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Grasbrunn  
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## Patch procedure

Issue	A recently discovered security vulnerability affects the Building Integration System (BIS) software in cases of video integration. This patch is according to CVE-2019-6957 and CVE-2019-6958
Topic	<b>Upgrading BIS 4.5, 4.6 and 4.6.1 to VideoSDK 6.32</b>
Description	This document describes how to apply the patch to update a BIS installation to <b>Video SDK 6.32</b> The patch supports only BIS versions <b>4.5, 4.6 and 4.6.1</b> <b>BIS Patch build: 4.6.9928.0</b>

**IMPORTANT:** On the BIS server, back up the following folders before performing the procedures below:

“<My installation drive>:<My Path>\Mgts\ClientDeploy”

“<My installation drive>:<My Path>\Mgts\Video Engine\IISRoot\VideoEngineWeb”

## Updating BVIOPCServer

1. Unzip the `VSDK632Batch.zip` into a folder called `VSDK632Batch`
2. Copy the contents of the `VSDKBatch` into a temporary folder on the BIS server
3. On the BIS server, stop all BIS Services and close the configuration browser, if open
4. If BIS is installed in other than the `C:\Mgts` folder, edit the following variable in the batch file `ReplaceVSDK632.bat` in the temporary folder to reflect your installation drive and path:  
`BIS_MGTS_Path=<My installation drive>:<My Path>\Mgts`
5. In a command window, run the batch file `ReplaceVSDK32.bat` and save the output messages for future reference
6. Restart the BIS services
7. Clear the browser history from the Internet Explorer on all BIS servers and client machines (Internet Options menu)
8. Close and restart the BIS client

## Updating VideoSDKOPCServer

1. Stop BIS Services and close the BIS configuration browser
2. Use `VideoSDK.06.32.0099.x86.msi` to install VSDK6.32 on the BIS server and each connection server machine
3. Use `VideoSDKOPCServerSetup.exe` to install Video SDK OPC Server version 2.3.0.0 on the BIS server and each connection server machine

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ReplaceVSDK632.bat replaces the following files:

No	Name	Location
1	Custom.aspx	C:\MgtS\ClientDeploy
2	ClientDeploy.dll	C:\MgtS\ClientDeploy\bin
3	VideoSDK.aspx	C:\MgtS\Video Engine\IISRoot\VideoEngineWeb
4	imageDecoder.aspx	C:\MgtS\Video Engine\IISRoot\VideoEngineWeb
5	imageDibosLive.aspx	C:\MgtS\Video Engine\IISRoot\VideoEngineWeb
6	imageDivar.aspx	C:\MgtS\Video Engine\IISRoot\VideoEngineWeb
7	imageIpLive.aspx	C:\MgtS\Video Engine\IISRoot\VideoEngineWeb
8	imageJpegAx.aspx	C:\MgtS\Video Engine\IISRoot\VideoEngineWeb
9	infoArchive.aspx	C:\MgtS\Video Engine\IISRoot\VideoEngineWeb
10	Timeline.aspx	C:\MgtS\Video Engine\IISRoot\VideoEngineWeb
11	VM_Engine.dll	C:\MgtS\Video Engine\IISRoot\VideoEngineWeb\bin
12	VideoEngineIPC_Loader.cab	C:\MgtS\Video Engine\IISRoot\VideoEngineWeb\AX C:\MgtS\ClientDeploy\Packages\Video_Engine
13	VSDK_Loader.cab	C:\MgtS\Video Engine\IISRoot\VideoEngineWeb\AX C:\MgtS\ClientDeploy\Packages\Video_Engine
14	Bosch.VideoEngine.VSDKControls.dll	C:\MgtS\Video Engine\IISRoot\VideoEngineWeb\VSDK
15	Bosch.VideoEngine.VSDKPTZModels.dll	C:\MgtS\Video Engine\IISRoot\VideoEngineWeb\VSDK C:\MgtS\Video Engine\IISRoot\VideoEngineWeb\bin
16	Bosch.VideoSDK.AudioLib.dll	C:\MgtS\Video Engine\IISRoot\VideoEngineWeb\VSDK
17	Bosch.VideoSDK.AxCameoLib.dll	C:\MgtS\Video Engine\IISRoot\VideoEngineWeb\VSDK
18	Bosch.VideoSDK.CameoLib.dll	C:\MgtS\Video Engine\IISRoot\VideoEngineWeb\VSDK
19	Bosch.VideoSDK.GCALib.dll	C:\MgtS\Video Engine\IISRoot\VideoEngineWeb\VSDK
20	Timeline.dll	C:\MgtS\Video Engine\IISRoot\VideoEngineWeb\VSDK

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**FAQs:**

- Q: What does “ReplaceVSDK32.bat” do on the BIS Server computer?  
A: It overwrites all the files listed in the table above and writes a trace to standard output.

```

C:\Windows\system32\cmd.exe
-----
!!!!!!!!!!!!!!!!!!!! Warning !!!!!!!!!!!!!!!!!!!!!
This process will stop IIS services and replace files at
1. C:\Mgts\Video Engine\IISRoot\VideoEngineWeb and
2. C:\Mgts\ClientDeploy
-----
Using BIS folder      : "C:\MgtS"
Stop IIS

Attempting stop...
Internet services successfully stopped

Copying into : "C:\MgtS\ClientDeploy"
.\ClientDeploy\custom.aspx
1 File(s) copied

Copying into : "C:\MgtS\ClientDeploy\bin"
.\ClientDeploy\ClientDeploy.dll
1 File(s) copied

Copying into : "C:\MgtS\ClientDeploy\Packages\Video_Engine"
.\CAB\VideoEngineIPC_Loader.cab
.\CAB\VSDK_Loader.cab
2 File(s) copied

Copying into : "C:\MgtS\Video Engine\IISRoot\VideoEngineWeb\AX"
.\CAB\VideoEngineIPC_Loader.cab
.\CAB\VSDK_Loader.cab
2 File(s) copied

Copying into : "C:\MgtS\Video Engine\IISRoot\VideoEngineWeb"
.\VideoEngineWeb\imageDecoder.aspx
.\VideoEngineWeb\imageDibosLive.aspx
.\VideoEngineWeb\imageDivar.aspx
.\VideoEngineWeb\imageIplive.aspx
.\VideoEngineWeb\imageJpegAx.aspx
.\VideoEngineWeb\infoArchive.aspx
.\VideoEngineWeb\timeline.aspx
.\VideoEngineWeb\VideoSDK.aspx
8 File(s) copied

Copying into : "C:\MgtS\Video Engine\IISRoot\VideoEngineWeb\VSDK"
.\VSDK\Bosch.VideoEngine.VSDKControls.dll
.\VSDK\Bosch.VideoEngine.VSDKPTZModels.dll
.\VSDK\Bosch.VideoSDK.AudioLib.dll
.\VSDK\Bosch.VideoSDK.AxCameoLib.dll
.\VSDK\Bosch.VideoSDK.CameoLib.dll
.\VSDK\Bosch.VideoSDK.GCALib.dll
.\VSDK\Timeline.dll
7 File(s) copied

Copying into : "C:\MgtS\Video Engine\IISRoot\VideoEngineWeb\bin"
.\VSDK\Bosch.VideoEngine.VSDKPTZModels.dll
1 File(s) copied
.\CAB\VM_Engine.dll
1 File(s) copied

Start IIS

Attempting start...
Internet services successfully started
Press any key to continue . . .
    
```

- Q: How can I verify that the BIS client has successfully upgraded the Video SDK?  
A: Launch “**Advanced C# Program**” from BIS client computer menu > **Bosch VideoSDK**. Its header will show a VSDK version number of 6.32.0099

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3. Q: The BIS client has not successfully updated to the latest VSDK. What action should I take?

A: Four steps:

Step1: Look for errors in the standard output messages from "ReplaceVSDK32.bat". (See FAQ no.1)

Step 2: Delete the "MgtC" folder from the BIS client computer (C:\Program files (x86) \)

Step 3: Clear the history from Internet Explorer > Internet Options, and restart the Internet Explorer on the BIS client

Step 4: Restart the BIS client

\*End of document\*