

### Setup of monitoring of free space

The very setup is done through C-Monitor console by adding a Watch, for simplicity directly through the Wizard. Launch Watch Wizard, name the new watch e.g. "Free space on drives", and press Next.

C Watch Wizard			23
Create watch with wizard			
•			
Name of watch			
Vořné miesto na diskoch			
Tip Choose meaningful, descriptive name of watch, because this name will be used for suggesting notification messages texts			
Proper watch name is e.g. "Free disk space on SERVER1"			
< Back Next >	[	Can	cel

### Image: Spustenie Watch Wizarda

In section Health of system select the item "Free space on disk", and press Next.

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	Watch Wizard	
<b>C</b>	watch wizard	
	Frateri Frizaro	

JSTOMER MONITOR

nonitoring and management tool

erformance	Health of systems	Security
<ul> <li>Memory usage</li> <li>CPU usage</li> <li>Disk usage</li> <li>Disk read / write queue length</li> <li>Network adapter usage</li> <li>Process usage (memory, CPU)</li> <li>Performance counters</li> <li>Transfered speed in LAN, Harddrives</li> <li>Transfered speed of FTP</li> <li>Internet IP trafic (transfer speed)</li> <li>Internet IP transfered data</li> <li>Preddefined performance templates</li> </ul> Check accessibility <ul> <li>Ping</li> <li>SMTP</li> <li>POP3</li> <li>HTTP, HTTPS</li> <li>Exists file</li> <li>Exists directory</li> <li>Accessible directory</li> <li>Current IP</li> <li>Network presented (active any network adapter)</li> </ul>	<ul> <li>EventLog Events Count [for Windows Vista and newer]</li> <li>Free space on disk</li> <li>Service status</li> <li>Loaded Device Driver</li> <li>Running process</li> <li>E-Mail looping test (SMTP -&gt; POP3)</li> <li>Ping RTT (response time)</li> <li>Ping packet loss</li> <li>File size</li> <li>File size in directory</li> <li>Windows running time</li> <li>Hardware Monitoring</li> <li>HW monitoring of server (HP, DELL, FUJITSU)</li> <li>LINUX monitoring</li> <li>Environment Monitoring (smp)</li> <li>Preddefined health templates</li> </ul>	<ul> <li>Running user process</li> <li>Unauthorized admin process</li> <li>LoggedOn user</li> <li>Time limitations</li> <li>Date</li> <li>Day of Week</li> <li>Time</li> <li>Time Range</li> </ul> Custom conditions <ul> <li>SNMP</li> <li>CHAT</li> <li>CHAT Variable</li> <li>CHAT Numeric Variable</li> <li>CHAT Vector Variable</li> <li>CHAT Vector Variable</li> <li>Watch state</li> </ul>

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Image: Zvolenie watchu

In the next window, click on the Disk icon, and a window with a list of available disks will pop up. Double click to select the disk that you want to monitor, or select it and press OK. If you need to add more disks into one watch, these can be added in the next steps

### Free space (online through Watches)

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Watch Wizard						
Free space on dis	k					
Drive Operator Free	Space	Unit %	•			
Value from this condition send to C	M server					
If value changes more than	%					
Always						
© Never						
() HOVE						
Assess the state of watch	[					~ 1
	Select Dis				0101	
	Disk	Label	Free / Total	Free Space On Disk"		
	C:	Laber	38.61 GB / 74.96 GB	52%		
	D:	Data	46.92 GB / 74.08 GB	63% Find Next	ОКСа	, ncel
< Back Next >						Cancel

Image: Vybratie jednotky kotú chceme monitorovať

Now set parameters, by which will the state be monitored: operator (> or <), the very value (Free space), and also Unit, for which you can choose from %, kB, MB, GB.

You must also set the value, at which change of the state of free space is sent to the CM Server - "If value change more than". As the server should not be unnecessarily loaded, choose a reasonable (higher) number, but such, that the view on CM portal shows relevant changes of the monitored parameter.

Example: you want to set notification when the free space gets below 10GB, the value for change may be set to 1GB. In this case, each change of the free space status, which is over 1GB, is sent to the CM Server.



Free Space On Disk

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### Free Space On Disk

### Operator Free Space Unit Unit Drive Drive Operator Free Space ▼ 10 GB C: GB C: > - 10 -Value from this condition send to CM server Value from this condition send to CM server If value changes more than 1 GB If value changes more than 1 GB Always Always Never Never Assess the state of watch If result of this condition is False status of watch will be Unknown

Image: Posúdenie stavu watchu

In the next step you can set judgement of the watch's state (Assess the state of watch). If ticked, you can set evaluation of the watch into state Unknown even if the value is True, False or Unknown.

### **Common settings for all Watches**

The next displayed window contains settings that are common for setup of every watch, so you'll see these options pretty often.

Ca Watch Wizard	
Conditions for "Voľné miesto na diskoch"	
1 Free Space On Disk "C:" > 10GB Check on each watch state evaluation Value will be sent to CM Server only if change to last sent value is more than 1	
Add Condition Edit Condition Delete Condition	
State of watch is OK if all conditions are true   FAIL - if at least one condition is false	
☑ Delay for FAIL state. Conditions for FAIL state must be met at least	
Show Advanced Options	
Note: Watches are active from 5 min after the operating system start	
< Back Next > Skip Actions >>	Cancel

Image: spoločné nastavenie pre Watche

First of all, there's an option to add another condition, in our case, if you have more drives that you want to monitor, add a separate condition for each one. Changes in already existing conditions are performed through Edit condition, and you may also Delete conditions.

In this window you configure at what state of conditions is the Watch OK, or FAIL. This is set in the box next to the text "State of watch is OK". Set this value according to your requirements.

By ticking the field Delay for FALSE state, you can set a delay of submission of the state's change. If you know that the watch will sometimes be in the FAIL state for a short time, use this option to prevent vast and useless amount of notifications.

After clicking on Show Advanced options, two more settings will appear. The first one is, that the action is carried out even if the watch's state is Unknown The second one is evaluation of the watch's state in a longer period than 30 seconds

State of watch is OK if all conditions are true   FAIL - if at least one condition is false
☑ Delay for FAIL state. Conditions for FAIL state must be met at least 0 € Sec ▼
Hide Advanced Options
If state of the watch is UNKNOWN, notify this by options in actions
Evaluate watch state with longer period than 30s (specified by C-Monitor license)
<b>Note:</b> Watches are active from 5 min after the operating system start
< Back Next > Skip Actions >>

Image: Rozšírené možnosti

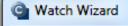
### Setup of Actions

If you click on Skip Actions, the setup of actions will be skipped and stays in the default state. You'll see a summarizing window with settings and after pressing Finish, the watch is successfully configured.

By pressing Next, you'll set the actions that are executed after change of the watch's state. There are three types of actions: Start, Repeat and End.

### **Start Actions**

The action always has to be enabled



## Set a Start action for "Voľné miesto na diskoch"

📃 If state of the watch changes to FAIL, perform START action - execute task, display, log, send notifications...



Image: Zapnutie akcie

After it's enabled, various notification options will become available. You can enter a custom text, which will also be stated in the notification email or SMS message, into the field Description of FAIL state. You can then configure delay of the action's execution when the watch is switched to FAIL.

# Set a Start action for "Voľné miesto na diskoch"

escription of FAIL state e málo voľného miesta na diskoch	1			65
Enabled				
state of the watch changes to <b>FA</b>	IL and is FAIL mo	ore than 🛛 🚔 🛛	Sec 🔻 do:	
Execute Command Line	-			
Display Message to User				
Add Message to Log File				
Add Message to EventLog				
Send SMS (via CM server, must	be supported by C	`Miserver)		

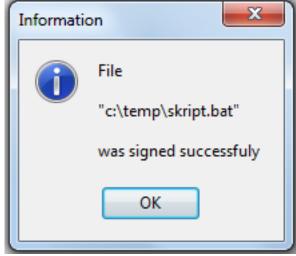
Image: Možnosti oznamovaní

More actions may be selected at once. In the first option, you can have an already created script, e.g. a .bat file, a trigger, or a service check executed. After selecting Execute Command line, find an existing file on the drive, and then have it signed/verified (the key icon).

Execute Command Line	overenie súboru	
c:\temp\skript.bat		
<ul> <li>Display Message to User</li> <li>Add Message to Log File</li> <li>Add Message to EventLog</li> <li>Send SMS (via CM server, must be supported by CM server)</li> <li>Send E-Mail to custom E-Mail Addresses</li> </ul>	Warning Global signature verification fail for file "c:\temp\skript.bat" Reason: Signature not exists Do you want globally sign this file now? Yes No	?

Image: Vloženie skriptu a jeho overenie

The verification must be successful, otherwise CM wouldn't allow execution of the script.



After selecting Activate trigger, enter name of the trigger into the blank field

✓ Activate Trigger	
vytvorený_trigger	
Display Message to User	

Image: Nastavenie mena triggeru

After selecting Control service, you'll have a command executed for a service, start, restart or stop. Click on the icon for list of services on the right, search and select the required service and press OK. Then choose the required operation for the service.

Control Servic	æ 🔻	výber	Control Service
Start 💌	atapi	služieb	Start valapi
Display Message	-	_ = <b>_ x</b>	Statt Restart ge to User volba akcie Stop to Log Fie služby
Add Message to		ch should be controlled	Add Message to EventLog
Send SMS (via 0	Name	Display Name	Send SMS (via CM server, must be supported by CM server)
Send E-Mail to c	aspnet_state	ASP.NET State Service	Send E-Mail to custom E-Mail Addresses
	AsyncMac	RAS Asynchronous Media Driver	
	atapi	IDE Channel	
	atikmdag	atikmdag 🕞	
	Save Copy	Find Find Next OK Cancel	

Image: Nastavenie kontroly služby

Other notification options are :

- display message (window/balloon) to the user on desktop
- add a record to Log file
- add a record to Event Log on PC
- send SMS
- send email message

# Set a Start action for "Voľné miesto na diskoch"

📝 If state of the watch changes to FAIL, perform START action - execute task, display, log, send notifications... Use Balloons Display Message to User Voľné miesto na diskoch - Je málo voľného miesta na diskoch Add Message to Log File C:\temp\LOG.txt Ē File Name: Voľné miesto na diskoch - Je málo voľného miesta na diskoch Message: Add Message to EventLog Voľné miesto na diskoch - Je málo voľného miesta na diskoch Send SMS (via CM server, must be supported by CM server) Voľné miesto na diskoch - Je málo voľného miesta na diskoch - \$computer\$ \$company\$ Send SMS To SMS recipients are not specified!

Image: Možnosti oznámení

For sending of SMS, it's necessary to choose recipients, whom the message will be sent to, by clicking on "Send SMS to"

Email is standardly sent according to operators' settings in CM, eventually the receiver's address can be adjusted, or changed. After setup of these custom notifications, press Next.

### **Repeat Action**

You'll see a window for setup of repeat actions. The options are almost identical, the difference is in the option to set repetition time and interval, till which are the repeated notifications going to be sent.

## Set a Repeat action for "Voľné miesto na diskoch"

$\overline{\mathbb{V}}$ While state of the watch is FAIL, perform REPEAT action - execute task, display, log, s	end notifications
Description of still FAIL state	
Repeat 1	<b>45</b>
📝 Enabled	
While state of the watch is FAIL, repeat each 15 🚔 Min 💌	
✓ Interval prolonging x2, up to 24	
Execute Command Line	

Image: Nastavenie akcie Repeat



After setting the repeat actions, and pressing Next, setup End action. The options are the same as for the Start action.

# Set an End action for "Voľné miesto na diskoch"

Veľkosť voľného miesta je OK	<b>[1</b> ]
V Enabled	
f state of the watch changes to OK and is OK more than 🛛 🚔 Sec 💌 do:	
Control Service	
Display Message to User	
Add Message to Log File	
Add Message to EventLog	
Send SMS (via CM server, must be supported by CM server)	
Send E-Mail to custom E-Mail Addresses	

Image: Nastavenie akcie Repeat

Afterwards, just press Next and you'll see a summary of all settings.



G Watch Wizard	
Summary of "Voľné miesto na diskoch"	
Name: Voľné miesto na diskoch Short Name: W1	
Conditions OK if all conditions are true > Free Space On Disk "C:" > 10GB; W.S.Unknown if FALSE; Value to CM : min. change 1	
Note: W.S.Unknown = Watch State Unknown	
Watch will be evaluated on each C-Monitor Tick	
State       OK       - If all conditions are true         FAIL       - If at least one condition is false         Start Action 1 - Je málo voľného miesta na diskoch       - If at least one condition is false more than 1 Min         Display Message to User       Voľné miesto na diskoch - Je málo voľného miesta na diskoch         Repeat Action 1 - Repeat 1       - While at least one condition is false, repeat with period 15 Min (x2 to 24 Hour)         Display Message to User       Voľné miesto na diskoch - Repeat 1         End Action 1 - Veľkosť voľného miesta je OK       - If all conditions are true         Display Balloon Message to User       - If all conditions are true         Voľné miesto na diskoch - End 1       Notification of UNKNOWN state is DISABLED	
< Back Next > Finis	h Cancel

Image: Sumarizácia nastavení

By clicking on Finish, the watch's setup is completed. If you've chosen the watch as Enabled, then you can view its state directly in the C-Monitor console on the PC, in the top left menu watches state

C-Manitar Tools Help	Watches State					
© Settings	🚮 🖍 👳					
Scheduler	Name / Short Name	Value	State Evaluated	Last State Change	State Description	
Watches	Vořné miesto na diskoch W1	Free Space C \ = 37.93 GB	26. 3. 2012 11:44:49	26. 3. 2012 11:44:19	OK - because all conditions are true TRUE - Free Space on "C:\" (37.93 GB)> 10 GB	
C-Monitor Runtime Information's						
Waiting Tasks	-					
Running Taoko						
Watches State						
Watches Durient Log						
E-Monitor Eurent Log						

Image: Kontrola Watchu cez scheduler

or also through CM portal in the section Presentation and evaluation, in the left menu Watches (online monitoring)

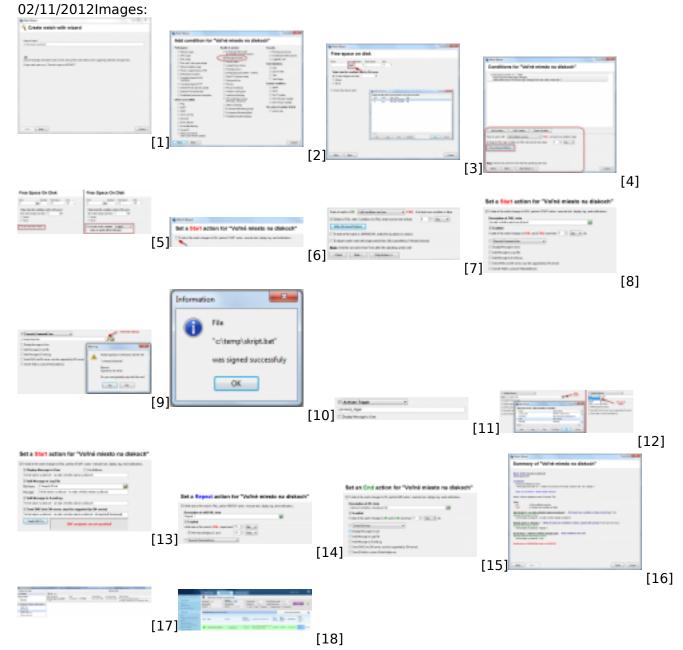


### Free space (online through Watches)

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		hliadanie a hodnotenie Custor	mer Desk		Operátor: Pa	not C
Zastr vieto Rozseli vieto Upozornenia Poruchy História porúch Poruchy na počitačoch	Spoločnosť seal Meno Watchu Operátor	e monitoring) Počitač š Umiestnenie Current status Zobraziť Pod sebou	Zoradiť ako Vzostupne • Zoradi	r Watches ako	Tarrange to 1	lfadef 🛛 💌
Zobrazenia	Zoznam watches [zobrazená 1	położka ]			Report z porúch Wa	tches
Zóny <u>Watches (Online moniforing)</u> Počítače Online informácie	Stav Meno	Hodnota	Posledná zmena slavu Podmienky k určeniu stavu	nolitala	Meno počítača Umiestnenie v sieti	Posl. online spojenie s CM
Internet bandwidth monitor Zmeny na počítači	Voľné miesto na diskoc	Free Space C3	26. Mar 2012 11:44:16 ○K - because all conditions are tru ● TRUE - Free Space on °C*('(27:93:08) × 10:08	e SEANB02	HP6930P prenosny BA	26. Mar 2012 Editory 11:47.07

### Image: Kontrola Watchu cez web CM Date:



### Links

[1] https://customermonitor.co/sites/default/files/1.png

[2] https://customermonitor.co/sites/default/files/2.png



[3] https://customermonitor.co/sites/default/files/3.png [4] https://customermonitor.co/sites/default/files/6.png [5] https://customermonitor.co/sites/default/files/5.png [6] https://customermonitor.co/sites/default/files/8.png [7] https://customermonitor.co/sites/default/files/7.png [8] https://customermonitor.co/sites/default/files/9.png [9] https://customermonitor.co/sites/default/files/10.png [10] https://customermonitor.co/sites/default/files/11.png [11] https://customermonitor.co/sites/default/files/12.png [12] https://customermonitor.co/sites/default/files/13.png [13] https://customermonitor.co/sites/default/files/14.png [14] https://customermonitor.co/sites/default/files/16.png [15] https://customermonitor.co/sites/default/files/17.png [16] https://customermonitor.co/sites/default/files/18.png [17] https://customermonitor.co/sites/default/files/19.png [18] https://customermonitor.co/sites/default/files/20\_0.png