



SCHILLE

**VMClientOCX Documentation**  
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Revision History .....	3
ActiveX Control VideoClientOCX.....	4
VideoClientOCX Interfaces .....	5
1. ConnectToServer .....	5
2. SetFrameLess .....	5
3. ConnectVideoSource.....	6
3. VideoSourceCommand .....	7
4. ExportImage .....	9
5. GetMode .....	9
6. PlayModeCurrenttime .....	10
7. PlayModeEndtime .....	10
8. PlayModeStarttime .....	11
9. SetMode .....	11
10. PlayModeCommand .....	12
11. PlayModeSearchTime .....	13
12. PlayModeState .....	13
13. VideoSourceCameraCommands.....	14
14. VideoSourceHasPTZ .....	15
15. VideoSourceHasRecording .....	15
16. VideoSourceListCount .....	16
17. VideoSourceListEntry .....	16
HTML file sample .....	17

### Revision History

Version	Date	Comment
<b>001</b>	<b>FEB/1/2009</b>	<b>First issue Complies with VMClientOCX version 1.2.1.142</b>

## **ActiveX Control VideoClientOCX**

The document provides an overview of how 3rd party-applications or Schille PVis™ management system can integrate SiVM components via the VideoClientOCX. The reader should be familiar with IP video and Windows™ COM/DCOM technologies.

The VideoClientOCX acts as a SiVM client workstation. This control may be embedded into browser based applications or programs developed with MS C++, MS Visual Basic or Borland Delphi. The control may show up to 9 video channels in a 3x3 matrix. It contains an optional user interface for selecting the video channels, controlling ptz- and i/o-functions and for playback navigation. In addition all these functions are exported inside the ActiveX.

## VideoClientOCX Interfaces

The ClassID of the VideoClientOCX is *9EC0768B-A6D1-4771-9E0F-56A58E42347E*. It exports following methods:

### 1. *ConnectToServer*

#### Description

Connects to a VM Video Server

#### Syntax

VMVideoClientOX.ConnectToServer HOST PORT

#### Parameters

HOST            STRING Name of host or ip-address of the VM server  
PORT            STRING Port number as configured at the VM server

#### Remarks

Authentication will be implemented in the future. The authentication has to be disabled on the VM server's side.

#### Example

VMVideoClientOX.ConnectToServer LOCALHOST 5401

### 2. *SetFrameLess*

#### Description

Switches to frame less mode.

#### Syntax

VMVideoClientOX.SetFrameLess MODE

#### Parameters

MODE            INTEGER            Frameless mode

#### Remarks

The mode parameter will be ignored. Any value will enable the frame less mode.

#### Example

VMVideoClientOX.SetFrameLess 0

### 3. *ConnectVideoSource*

#### Description

Connects a video source to monitor 1.

#### Syntax

VMVideoClientOX.ConnectVideoSource MONITOR SOURCE

#### Parameters

MONITOR	INTEGER	Current Monitor
SOURCE	STRING	Video source identifier

#### Remarks

The video source identifier contains the path and the name of the videosource separated by a slash "/".

#### Example

VMVideoClientOX.ConnectVideoSource ENTRANCE.NORTH/CAMERA1

### **3. VideoSourceCommand**

#### **Description**

Sends commands to current connected video source.

#### **Syntax**

VMVideoClientOX.VideoSourceCommand MONITOR COMMAND PARAM

#### **Parameters**

MONITOR	INTEGER	Current monitor
COMMAND	INTEGER	Command as described below
PARAM	STRING	Additional command parameter

#### **Remarks**

In frame less mode the MONITOR parameter has to be set to 1.

Following commands are supported:

COMMAND	Command	Remarks
0	PTZ HOME	PTZ Home position
1	PTZ TILT UP	Optional speed value in PARAM
2	PTZ TILT UP STOP	
3	PTZ TILT DOWN	Optional speed value in PARAM
4	PTZ TILT DOWN STOP	
5	PTZ PAN LEFT	Optional speed value in PARAM
6	PTZ PAN LEFT STOP	
7	PTZ PAN RIGHT	Optional speed value in PARAM
8	PTZ PAN RIGHT STOP	
9	PTZ ZOOM NEAR	
10	PTZ ZOOM NEAR STOP	
11	PTZ ZOOM FAR	
12	PTZ ZOOM FAR STOP	
13	-	
14	PTZ FOCUS NEAR	If supported by video source
15	PTZ FOCUS NEAR STOP	If supported by video source
16	PTZ FOCUS FAR	If supported by video source
17	PTZ FOCUS FAR STOP	If supported by video source
18	PTZ FOCUS AUTO	If supported by video source
19	PTZ IRIS CLOSE	If supported by video source
20	PTZ IRIS CLOSE STOP	If supported by video source
21	PTZ IRIS OPEN	If supported by video source
22	PTZ IRIS OPEN STOP	If supported by video source
23	PTZ IRIS AUTO	If supported by video source
24	GET PRESET POSITION	PARAM contains preset position 1 to 64
25	SET PRESET POSITION	PARAM contains preset position 1 to 64
26	FUNCTION 1	Optional video source function 1
27	FUNCTION 2	Optional video source function 2
28	FUNCTION 3	Optional video source function 3
29	FUNCTION 4	Optional video source function 4
30	FUNCTION 5	Optional video source function 5
31	FUNCTION 6	Optional video source function 6
32	PTZ LEFT UP	If supported - optional speed value in PARAM
33	PTZ LEFT UP STOP	If supported - optional speed value in PARAM
34	PTZ LEFT DOWN	If supported - optional speed value in PARAM
35	PTZ LEFT DOWN STOP	If supported - optional speed value in PARAM
36	PTZ RIGHT UP	If supported - optional speed value in PARAM
37	PTZ RIGHT UP STOP	If supported - optional speed value in PARAM
38	PTZ RIGHT DOWN	If supported - optional speed value in PARAM
39	PTZ RIGHT DOWN STOP	If supported - optional speed value in PARAM

**Example**

VMVideoClientOX.VideoSourceCommand 1 5 "" – Starts PTZ pan left

## 4. ExportImage

**Description**

Creates a Bitmap from current image.

**Syntax**

VMVideoClientOX.ExportImage MONITOR FILENAME

**Parameters**

MONITOR	INTEGER	Current monitor
FILENAME	INTEGER	Filename to save Bitmap-File

**Remarks**

None

## 5. GetMode

**Description**

Returns actual mode from monitor.

**Syntax**

VMVideoClientOX.GetMode MONITOR

**Parameters**

MONITOR	INTEGER	Current monitor
---------	---------	-----------------

**Remarks**

Return Values (int):

- 0 = Disconnected
- 1 = Error
- 2 = Live mode
- 3 = Play mode

## 6. *PlayModeCurrenttime*

### Description

Returns current time from selected monitor.

### Syntax

VMVideoClientOX.PlayModeCurrenttime MONITOR

### Parameters

MONITOR                      INTEGER              Current monitor

### Remarks

Return Value (BSTR)

Return Format: YYYYMMDDHHMMSSXXX

### Example

20090203150703245 → 03.02.2009 15:07:03.245

## 7. *PlayModeEndtime*

### Description

Returns end time of records from selected monitor.

### Syntax

VMVideoClientOX.PlayModeEndtime MONITOR

### Parameters

MONITOR                      INTEGER              Current monitor

### Remarks

Return Value (BSTR)

Return Format: YYYYMMDDHHMMSSXXX

### Example

20090203150703245 → 03.02.2009 15:07:03.245

## 8. *PlayModeStarttime*

### Description

Returns start time of records from selected monitor.

### Syntax

VMVideoClientOX.PlayModeStarttime MONITOR

### Parameters

MONITOR	INTEGER	Current monitor
---------	---------	-----------------

### Remarks

Return Value (BSTR)

Return Format: YYYYMMDDHHMMSSXXX

### Example

20090203150703245 → 03.02.2009 15:07:03.245

## 9. *SetMode*

### Description

Sets Mode to selected monitor.

### Syntax

VMVideoClientOX.SetMode MONITOR MODE

### Parameters

MONITOR	INTEGER	Current monitor
MODE	INTEGER	Mode

### Remarks

Parameter: Mode

0 : Live mode (Command only necessary while being in play mode)

1 : Play mode

Return Value (INT)

0 : Not Successful

1 : Successfu

## 10. *PlayModeCommand*

### Description

Sets play mode command to selected monitor.

### Syntax

VMVideoClientOX.PlayModeCommand MONITOR COMMAND

### Parameters

MONITOR	INTEGER	Current monitor
COMMAND	INTEGER	Play mode command

### Remarks

Parameter: COMMAND

- 0 : Pause
- 1 : StepNextImage (Results pause state)
- 2 : StepPreviousImage (Results pause state)
- 3 : PlayBackwards
- 4 : PlayForwards
- 5 : TrackStart (Results pause state)
- 6 : TrackEnd (Results pause state)
- 7 : PlayFastBackwards
- 8 : PlayFastForwards
- 9 : SelectPreviousTrack (Results pause state)
- 10: SelectNextTrack (Results pause state)

## 11. *PlayModeSearchTime*

### Description

Searches for timestamp in recorded data.

### Syntax

VMVideoClientOX.PlayModeSearchTime MONITOR TIMECODE

### Parameters

MONITOR	INTEGER	Current monitor
TIMECODE	STRING	Timestamp

### Remarks

Whether there is no recorded data for the declared timestamp, it will return the next timestamp close to it.

### Example

Date	Time	→ Timecode format
03.02.2009	15:07:03.245	→ 20090203150703245

## 12. *PlayModeState*

### Description

Returns actual play mode state.

### Syntax

VMVideoClientOX.PlayModeState MONITOR

### Parameters

MONITOR	INTEGER	Current monitor
---------	---------	-----------------

### Remarks

Return Value (INT)

- 0 : Not in play mode
- 1 : Pause
- 2 : PlayBackwards
- 3 : PlayForwards
- 4 : PlayFastBackwards
- 5 : PlayFastForwards

## 13. VideoSourceCameraCommands

### Description

Returns available camera commands.

### Syntax

VMVideoClientOX.VideoSourceCameraCommands ENTRY

### Parameters

ENTRY            INTEGER            Number of entry in camera list

### Remarks

Parameter ENTRY:            Available entries: 1...VideoSourceListCount

### Return Value (INT64)

PTZDefinedHome	= 0x0000000000000100;
PTZDefinedLeft	= 0x0000000000000200;
PTZDefinedRight	= 0x0000000000000400;
PTZDefinedUp	= 0x0000000000000800;
PTZDefinedDown	= 0x0000000000001000;
PTZDefinedZoomNear	= 0x0000000000002000;
PTZDefinedZoomFar	= 0x0000000000004000;
PTZDefinedFocusNear	= 0x0000000000008000;
PTZDefinedFocusFar	= 0x0000000000010000;
PTZDefinedFocusAuto	= 0x0000000000020000;
PTZDefinedIrisClose	= 0x0000000000040000;
PTZDefinedIrisOpen	= 0x0000000000080000;
PTZDefinedIrisAuto	= 0x0000000000100000;
PTZDefinedGetPosition	= 0x0000000000200000;
PTZDefinedSetPosition	= 0x0000000000400000;
PTZDefinedFunc1	= 0x0000000000800000;
PTZDefinedFunc2	= 0x0000000001000000;
PTZDefinedFunc3	= 0x0000000002000000;
PTZDefinedFunc4	= 0x0000000004000000;
PTZDefinedFunc5	= 0x0000000008000000;
PTZDefinedFunc6	= 0x0000000010000000;
PTZDefinedLeftUp	= 0x0000000100000000;
PTZDefinedRightUp	= 0x0000000200000000;
PTZDefinedLeftDown	= 0x0000000400000000;
PTZDefinedRightDown	= 0x0000000800000000;

## 14. *VideoSourceHasPTZ*

### Description

Verifies whether PTZ Commands are available.

### Syntax

VMVideoClientOX.VideoSourceHasPTZ ENTRY

### Parameters

ENTRY            INTEGER            Number of entry in cameralist

### Remarks

Parameter ENTRY:

Available entries: 1...VideoSourceListCount

Return Value (INT)

0 : No PTZ commands available

1 : PTZ commands available

## 15. *VideoSourceHasRecording*

### Description

Verifies whether recorded data is available.

### Syntax

VMVideoClientOX.VideoSourceHasRecording ENTRY

### Parameters

ENTRY            INTEGER            Number of entry in cameralist

### Remarks

Parameter ENTRY:

Available entries: 1...VideoSourceListCount

Return Value (INT)

0 : No recorded data available

1 : recorded data available

## **16. VideoSourceListCount**

### **Description**

Returns number entries of cameralist.

### **Syntax**

VMVideoClientOX.VideoSourceListCount

## **17. VideoSourceListEntry**

### **Description**

Returns name of entry in cameralist.

### **Syntax**

VMVideoClientOX.VideoSourceListEntry ENTRY

### **Parameters**

ENTRY            INTEGER            Number of entry in cameralist

### **Remarks**

Parameter ENTRY:

    Available entries: 1...VideoSourceListCount

Return Value (BSTR)

    Name of entry in cameralist

## HTML file sample

Describe the following "object" element in a HTML file in order to call the VMVideoClientOCX:

```
<HTML>
<center> <P>
<OBJECT id=VMVideoClient
classid="clsid:9EC0768B-A6D1-4771-9E0F-56A58E42347E"
codebase="./VMVideoClientOCX.OCX#version=1,2,1,0"
width=800 height=600 align=center hspace=0 vspace=0>
</OBJECT>

<SCRIPT language=VBScript>
Sub window_onLoad()
    VMVideoClient.ConnectToServer location.hostname,location.port
end sub
</SCRIPT>

</HTML>
```

If not used within the video management server's WEB-directory replace the parameters *location.hostname* and *location.port* with the server's ip-address and port-number. There may be a case that some client application cannot view the OCX correctly if the *#version=* indication is different from the version of the ActiveX viewer which is located in the path.



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