

Migration to New VCC Structure

01/10/2024 2:34 pm EST

Overview of Change

We are changing the core structure of VCC to allow us to accomplish the following things:

- Develop and Maintain individual VCC video drivers independently
- Improve VCC core performance and stability
- Remove dependencies/troubleshooting on multiple products for VCC to function (Bold Launcher and LUS are no longer required for VCC)
- Follow best practices for security sandboxing in browser-based applications. This moves us to be compatible with all browsers and future implementations could potentially be OS independent.
- Reduce, and in the future remove dependence on Manitou structure so that VCC can be completely version-independent and a product in its own right. This means that other Bold companies can integrate VCC with their products, AND that it can be upgraded only as needed and not with every Manitou change. (For use with Manitou, there will be a specific Manitou version or later required. Older versions of Manitou will not work with this VCC)
- Allow smaller targeted installers for VCC/Drivers that will only be released if changed. This will also set the stage for update/install on demand in the future.
- Allow only the purchased video drivers to be installed. In the future a license check will be implemented in Manitou to limit this as well.

Backup Existing Configuration

The simplest way is to just make a complete copy of the current VCC installation. This will also help in the next sections below.

VIEW				
is PC > Local Disk (C:) > Program Files (x86) > Bold Technologies > Manitou				
Name	Date modified	Type	Size	
AutoDispatch	4/17/2020 12:48 PM	File folder		
BinFiles	5/14/2018 5:12 PM	File folder		
BObject_Files	7/25/2018 4:32 PM	File folder		
Bold-Avigilon5	9/14/2018 12:24 PM	File folder		
BrowserHost	8/9/2018 10:17 AM	File folder		
Distributer	6/26/2020 9:22 AM	File folder		
gdal	5/14/2018 5:13 PM	File folder		
Help	6/16/2018 2:23 PM	File folder		
IGSignalCache	7/16/2019 9:06 PM	File folder		
Install	5/14/2018 7:26 PM	File folder		
IntegrationGatewayDrivers	6/16/2020 3:42 PM	File folder		
Launcher	6/26/2020 10:07 AM	File folder		
License	5/14/2018 7:24 PM	File folder		
LocalCertificateUtility	6/16/2020 4:07 PM	File folder		
LocalUtilityService	6/26/2020 10:07 AM	File folder		
Old	6/26/2020 10:07 AM	File folder		
SqlServerTypes	5/14/2018 5:13 PM	File folder		
VCC	6/16/2020 4:06 PM	File folder		
VCC - Copy	8/10/2020 2:23 PM	File folder		
WavFiles	5/14/2018 5:12 PM	File folder		
3XLOGIC.FEP	6/16/2020 3:41 PM	FEP File		
201805140605_MigrateDB.txt	5/14/2018 7:05 PM	Text Document		
201806160227_MigrateDB.txt	6/16/2018 2:27 PM	Text Document		

Determine Needed Video Types

Please run this SQL query on the customer dB prior to any upgrade. This will determine what drivers will need to be installed. The ones that have VCC in the Description are the native VCC drivers and will have their own installer going forward.

```
SELECT DISTINCT d.AVTYPE, v.DESCR
FROM DEVICES d
LEFT JOIN VIDEO v ON v.VIDEOTYPE = d.AVTYPE
```

Although BJS video types are supported by the new Base VCC installer, some BJS video types required additional supporting installs for things like ActiveX or third party SDKs. The runtimes the files for these were placed in the old VCC folder and will need to be reinstalled or copied over. This is where the complete backup copy is useful.

SQLQuery1.sql - DE...TOUSmall (sa (139))*

```
SELECT DISTINCT d.AVTYPE, v.DESCR
FROM DEVICES d
LEFT JOIN VIDEO v ON v.VIDEOTYPE = d.AVTYPE
```

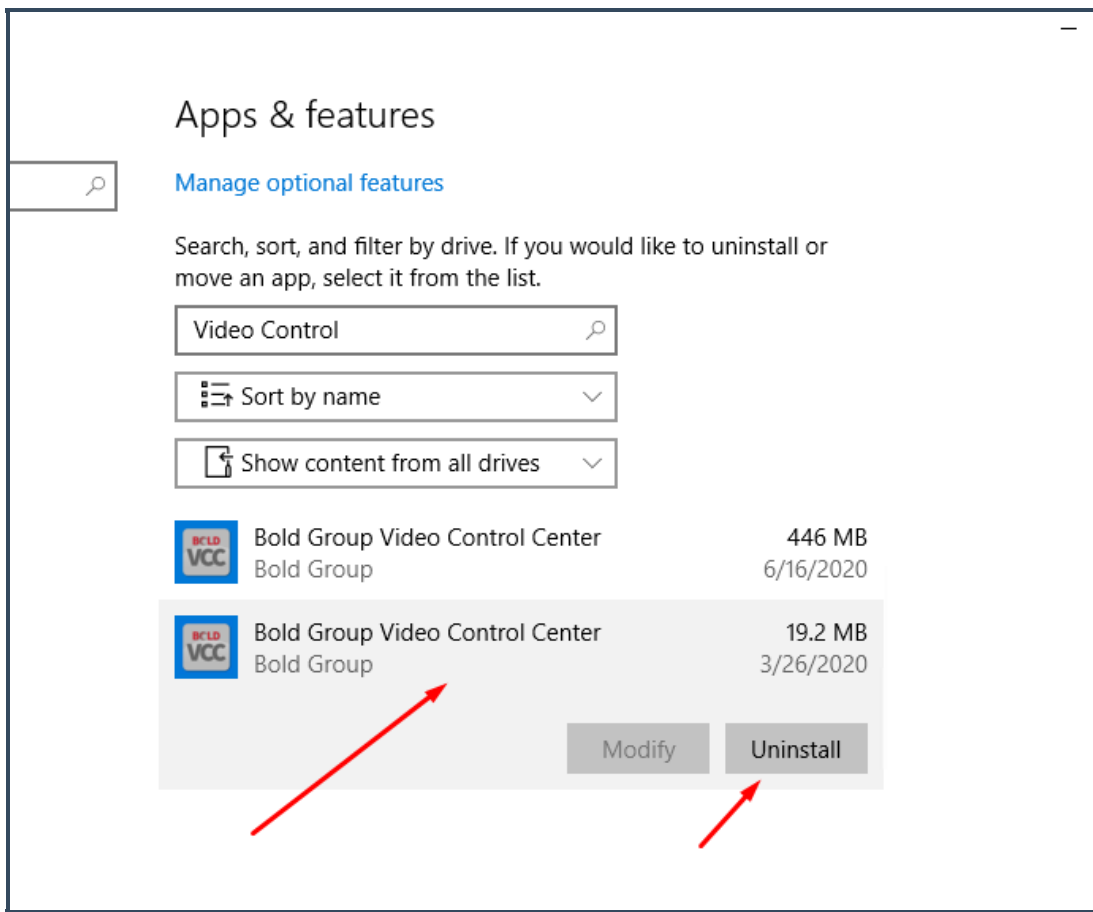
100 %

Results Messages

	AVTYPE	DESCR
1	NULL	NULL
2	3XLOGIC	3xLogic Vigil VCC
3	AVIG5	Avigilon 5 Video
4	AXISAMC	AXIS MEDIA CONTROL
5	AXISVAP	Axis VAPIX VCC
6	EXACQVIS	ExacqVision VCC
7	HIK5	HikVision VCC
8	HTVSI DVR	HTVSI DVR VCC
9	HTVSI NVR	HTVSI NVR VCC
10	INTAUDIO	NULL
11	OPENEYE	OpenEye Oscar VCC

Uninstall Old VCC Structure

You will then uninstall the existing VCC using the "Add and Remove Programs" functionality. This will un-register and clean up all the old structure for VCC that we will be replacing. If there are multiples, uninstall all of them.



Do not just delete the VCC folder and install the new one. This uninstall step is important!

If there are remnants in the VCC folder, this is a good indication that possibly there are dependencies that will need to be restored. You can either rename the VCC folder or delete it and use the previous backup. For this example, I have renamed it.

View				
PC > Local Disk (C:) > Program Files (x86) > Bold Technologies > Manitou > VCC				
Name	Date modified	Type	Size	
de	8/10/2020 4:17 PM	File folder		
en	8/10/2020 4:17 PM	File folder		
es	8/10/2020 4:17 PM	File folder		
fr	8/10/2020 4:17 PM	File folder		
it	8/10/2020 4:17 PM	File folder		
ja	8/10/2020 4:17 PM	File folder		
ko	8/10/2020 4:17 PM	File folder		
ru	8/10/2020 4:17 PM	File folder		
zh-Hans	8/10/2020 4:17 PM	File folder		
zh-Hant	8/10/2020 4:17 PM	File folder		
libeay32.dll	6/12/2020 3:29 PM	Application extens...	1,226 KB	
VCCEnvysionLib.dll.config	4/6/2020 5:20 PM	XML Configuratio...	1 KB	
VideoControlCenter.exe.config	2/25/2020 8:42 PM	XML Configuratio...	5 KB	

LocalCertificateUtility	6/16/2020 4:07 PM	File folder	
LocalUtilityService	6/26/2020 10:07 AM	File folder	
Old	6/26/2020 10:07 AM	File folder	
SqlServerTypes	5/14/2018 5:13 PM	File folder	
VCC - Copy	8/10/2020 2:24 PM	File folder	
VCC - Remnant	8/10/2020 4:18 PM	File folder	
WavFiles	5/14/2018 5:12 PM	File folder	
3XLOGIC.FEP	6/16/2020 3:41 PM	FEP File	
201805140605_MigrateDB.txt	5/14/2018 7:05 PM	Text Documen	
201806160227_MigrateDB.txt	6/16/2018 2:27 PM	Text Documen	
201806160230_MigrateDB.txt	6/16/2018 2:30 PM	Text Documen	
201806160238_MigrateDB.txt	6/16/2018 2:38 PM	Text Documen	

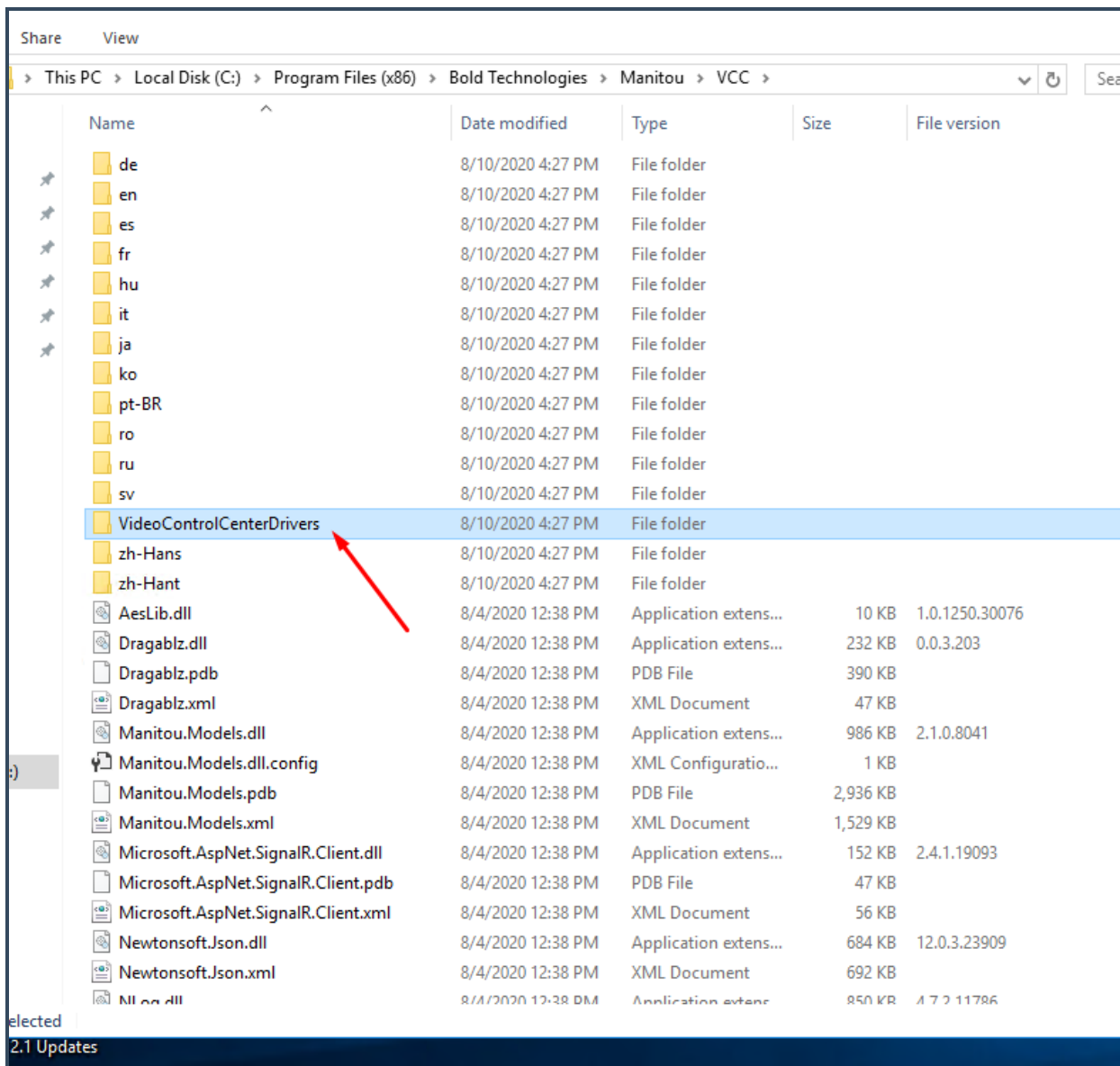
Install The New VCC

You will need to start with installing the BASE version of VCC. This piece presents the UI and handles all the communication with Manitou. This also installs a driver to process all of the BJS video types to support ALL customers that use legacy video.

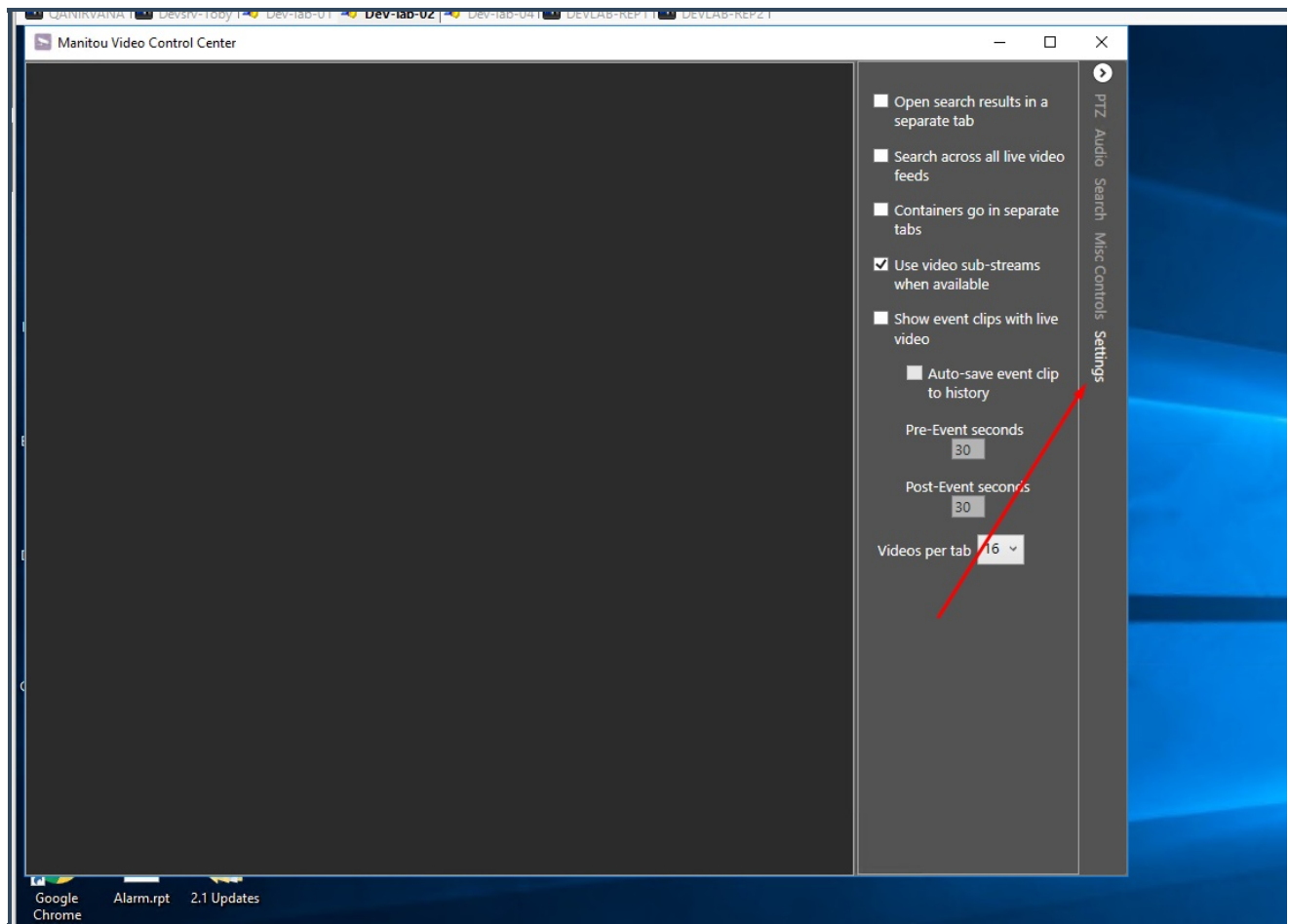
Name	Date modified
 ManitouWeb_setup.exe	8/7/2020 5:07 PM
 VCC_Driver_Avigilon7_setup.exe	8/4/2020 4:00 PM
 VCC_Driver_Axis_setup.exe	8/4/2020 4:31 PM
 VCC_Driver_DWVP7_setup.exe	8/4/2020 4:48 PM
 VCC_Driver_Envysion_setup.exe	8/4/2020 4:41 PM
 VCC_Driver_ExacqVision_setup.exe	8/4/2020 5:05 PM
 VCC_Driver_HikVision_setup.exe	8/5/2020 1:41 PM
 VCC_Driver_HTVSIDVR_setup.exe	8/5/2020 4:46 PM
 VCC_Driver_HTVSINVR_setup.exe	8/5/2020 4:55 PM
 VCC_Driver_InterfaceAudio_setup.exe	8/5/2020 5:04 PM
 VCC_Driver_MarchNetworks_setup.exe	8/5/2020 5:12 PM
 VCC_Driver_OpenEye_setup.exe	8/5/2020 5:21 PM
 VCC_Driver_RTSP_setup.exe	8/6/2020 11:15 AM
 VCC_Driver_Westec_setup.exe	8/5/2020 5:38 PM
 VCC_Base_setup.exe	8/4/2020 12:38 PM
 VCC_Driver_3xLogic_setup.exe	8/4/2020 3:09 PM
 VCC_Driver_AmericanDynamics_setup.exe	8/4/2020 3:51 PM
 VCC_Driver_Avigilon5_setup.exe	8/4/2020 4:15 PM
 VCC_Driver_Onvif_setup.exe	8/7/2020 3:57 PM

All Installers should be run in Administrator mode

VCC will now have a new folder where all subsequent drivers will be installed.



Now is also a good time to set the configuration back the way the customer would like. This can be done by referring to the saved configuration.

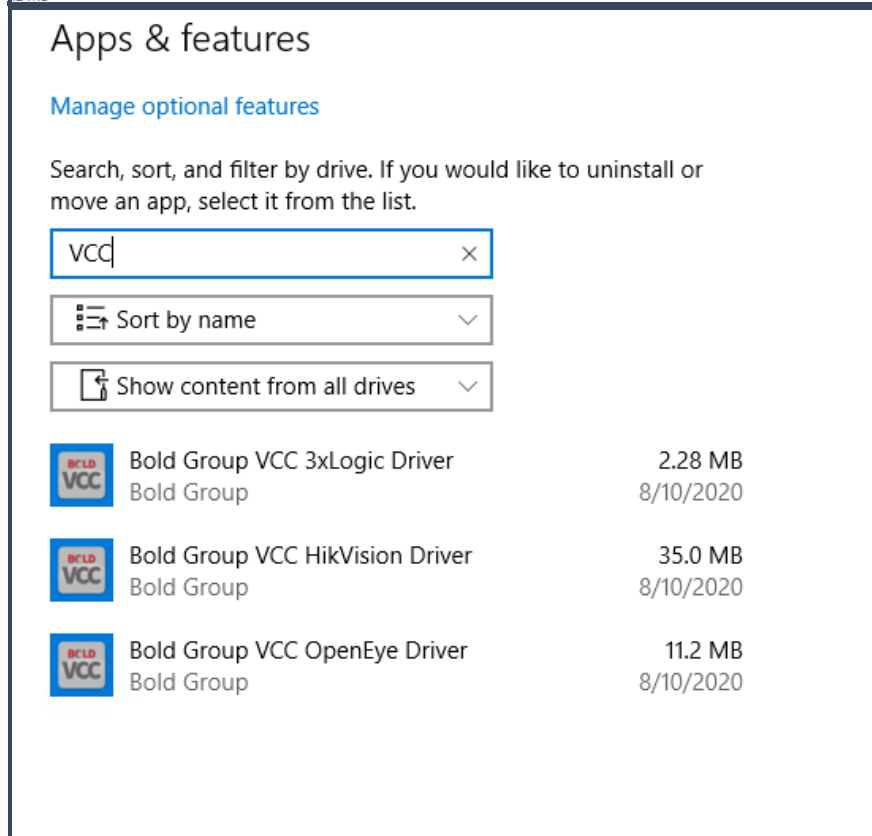
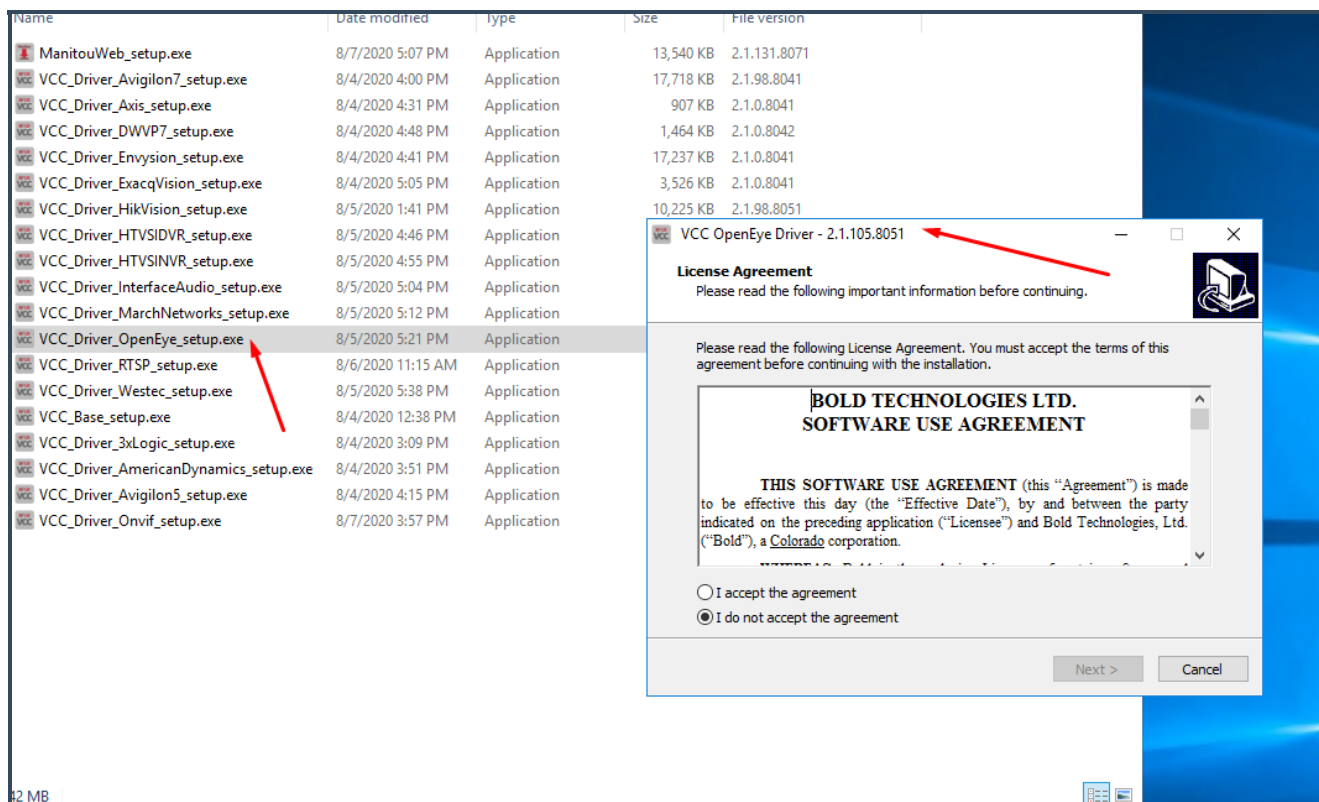


Finally, any dependencies for BJS video types should be restored. This is highly dependent on each type. We can't provide an exact comprehensive list. Testing against a backup server is recommended.

Do not just copy the entirety of the backup or remnant folders. The new VCC driver dlls must not be found at the root level in the new structure.

Install Each Driver Independently

Now that we have separate drivers, it is possible to install and update only what the customer is using and has paid for. Right now, the burden is on us to check that they have paid for each driver before installing it. This means that Implementation must only install the correct drivers going forward. So, for example, if I purchased OpenEye, HikVision, and 3xLogic, we would install those three and only those three.



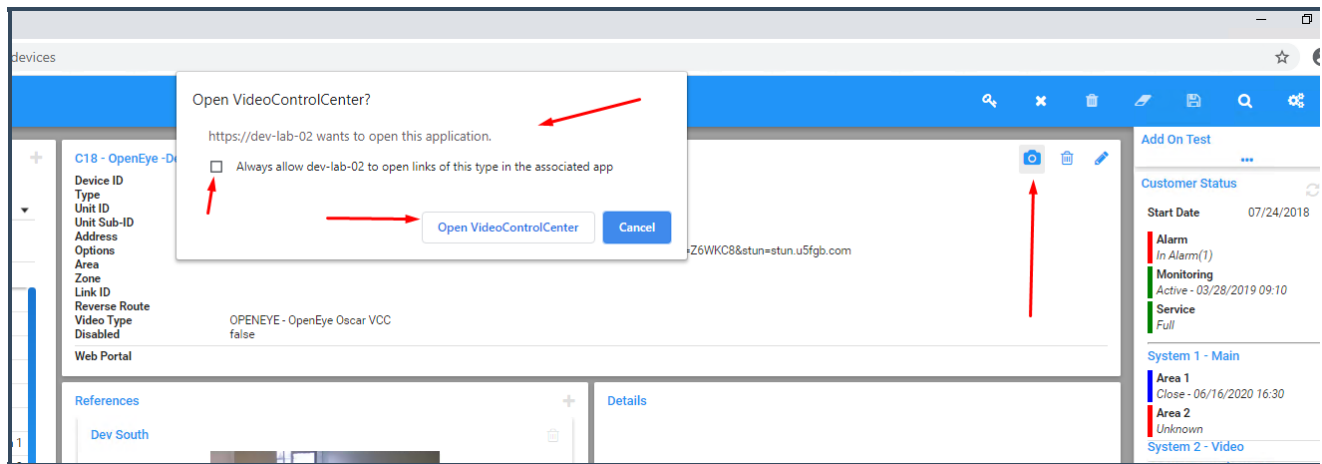
For Upgrades, it is easy to see which ones have been installed through the Add and Remove Programs. BUT we should check if the customer is still paying for support on the drivers before providing updates.

Using The New Structure

One of the biggest changes is that the Manitou Web Client does NOT talk directly to VCC anymore. It also does NOT use BoldLauncher to launch VCC. This greatly simplifies the process, as well as fixes several problems with other browsers besides Chrome. Now the Browser will just message the OS and tell it to launch VCC directly. VCC registers with the OS on this install.

VCC must be launched by the browser for the communication to the MWC to work. Launching it manually will not work.

When you launch a camera in the MWC, It will now ask a security question. Some browsers allow this answer to be saved but others do not. If it is not allowed by the browser, this question will pop up every time. In that case, it is best to leave VCC running and just close out the tabs in VCC.



This window is the proper secure way to handle these types of operations. It is a standard process with many software products we all use. We will not be considering this a bug as it is intended functionality and is outside our control.

Once VCC has been launched, subsequent calls to launch video will already have an established connection and are very fast. Driver specific controls have been moved into the Misc Controls tab. This means that we can cleanly show functionality that is supported by one driver and not the others.

