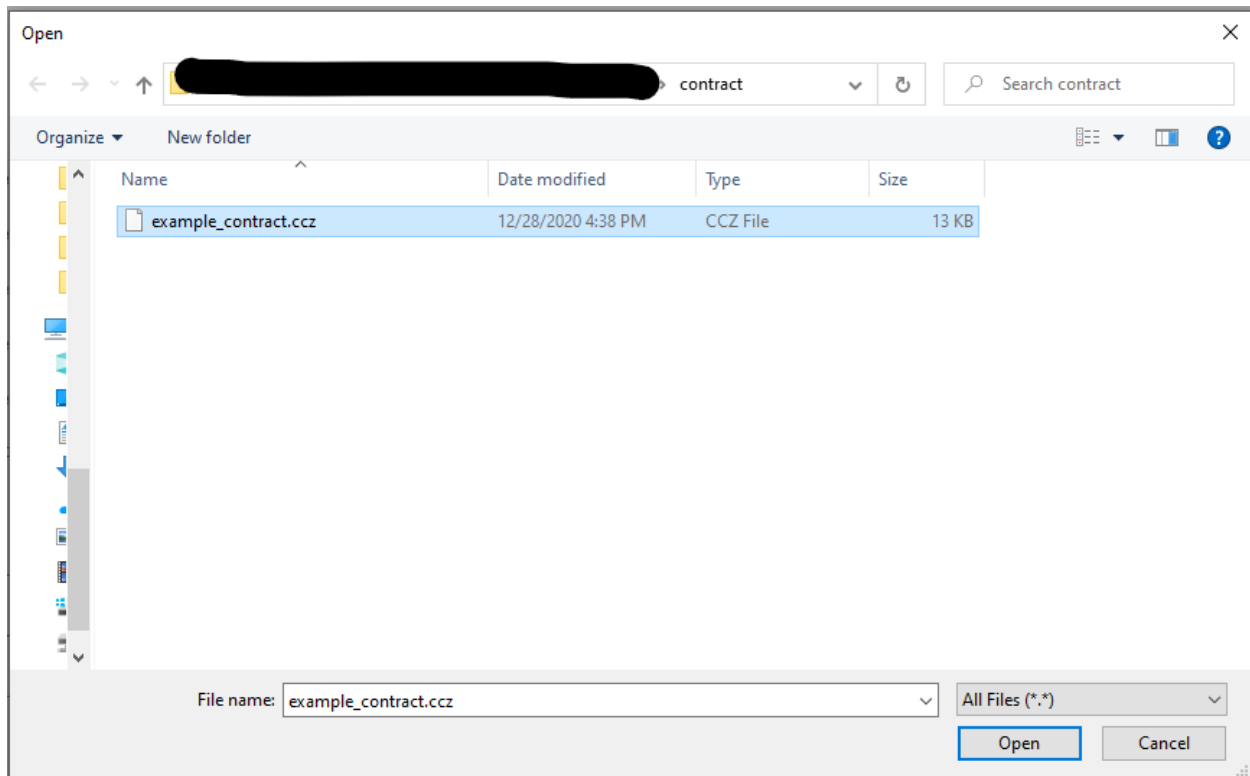
Place the downloaded ShellProject.zip file to the project directory created in step 1a

Step 2 – Import and “build” the contract

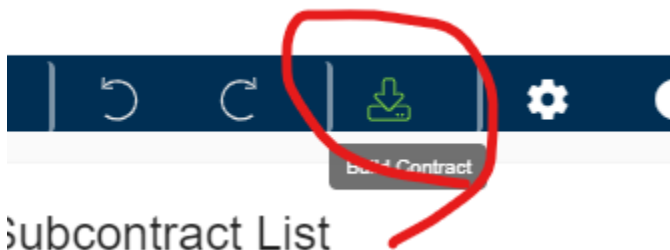
- Download, install, and run the Contract Editor Application
<https://www.crestron.com/support/search-results?c=4&m=10&q=contract>
- Import the .ccz file from the /contract directory

Ch5 Contract Editor



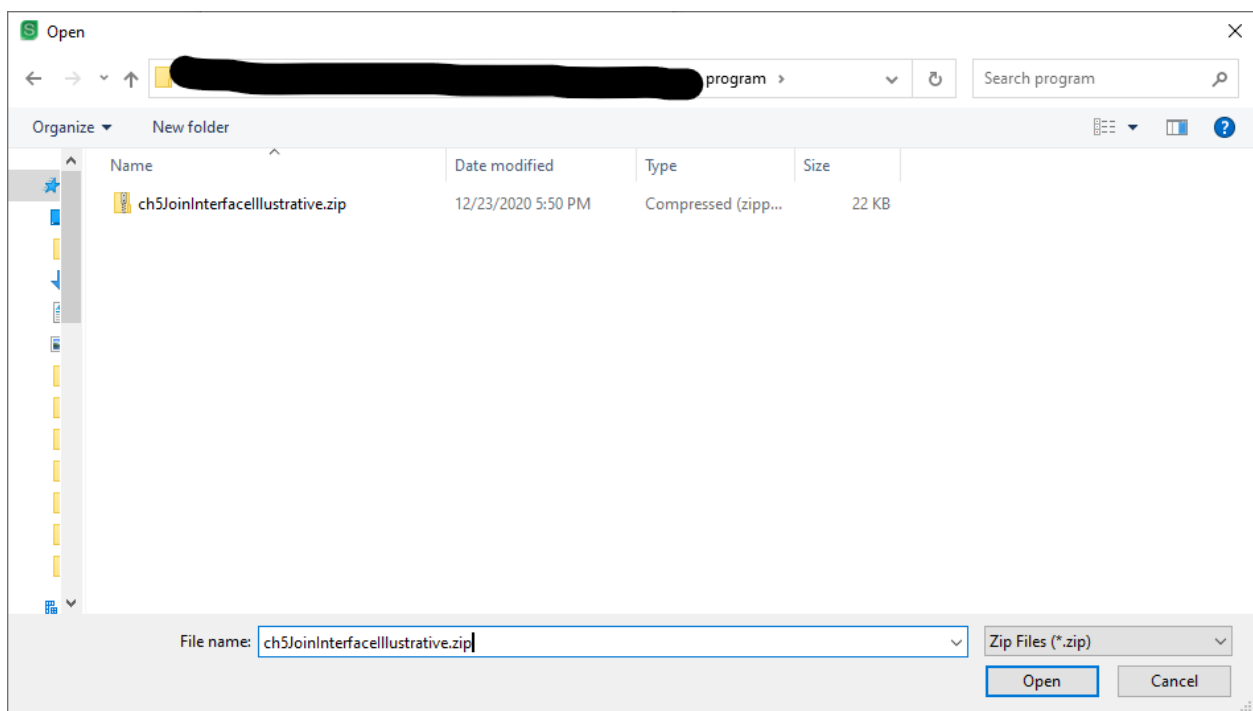
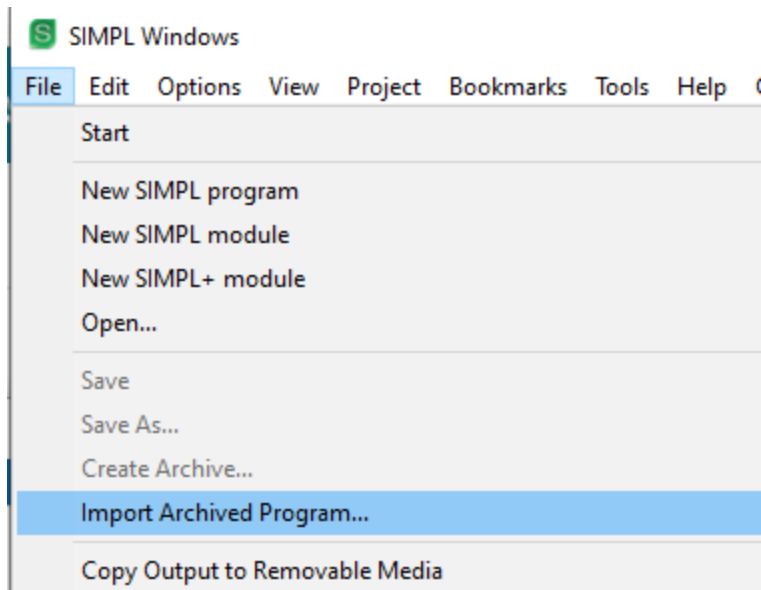


c) Build the contract

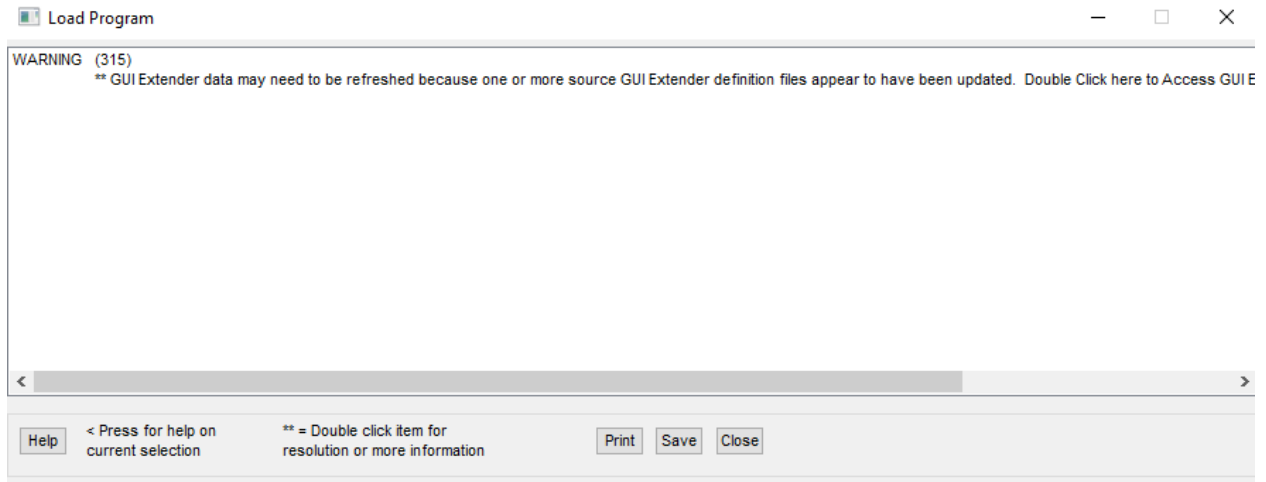


Step 3 – import the SIMPL program, manage the extenders, build and deploy the program to a control system

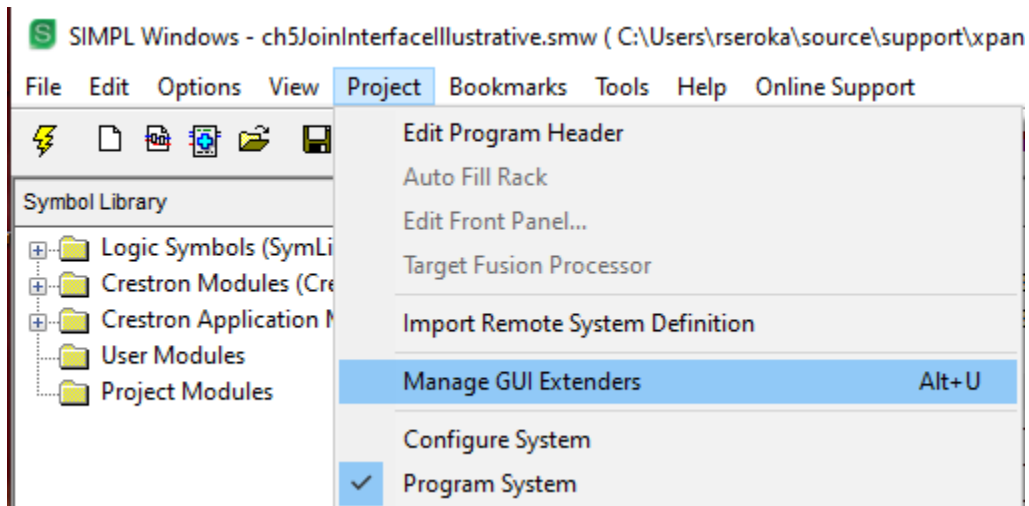
- a) run SIMPL Windows
- b) Import the SIMPL program, ch5JoinInterfaceIllustrative.zip, found in the /program directory

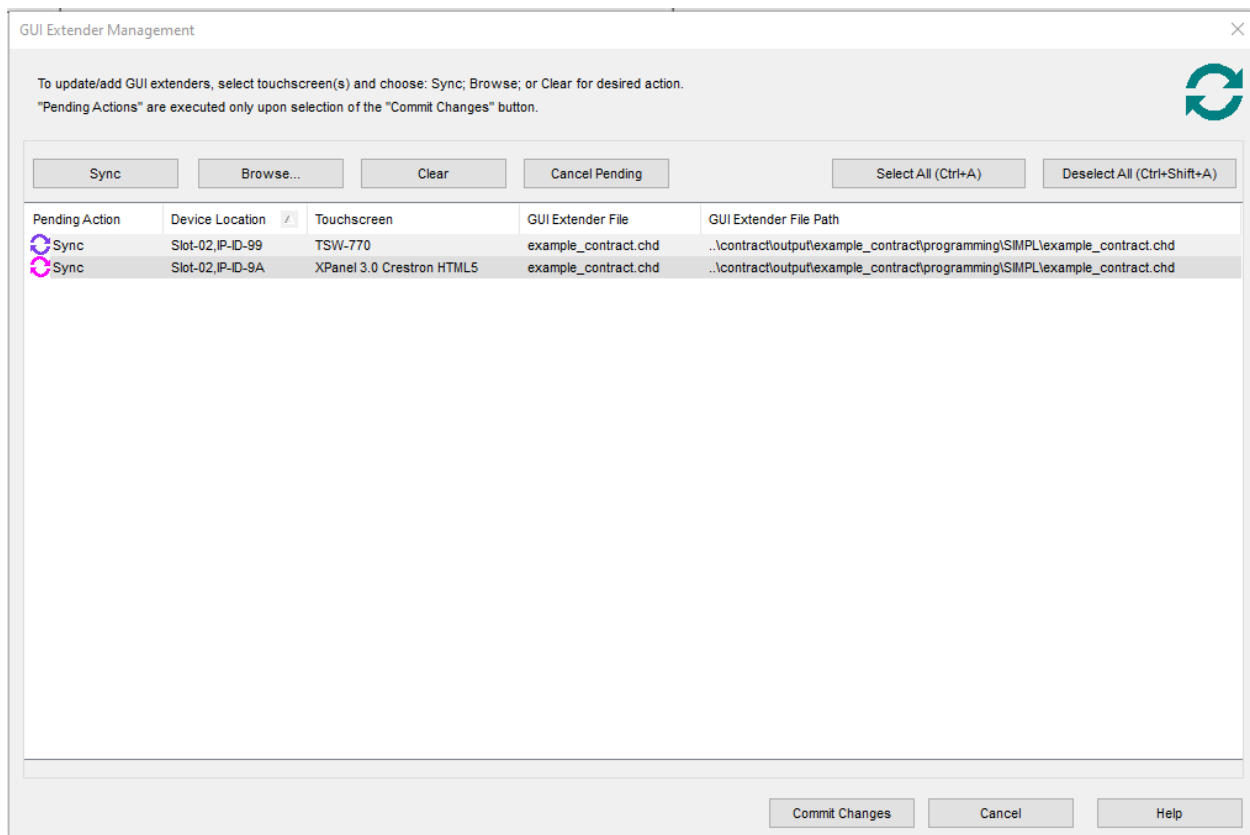


This result is expected

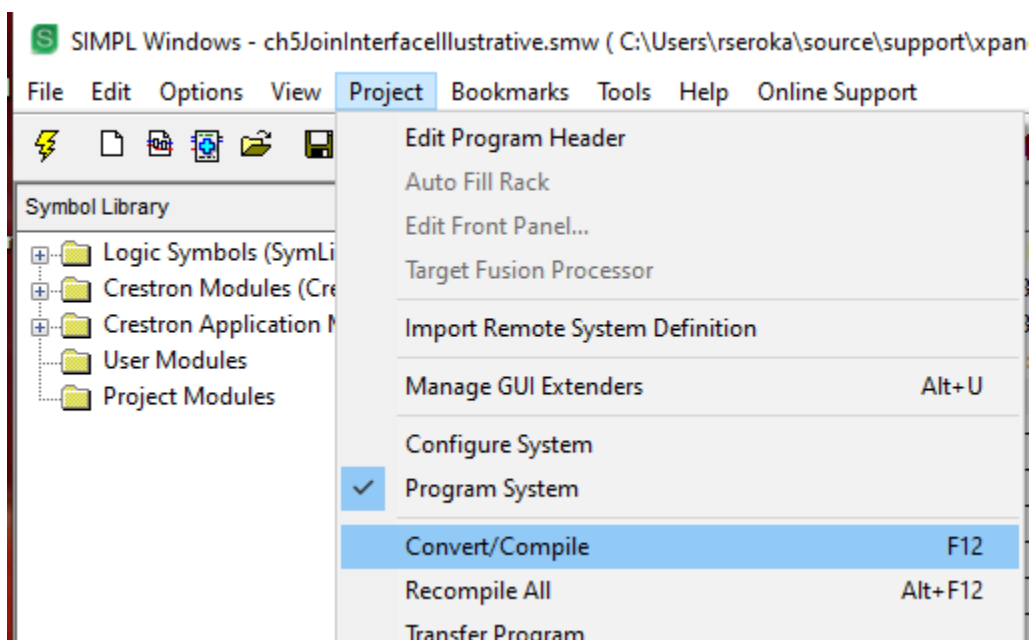


c) Browse to correct .chd file and “sync” the newly built contract output.





- d) Send result of compilation to a 3 or 4 series control system that has been updated with appropriate level of firmware.



SIMPL Program - auto RS-RMC3-1

Program01 (CH5JoinInterface)

Send To / Retrieve From

☒ Internal Flash ☐ Removable Media

Current Program

Program Information:

ProgramIDTag: CH5JoinInterface
TargetRack: CP3
SystemName: CH5JoinInterfaceExample
SourceFile: C:\Users\rseroka\source\support\xpanel-integration\integrationExample
\wip\program\ch5JoinInterfacellustrative
ProgramFile: ch5JoinInterfacellustrative.smw

Stop Restart Erase... Retrieve...

Send Program

Browse...

Program Information:

ProgramIDTag: CH5JoinInterface
TargetRack: CP3
CompileDateTime: 12/28/2020 5:08 PM
BinFileName: ch5JoinInterfacellustrative.bin
RouteFileName: ch5JoinInterfacellustrative.rte
SignalName:

☒ Bypass auto start/stop of dependent programs
☒ Send SIG File
☐ Overwrite existing IP Table on device without asking

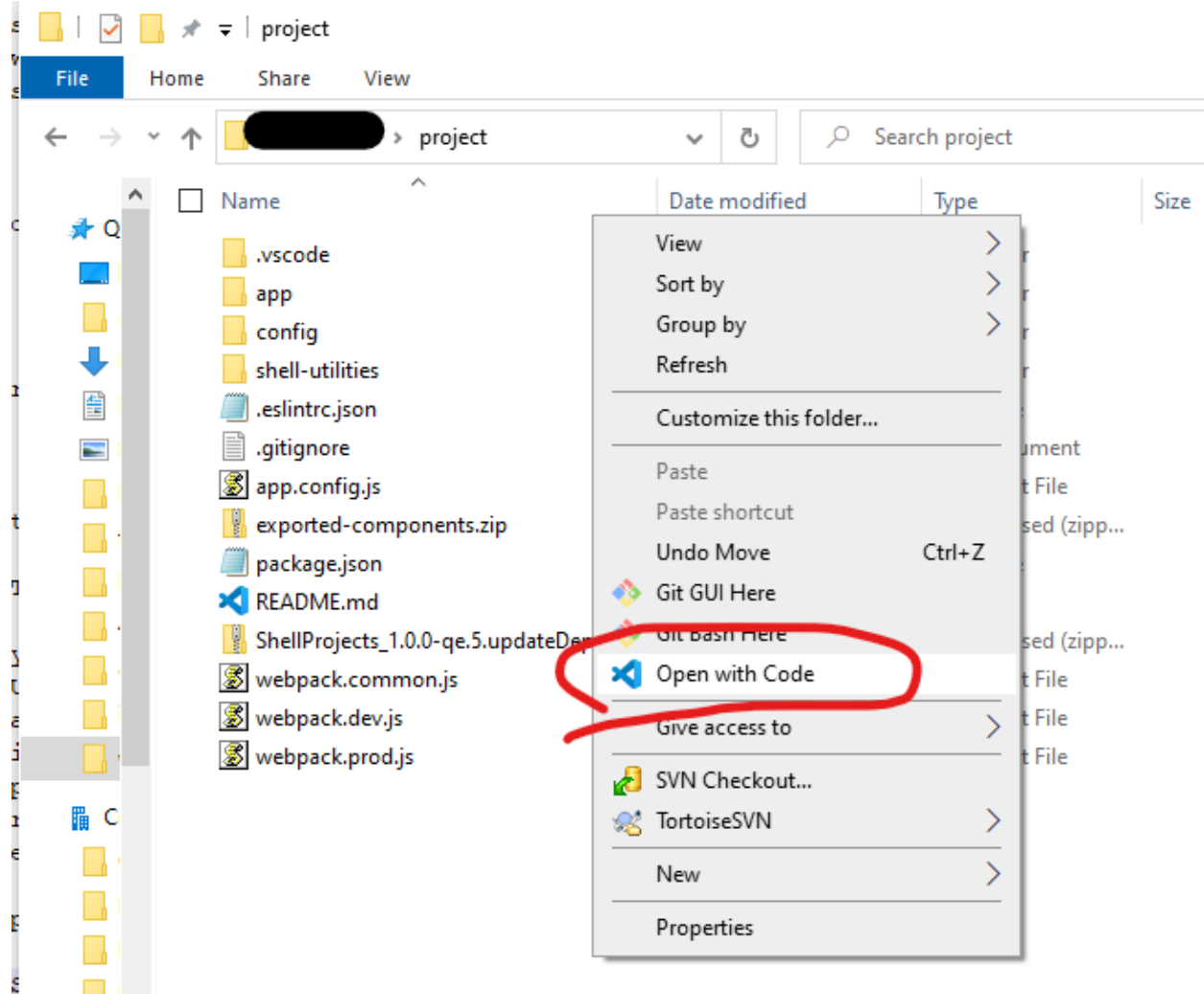
Send

Close

Step 4 – update project with contract, import example components, build and deploy project

Unzip the contents of ShellProjects.zip file to the project directory

Open VSCode in the directory containing the contents



Customize the project

Optional – Customize the project name

In package.json file,

- update the "name": parameter (example "name": "shell-template" => "name": "example-project")
- update the "scripts"/"build:archive" : "....-p shell-template" to "build:archive" : ".... -p example-project"
- update the "scripts"/"build:deploy" : ".... dist/prod/shell-template.ch5z" to "... dist/prod/example-project.ch5z"

or simply search and replace shell-template to example-project in the package.json file

Update the target host and type of device you will deploy the project to
Find the “scripts”/”build:deploy” entry.

Change the -H hostname to be -H ipaddress or hostname of control system you wish to deploy your web xpanel project to or touchscreen you wish to deploy your touchscreen project to

If deploy to a control system for a web xpanel deployment, change the -t parameter from touchscreen to web

Add a -p parameter to prompt for credentials,

Example:

```
"build:deploy": "ch5-cli deploy -p -H 192.168.1.197 -t web dist/prod/example-project.ch5z",
```

see ch5-cli deploy help on CH5 developer.crestron.com for more information on how to use the ch5-cli for deploying projects

Customize the location of the contract file interface

Update the archive to include correct file

Find the “scripts”/”build:archive” entry.

Update the -c parameter to point location of the built contract interface file.

```
../contract/output/example_contract/interface/mapping/example_contract.cse2j
```

Example (all on one line)

```
"build:archive": "yarn build:prod && ch5-cli archive -p example-project  
-d dist/prod/Shell -o dist/prod  
-c ../contract/output/example_contract/interface/mapping/example_contract.cse2j",
```

Optional – update the local copy of the contract if you are using the “yarn start”/”npm run start” interactive development

There are built in scripts to Interactive development is available through a local webserver serving up the project called “yarn start” or “npm run start”. If you use this feature, you’ll need to provide the contract by copying the

```
../contract/output/example_contract/interface/mapping/example_contract.cse2j
```

 file to the
./config/contract.cse2j file contents of the project.

Install the dependencies

From integrated terminal in VSCode or external terminal in the same directory as the package.json file, enter the command “yarn install”

Install example page components

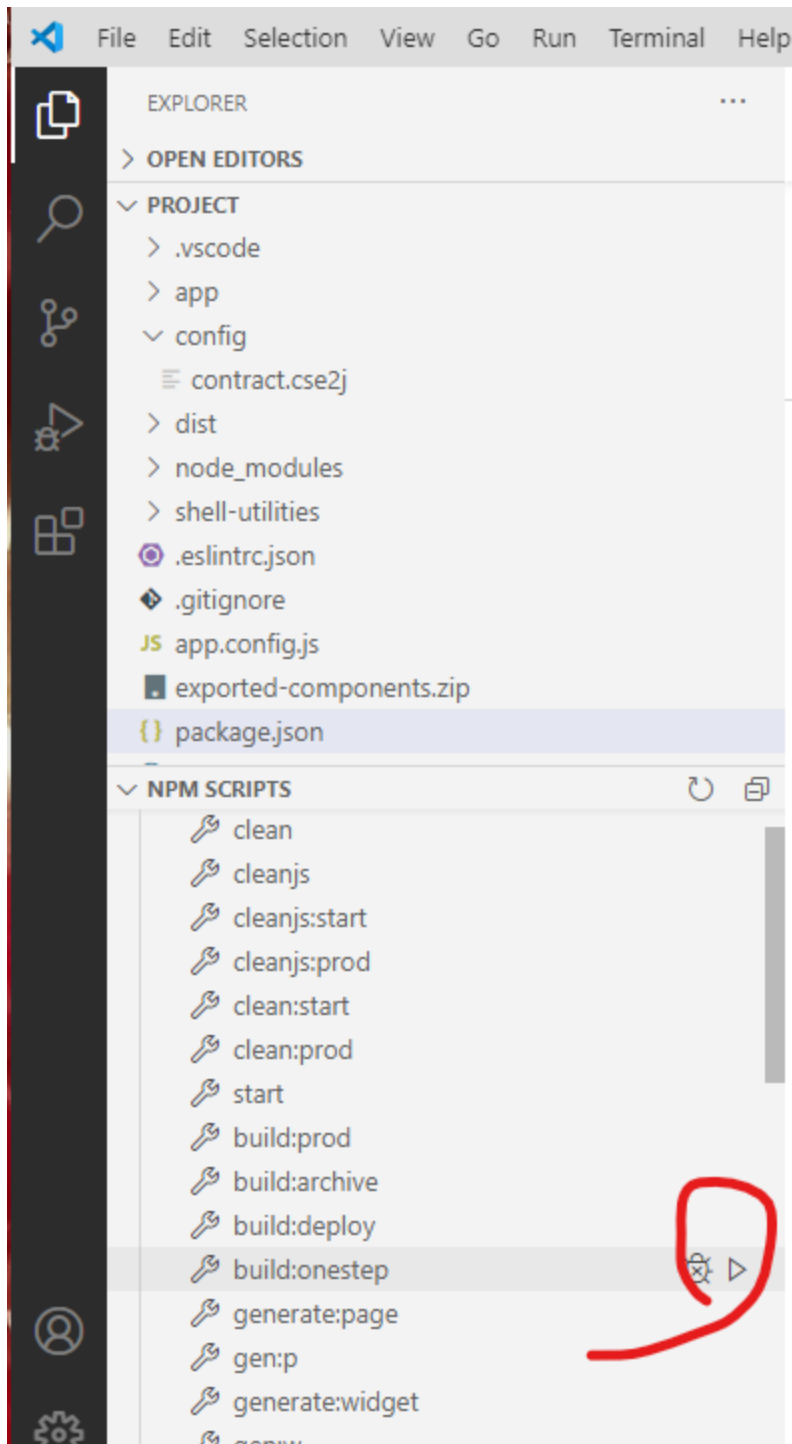
Example pages are provided in the file called exported-components. To install run the following command line command from the integrated terminal in VSCode or external terminal in the same directory as the package.json file.

```
"yarn import:components -z exported-components.zip --all"
```

When prompted "Do you wish to overwrite the files?" select Yes

Build and Deploy

If you already updated the build:archive and build:deploy sections of the package.json file as directed in the "customize the project" section, you can now build and deploy the project in one script that is available by typing "yarn build:onestep" on the console or pressing the button in VSCode shown below.



Run the project

Touchscreen

If deployed onto a touchscreen, change the IPID of the touchscreen to 99

Example

TSW-1060>ipt

IP Table:

CIP_ID	Type	Status	DevID	Port	IP Address/SiteName	RoomId
99	Gway	ONLINE		41794	192.168.1.179	

Web XPanel

If deployed onto a control system as a web xpanel project, use the URL

<https://controlsystem/example-project/index.html?ipId=9A>

where

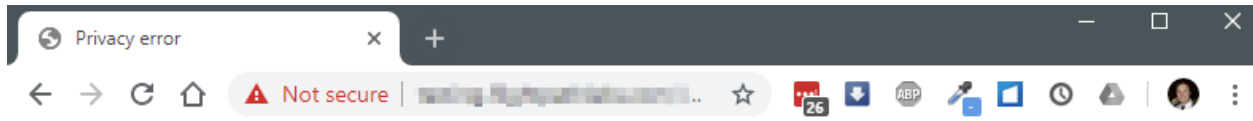
controlsystem is the hostname or ipaddress of the control system, and
example-project is the name of project deployed

note the ?ipId=9A is the ipId setup in the control system program for this touchscreen.

See documentation on how to configure within the project if desired.

Also note that control systems with self signed certificates will prompt that “connection is not private” or similar warnings. This is expected.

See CH5 documentation “Run the HTML5 Web XPanel” for more information.



Your connection is not private

Attackers might be trying to steal your information from [\[blurred URL\]](#) (for example, passwords, messages, or credit cards). [Learn more](#)

NET::ERR_CERT_AUTHORITY_INVALID

☐ Help improve Safe Browsing by sending some [system information and page content](#) to Google.
[Privacy policy](#)

Advanced

Back to safety