

This Guide will show you the installation of C-MOR Video Surveillance on a Microsoft Hyper-V server. You are able to download the Microsoft Hyper-v 2012 server on <u>http://www.microsoft.com/en-us/server-cloud/hyper-v-server/</u>. If you want to download the Microsoft Hyper-V 2008 R2 you have to follow the following link <u>http://www.microsoft.com/de-de/download/details.aspx?id=3512</u>.

Also you need the C-MOR ISO file. This file you will find following this link: <u>http://www.c-mor.com/video-surveillance/download-vm.php</u>.

Hyper-V is an integrated windows feature on Windows 8, but you can also install on Windows 7 but therefore you need Microsoft Hyper-V Server 2008 or 2008 R2.

The following introduction is on Windows 8, but the installation doesn't differ from the installation on Windows 7.

First you have to activate Hyper-V on Windows therefore you have to go to Control Panel \rightarrow Programs and Features there you have to choose "Turn Windows features on or off".

) 🅘 - 🕇 🔯 🕨 Contro	ol Panel → All Control Panel Items → Programs and Features				v C	Search Programs and Features	Q
Control Panel Home	Uninstall or change a program						
View installed updates Turn Windows features on of	To uninstall a program, select it from the list and then	click Uninstall, Change, or Repair.					
off	Organize 👻					833 💌	G
Install a program from the network	Name	Publisher	Installed On	Size	Version		
	💋 Adobe Flash Player 15 Plugin	Adobe Systems Incorporated	9/9/2014	6.00 MB	15.0.0.152		
	Adobe Reader XI (11.0.09) - Deutsch	Adobe Systems Incorporated	9/24/2014	191 MB	11.0.09		
	Research and Deployment Kit	Microsoft Corporation	8/8/2014	75.6 MB	8.59.25584		
	😺 Bonjour	Apple Inc.	8/1/2014	1.74 MB	2.0.2.0		
	CorelDRAW Graphics Suite X3	Corel Corporation	8/13/2014				
	DYMO Label v.8	Sanford, L.P.	8/1/2014		8.5.1.1816		
	EaseUS Partition Master 10.1	EaseUS	9/1/2014	104 MB			
	🔁 FileZilla Client 3.9.0.3	Tim Kosse	8/19/2014	22.0 MB	3.9.0.3		
	Sovit Cloud	Foxit Corporation	6/16/2014	7.01 MB	1.3.99.311		
	📶 Foxit Reader	Foxit Corporation	6/16/2014	102 MB	6.2.0.429		
	🔀 Hide-My-Address	Wirth IT Design	6/16/2014	589 KB	2.00.0000		
	😹 Intel® Graphics Driver	Intel Corporation	6/3/2014	74.2 MB	10.18.10.3412		
	1 Microsoft Office Professional Plus 2013	Microsoft Corporation	6/11/2014		15.0.4420.1017		
	Microsoft Visual C++ 2008 Redistributable - x86 9.0.2	Microsoft Corporation	9/5/2014	5.25 MB	9.0.21022		
	Microsoft Visual C++ 2010 x64 Redistributable - 10.0	Microsoft Corporation	8/1/2014	13.8 MB	10.0.40219		
	Microsoft Visual C++ 2010 x86 Redistributable - 10.0	Microsoft Corporation	8/1/2014	11.1 MB	10.0.40219		
	🔀 Microsoft Visual Studio 2010 Tools for Office Runtim	Microsoft Corporation	8/1/2014		10.0.40820		
	🛱 Microsoft Visual Studio 2010-Tools für Office-Laufzei	Microsoft Corporation	8/1/2014		10.0.40820		
	📵 Mozilla Firefox 31.0 (x86 de)	Mozilla	7/30/2014	69.6 MB	31.0		
	📸 Mozilla Maintenance Service	Mozilla	6/3/2014	224 KB	29.0.1		
	Wotepad++	Notepad++ Team	7/24/2014		6.6.7		



Select "Hyper-V" to install the feature on your personal computer. Confirm your selection with "OK".

Turn Window	s features on or off	
	on, select its check box. To turn a fea d box means that only part of the fea	
🕀 🔳 🚺 .NET Fr	ramework 3.5 (includes .NET 2.0 and	3.0)
🕀 🔳 🚺 .NET Fr	ramework 4.5 Advanced Services	
Active	Directory Lightweight Directory Servi	ces
Hyper-	V	
	per- Management Tools	
	V Platform	
	t Explorer 11	
The second s	t Information Services	<u>,</u>
	t Information Services Hostable Web	Core
	Components Features	
	oft Message Queue (MSMQ) Server	~
	OIL IVIESSAGE QUEUE IIVISIVIUI SELVEL	1000

Now it is possible that you will get a request, which want to start new your PC. Follow this request and start your PC new to install Hyper-V.

After restart your PC you can search "Hyper-V"



C-MOR Video Surveillance on Microsoft Hyper-V server



Before setting up a virtual machine it's necessary to create a network connection. This step is only necessary if no network was set up yet.

a	Hyper-V Manager – 🗖 🗙
File Action View Help	
🗢 🔿 🖄 📰 🚺	
Hyper-V Manager	Actions
PC09	Virtual Machines PC09
	Name State CPU Usage Assigr New
	C-MOR Off Bachine
	C-MOR JW Off Hyper-V Settings
	Win7Test Off Virtual Switch Manager
	🤬 Virtual SAN Manager
	< dd Edit Disk
	🖾 Inspect Disk
	Checkpoints Stop Service
	The selected virtual machine has no checkpoi 🗡 Remove Server
	Q Refresh
	View
	I Help
	C-MOR
	🤯 Connect
	C-MOR 🔀 Settings
	I Start
	Created: 11/11/2014 4:21:01 PM Clust Version: 5.0
	Generation: 1
	Notes: None 🔊 Export
	🛒 Rename
	Delete
	Summary Memory Networking
	< >

C-MOR Video Surveillance on Microsoft Hyper-V server



Please select "External" and click on "Create Virtual Switch". External means to create a connection with the computers physical network interface

31	Virtual Switch Manager for PC09 - 🗆 🗙
 Virtual Switches New virtual network switch AN-Adapter Controller der Familie Realtek PCIe Host Only Internal only Global Network Settings MAC Address Range 00-15-5D-01-B3-00 to 00-15-5D-0 	Internal Private
	OK Cancel Apply

C-MOR Video Surveillance on Microsoft Hyper-V server



Now you can choose a name for your Virtual Switch. In our example we set "za-internet". Be sure that your selection is still an "External network". You can also select a network connection to connect the switch later. Have you followed the introduction please confirm with "OK" and go on.

Virtual Switches	Virtual Switch Properties
New virtual network switch	
LAN-Adapter Controller der Familie Realtek PCIe.	Name
Controller der Familie Realter PCIe. Most Only	
Internal only	Notes:
za-internet Controller der Familie Realtek.	
Slobal Network Settings	
MAC Address Range 00-15-5D-01-B3-00 to 00-15-5D-0	Connection type What do you want to connect this virtual switch to?
	Controller der Familie Realtek PCIe GBE
	☑ Allow management operating system to share this network adapter
	O Internal network
	O Private network
	VLAN ID
	Enable virtual LAN identification for management operating system
	The VLAN identifier specifies the virtual LAN that the management operating system will use for all network communications through this network adapter. This setting does not affect virtual machine networking.
	Remove

C-MOR Video Surveillance on Microsoft Hyper-V server



Confirm the following request with "Yes"



Attention! Your network connection will be break up. But during the next steps your connection will be restored again.

C-MOR Video Surveillance on Microsoft Hyper-V server



Now you are on the start page of Hyper-V-Manager.

To create a virtual computer you have to select "New" on the right side and then "Virtual Machine".

Actions		
PC09	· .	
New Import Virtual Machine	 Virtual Machine Hard Disk 	>
 Hyper-V Settings Virtual Switch Manager Virtual SAN Manager 	Floppy Disk	
💋 Edit Disk 🔄 Insp <mark>ect</mark> Disk		
 Stop Service Remove Server 		
Refresh View		
👔 Help		

C-MOR Video Surveillance on Microsoft Hyper-V server



Following Window will be appear:

Just go on with the button "Next".

â.	New Virtual Machine Wizard	×
Before You	Begin	
Before You Begin Specify Name and Location Specify Generation Assign Memory Configure Networking Connect Virtual Hard Disk Installation Options Summary	 This wizard helps you create a virtual machine. You can use virtual machines in place of physical computers for a variety of uses. You can use this wizard to configure the virtual machine now, and you can change the configuration later using Hyper-V Manager. To create a virtual machine, do one of the following: Click Finish to create a virtual machine that is configured with default values. Click Next to create a virtual machine with a custom configuration. 	
	< Previous Next > Finish Cancel	

C-MOR Video Surveillance on Microsoft Hyper-V server



Step 1: You have to select a name for your virtual computer and to choose a location to save it, whether you want to save it. **Offer:** If you haven't much space on your "Local Disk C:" choose another Disk to save it, e.g. D:\... If you have finished this step, go on with "Next" to step 2.

2 8	New Virtual Machine Wizard	×
Specify Na	ame and Location	
Before You Begin Specify Name and Location Specify Generation Assign Memory Configure Networking Connect Virtual Hard Disk Installation Options Summary	Choose a name and location for this virtual machine. The name is displayed in Hyper-V Manager. We recommend that you use a name that helps you easily identify this virtual machine, such as the name of the guest operating system or workload. Name: C-MOR You can create a folder or use an existing folder to store the virtual machine. If you don't select a folder, the virtual machine is stored in the default folder configured for this server. ✓ Store the virtual machine in a different location Location: C:\ProgramData\Vicrosoft\Windows\Hyper-V\ If you plan to take checkpoints of this virtual machine, select a location that has enough free space. Checkpoints include virtual machine data and may require a large amount of space.	
	< Previous Next > Finish Cancel	

C-MOR Video Surveillance on Microsoft Hyper-V server



Step 2: Now you are asked to select a generation of the virtual machine. C-MOR only works with the setting "Generation 1".



C-MOR Video Surveillance on Microsoft Hyper-V server



Step 3: Afterwards you reach the settings where you have to assign memory for your virtual machine. **Attention!** The size shouldn't be too big. We suggest to assign 1024MB virtual memory. C-MOR just with one camera is able to work with 512MB virtual memory.



C-MOR Video Surveillance on Microsoft Hyper-V server



Step 4: Now you have to configure your network. Please select the virtual switch you have created first.

8 6	New Virtual Machine Wizard	×
Configure N	tworking	
Before You Begin Specify Name and Location Specify Generation Assign Memory Configure Networking Connect Virtual Hard Disk Installation Options Summary	Each new virtual machine includes a network adapter. You can configure the network adapter to use a virtual switch, or it can remain disconnected.	
	< Previous Next >> Finish Cancel]



Step 5: To install the operating system the virtual machine feature space. Now you are able to choose the space you need. **Attention!** The space limit of C-MOR is 2TB! Now you have to decide for a virtual disk space. If you want to do the installation automatically it isn't necessary to remember the space later. But if you want to do your own partitioning you have to remember the space you choose for the installation later.

(1)	New Virtual Machine Wizard	×
Connect Vir	tual Hard Disk	
Before You Begin Specify Name and Location Specify Generation Assign Memory Configure Networking	A virtual machine requires storage so that you can install an operating system. You can specify the storage now or configure it later by modifying the virtual machine's properties. Create a virtual hard disk Use this option to create a VHDX dynamically expanding virtual hard disk. Name: C-MOR.vhdx	
Connect Virtual Hard Disk Installation Options Summary	Name: C:\ProgramData\Microsoft\Windows\Hyper-V\C-MOR\Virtual Hard E Location: C:\ProgramData\Microsoft\Windows\Hyper-V\C-MOR\Virtual Hard E Size: 127 Browse Size: 127 Browse 64 TB) O Use an existing virtual hard disk Use this option to attach an existing virtual hard disk, either VHD or VHDX format.]
	Location: C:\Users\Public\Documents\Hyper-V\Virtual Hard Disks\ Browse O Attach a virtual hard disk later Use this option to skip this step now and attach an existing virtual hard disk later.	
	< Previous Next > Finish Cancel	

C-MOR Video Surveillance on Microsoft Hyper-V server



Step 6: Choose "Install an operating system from a bootable CD/DVD-ROM", than choose "Image file (.iso)" and now browse the ISO file you have downloaded first.

â.	New Virtual Machine Wizard	×
	1 Options	
Before You Begin Specify Name and Location Specify Generation Assign Memory Configure Networking Connect Virtual Hard Disk	You can install an operating system now if you have access to the setup media, or you can install it later. Install an operating system later Install an operating system from a bootable CD/DVD-ROM Media Physical CD/DVD drive: D:	
Installation Options Summary	Image file (.iso): O_surveillance-v4-11pl07/c-mor-v4-11pl07-en.iso Browse Install an operating system from a bootable floppy disk Media Virtual floppy disk (.vfd): Browse Install an operating system from a network-based installation server	
	< Previous Next > Finish Cancel	

C-MOR Video Surveillance on Microsoft Hyper-V server



Step 7: Check your "summary" of correctness. If everything is right, you can "finish" the new virtual machine wizard.

δ N	New Virtual Machine Wizard
Completing	the New Virtual Machine Wizard
Before You Begin Specify Name and Location Specify Generation	You have successfully completed the New Virtual Machine Wizard. You are about to create the following virtual machine. Description:
Specify Generation Assign Memory Configure Networking Connect Virtual Hard Disk Installation Options Summary	Name: C-MOR Generation: Generation 1 Memory: 512 MB Network: LAN-Adapter Hard Disk: C:\ProgramData\Microsoft\Windows\Hyper-V\C-MOR\Virtual Hard Disks\C-MOR.v Operating System: Will be installed from C:\Users\selcanc\C-MOR Doku Installer\c-mor-video-surveill
	Concel

C-MOR Video Surveillance on Microsoft Hyper-V server



Step 8: on the front page of Hyper-V Manager you can see your virtual machine. Certainly your new virtual machine is still off. So you have to select "Connect" on the right side.

	Hyper-V Manager	- • ×		
File Action View Help				
🗢 🏟 🖄 📰 🖬				
Hyper-V Manager		Actions PC09		
PC09	Virtual Machines PC			
	Name State CPU Usage Assign	New		
	C-MOR Off	Import Virtual Machine		
	C-MORV4.11PL07DE Off	Hyper-V Settings		
		Virtual Switch Manager		
		Virtual SAN Manager		
	de de	💋 Edit Disk		
		📓 Inspect Disk		
	۲	Stop Service		
	X	Remove Server		
	Q	Refresh		
		View •		
	< [2]	Help		
	Checkpoints C-I	MOR		
		Connect		
	C-MOR	Settings		
	Ø	Start		
	Created: 11/11/2014 4:21:01 PM Clust	Checkpoint		
	Generation: 1	Move		
	Notes: None	Export		
		Rename		
	L	Delete		
	Summary Memory Networking	Help		
	< >>			

C-MOR Video Surveillance on Microsoft Hyper-V server



Following Window will appear:



C-MOR Video Surveillance on Microsoft Hyper-V server



This Screen tells you to start your C-MOR, so you have to select "Start" on the right side of the Hyper-V-Manager to start your installation.

j a	Hyper-V Manager	1	- • ×		
File Action View Help					
🗢 🔿 🙋 📰 🚺					
🚆 Hyper-V Manager	Virtual Machines		Actions PC09		
PC09					
	Name State CPU Usage	Assign	New Import Virtual Machine Hyper-V Settings Virtual Switch Manager Virtual SAN Manager Edit Disk Inspect Disk Stop Service Remove Server Remove Server Refresh		
			View >		
			? Help		
	Checkpoints		C-MOR		
			Connect		
	C-MOR		Settings		
	Created: 11/11/2014 4:21:01 PM Version: 5.0 Generation: 1 Notes: None	Clust	Start		
	Summary Memory Networking		👔 Help		
	<	>	l		

C-MOR Video Surveillance on Microsoft Hyper-V server



The virtual C-MOR will be started and you can see following screen. You have to press enter to start the installation.





After this you have the possibility to install C-MOR "Automatically" or "Interactively". Please choose "Automatically" to install a default hard drive partitioning.

If you want to install C-MOR with your own partition, you have to change now the manual. From this step you should use the documentary <u>http://www.c-mor.com/pdf/c-mor-expert-installation.pdf</u>.



You can see the progress of the installation:





Your C-MOR Virtual Machine is finished now! Press enter to finish the installation.



After this, you will see following screen. Please type "exit" and press enter.





Now C-MOR will boot and restart once for initial settings! After you see C-MORs standard configuration. Now you are able to change the network information by selecting "2".

GNU GRUB version 1.98+20100804–14+squeeze1					
Starting C-M	OR Video Surveij	llance			
Press en before b	ter to boot the ooting or 'c' fo	select which entry is highlighted. selected OS, 'e' to edit the commands or a command–line. be executed automatically in 4s.			
C-MOR Console M					
The current Net	work Settings of	this C-MOR are:			
IP Address: Gateway:	192.168.1.2 192.168.1.1	Network Mask: 255.255.255.0 DNS1: 8.8.8.8 DNS2: 172.20.1.1			
MAC Address:	00:15:5d:01:b2:	22			
1. Print Interf 2. Change IP Se 3. Reboot C-MOR 4. Shutdown C-M 5. Reset Networ 6. Set Default Menu selection:	OR k Settings and R	eboot			



You are able to insert your desired IP address. Before you can change the C-MOR installer will ask you for the administrator password. The standard password is "admin".

1. Print Interface Settings 2. Change IP Settings 3. Reboot C–MOR 4. Shutdown C–MOR 5. Reset Network Settings and Reboot 6. Set Default Language
Menu selection: 2
Enter the C-MOR admin password:
Menu 2 selected
Enter new IP address (no validation check): 172.20.1.234
Enter new netmask (use 255.0.0.0 if not sure): 255.255.255.0
Enter new gateway address (no validation check): 172.20.1.1
The Name Servers are set to: 8.8.8.8, 172.20.1.1.
Do you want to change the Name Servers? This is optionally! (y/N) y_
Enter new netmask (use 255.0.0.0 if not sure): 255.255.255.0
Enter new netmask (use 255.0.0.0 if not sure): 255.255.255.0 Enter new gateway address (no validation check): 172.20.1.1
constants being standarburg zerenserrige diver standskrive zeretanskeret tetatik deta tetat
Enter new gateway address (no validation check): 172.20.1.1
Enter new gateway address (no validation check): 172.20.1.1
Enter new gateway address (no validation check): 172.20.1.1
Enter new gateway address (no validation check): 172.20.1.1 The Name Servers are set to: 8.8.8.8, 172.20.1.1. Do you want to change the Name Servers? This is optionally! (y/N) y Enter first DNS Server



If you have insert your new network information right, you will see them on the console:



Now you can work with the web-browser, just enter your desired ip-address to open the C-MOR surface, in our case we have to insert http://172.20.1.234. Your Login is "admin" and your password is "admin". It appears a disclaimer which you have to accept to use C-MOR:

Disclaimer

1- Limitation of Liability. NOTWITHSTANDING ANYTHING ELSE IN THIS AGREEMENT OR OTHERWISE, C-MOR WILL IN NO EVENT BE LIABLE WITH RESPECT TO ANY SUBJECT MATTER UNDER ANY CONTRACT, NEGLIGENCE, STRICT LIABILITY OR OTHER LEGAL, CONTRACTUAL OR EQUITABLE THEORY FOR: (I) ANY INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, HOWEVER CAUSED AND WHETHER OR NOT ADVISED IN ADVANCE OF THE POSSIBILITY OF SUCH DAMAGES; OR (II) DAMAGES FOR LOST PROFITS OR LOST DATA; OR (III) COST OF PROCUREMENT OF SUBSTITUTE GOODS, TECHNOLOGY OR SERVICES. NOTWITHSTANDING ANYTHING IN THIS AGREEMENT TO THE CONTRARY OR THE FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITATION OF LIABILITY OR LIMITED REMEDY, C-MOR'S ENTIRE AGGREGATE LIABILITY ARISING FROM OR RELATING TO THIS AGREEMENT OR THE SUBJECT MATTER HEREOF, UNDER ANY LEGAL THEORY, WHETHER IN CONTRACT, TORT, INDEMNITY OR OTHERWISE, SHALL BE LIMITED TO THE AMOUNTS RECEIVED BY C-MOR UNDER THIS AGREEMENT WITH RESPECT TO THE PARTICULAR TRANSACTION GIVING RISE TO THE CLAIM REDUCED BY 1/24 OF THE PRICE PAID BY RESELLER FOR EACH MONTH SUCH APPLICABLE END USER HAS HAD THE PRODUCT.

2- C-MOR does not warrant that the use or operation of this product will be error free, nor does it warrant that any data stored on the product will remain accessible or uncorrupted. To protect against accidental data loss, back up your data frequently to multiple types of storage media.

Accept Disclaimer



After accepting the disclaimer you are on the start page of C-MOR:



C-MOR Video Surveillance on Microsoft Hyper-V server



The C-MOR installation is finished. Change the menu to "System Administration" and configure your cameras.

C-MOR	IP Video Surveillance V4.11 admin Disk Usage: 1%	lý.	1200		Motion Detection is on	Email Alarm is on	Script-Stream	<mark>∼ =</mark> ₩
\sim	Start Menu 🔯	Quickstart	Recordings		System Administration	System S	tatus	Logout
and you see more!	Cam 1 Cam 2 Cam 3							
Your are in the	System Administration							
System Administration Menu								
Network Configuration	License Installation							
Internet Proxy Configuration	Please install a C-MOR license to enable all functions of C-MOR and activate more than one camera!							
Alarm Emails	Please install a C-WOR license to enable all functions of C-WOR and activate more than one camera!							
Time Setting								
Time Zone	System Name	_		_		_	0	pen/close
Time Server	Network Configuration						0	pen/close
Start/Stop Recordings								
Archiving	Proxy Server Configurat	ion					0	pen/close
Automatic deletion of oldest recordings	Email Alarm						O	pen/close
Cam Configuration								
User Administration	Set Time	_		_				pen/close
User Camera Settings	Configuration of the Tim	e Zone		_			Ot	pen/close
FTP Server Configuration	Time Server						0	pen/close
System Language								
Video Size Start Screen	Start/Stop Recordings						01	pen/close
Remote Access Configuration							_	
C-MOR Stacking	Storage Time of Recordi	ngs					[ot	pen/close
System Restart	Automatic Deletion of ol	dest Recordin	gs				0	pen/close
System Shutdown							_	
C-MOR Software Update	Camera Configuration			-			0	pen/close
License Upgrade	Change Configuration Camera	a 1						
Backups	Change Configuration Camera							
	Change Configuration Camera	33						

More Information for the configuration of C-MOR you can find on **"User Manual for C-MOR IP V4 Video Surveillance"**.

The Note "License Installation" just appears at the free version of C-MOR. If you have a licensed version yet, this note will not appear anymore.