

## 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.

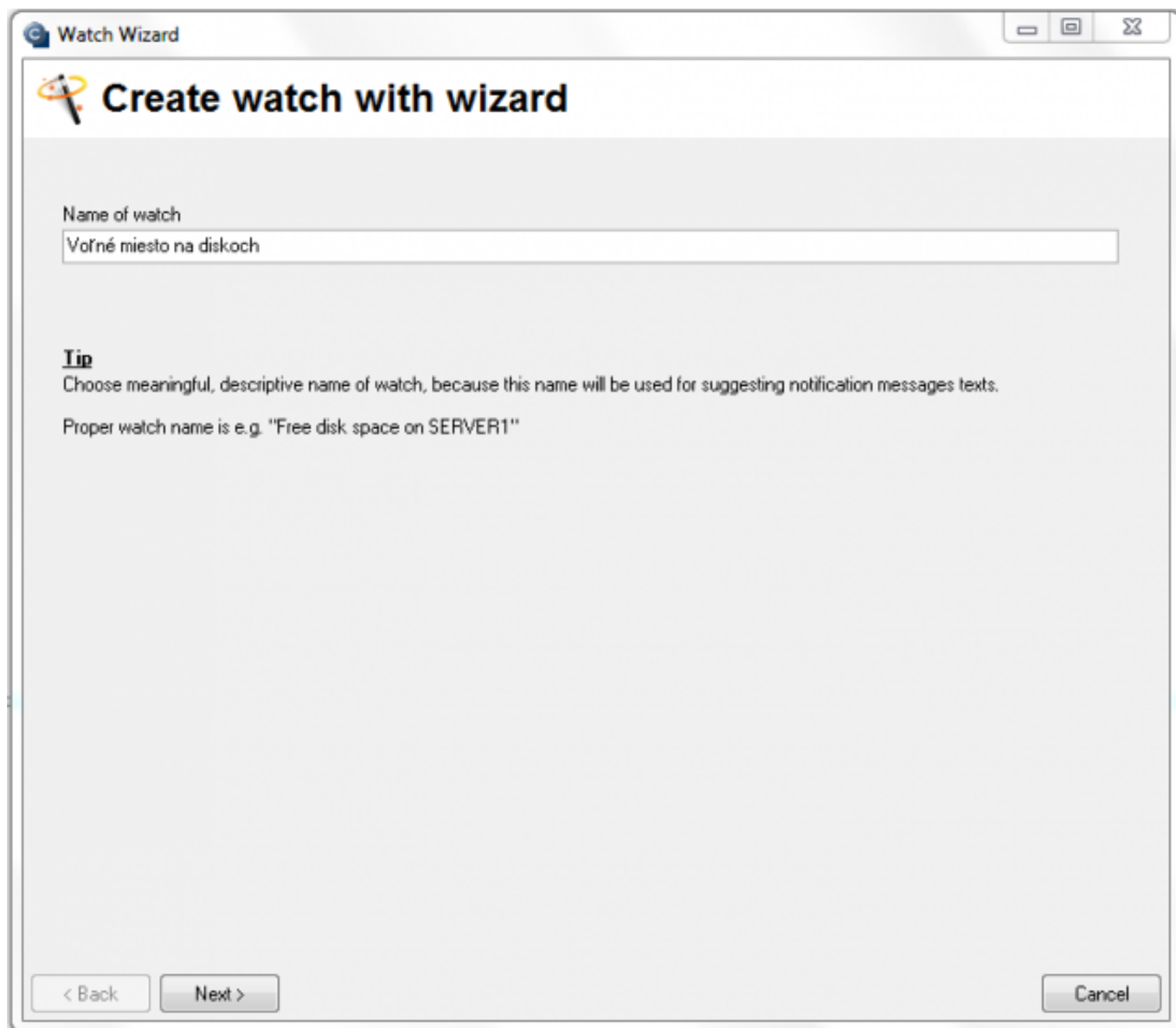


Image: Spustenie Watch Wizarda

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

**Watch Wizard**

## Add condition for "Voľné miesto na diskoch"

**Performance**

- ☐ Memory usage
- ☐ CPU usage
- ☐ Disk usage
- ☐ Disk read / write queue length
- ☐ Network adapter usage
- ☐ Process usage (memory, CPU)
- ☐ Performance counters
- ☐ Transferred speed in LAN, Harddrives
- ☐ Transferred speed of FTP
- ☐ Internet IP trafic (transfer speed)
- ☐ Internet IP transferred data
- ☒ Preddefined performance templates

**Check accessibility**

- ☐ Ping
- ☐ SMTP
- ☐ POP3
- ☐ HTTP, HTTPS
- ☐ Exists file
- ☐ Exists directory
- ☐ Accessible directory
- ☐ Current IP
- ☐ Network presented (active any network adapter)

**Health of systems**

- ☐ EventLog Events Count (for Windows Vista and newer)
- ☒ Free space on disk
- ☐ Service status
- ☐ Loaded Device Driver
- ☐ Running process
- ☐ E-Mail looping test (SMTP -> POP3)
- ☐ Ping RTT (response time)
- ☐ Ping packet loss
- ☐ File size
- ☐ File size in directory
- ☐ Windows running time
- ☐ Hardware Monitoring
- ☐ HW monitoring of server (HP, DELL, FUJITSU)
- ☐ LINUX monitoring
- ☐ Environment Monitoring (snmp)
- ☐ Environment Monitoring (http)
- ☐ Preddefined health templates

**Security**

- ☐ Running user process
- ☐ Unauthorized admin process
- ☐ LoggedOn user

**Time limitations**

- ☐ Date
- ☐ Day of Week
- ☐ Time
- ☐ Time Range

**Custom conditions**

- ☐ SNMP
- ☐ CHAT
- ☐ CHAT Variable
- ☐ CHAT Numeric Variable
- ☐ CHAT Vector Variable

**Use state of another Watch**

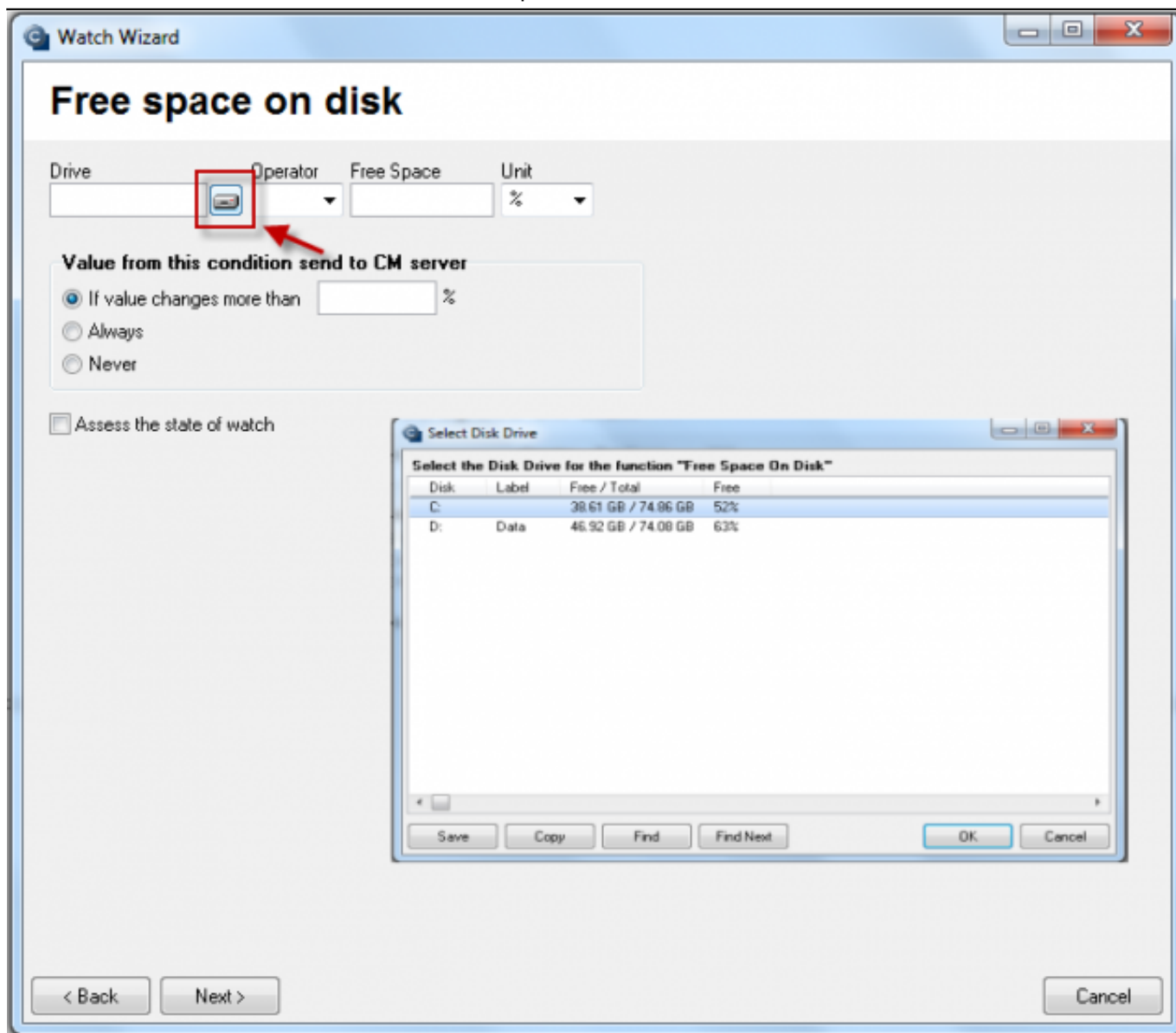
- ☐ Watch state

< Back    Next >    Cancel

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 on disk**

Drive:  Operator:  Free Space:  Unit:

**Value from this condition send to CM server**

☒ If value changes more than  %

☐ Always

☐ Never

☐ Assess the state of watch

**Select Disk Drive**

Select the Disk Drive for the function "Free Space On Disk"

Disk	Label	Free / Total	Free
C:		38.61 GB / 74.86 GB	52%
D:	Data	46.92 GB / 74.08 GB	63%

Buttons: < Back, Next >, Cancel, OK, Cancel, Find, Find Next, Copy, Save

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

Drive	Operator	Free Space	Unit
C:	>	10	GB

**Value from this condition send to CM server**

☒ If value changes more than 1 GB

☐ Always

☐ Never

☐ Assess the state of watch

### Free Space On Disk

Drive	Operator	Free Space	Unit
C:	>	10	GB

**Value from this condition send to CM server**

☒ If value changes more than 1 GB

☐ Always

☐ Never

☒ 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.

**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 0 Sec

Show Advanced Options

**Note:** Watches are active from 5 min after the operating system start

< Back Next > Skip Actions >>

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

The screenshot shows a configuration window for a watch. At the top, it says "State of watch is **OK**" followed by a dropdown menu set to "if all conditions are true". To the right, it says "FAIL - if at least one condition is false". Below this, there is a checkbox labeled "Delay for FAIL state. Conditions for FAIL state must be met at least" which is checked. Next to it is a numeric input field set to "0" and a unit dropdown set to "Sec". Below these is a blue button labeled "Hide Advanced Options". Underneath the button are two more checkboxes: "If state of the watch is UNKNOWN, notify this by options in actions" and "Evaluate watch state with longer period than 30s (specified by C-Monitor license)", both of which are unchecked. At the bottom, there is a "Note" stating "Watches are active from 5 min after the operating system start". At the very bottom are three buttons: "< Back", "Next >", and "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

The screenshot shows a window titled "Watch Wizard". The main heading is "Set a **Start** action for 'Voľné miesto na diskoch'". Below this, there is a checkbox labeled "If state of the watch changes to FAIL, perform START action - execute task, display, log, send notifications...". A red arrow points to this checkbox, which is currently unchecked.


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"


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

**Description of FAIL state**

Je málo voľného miesta na diskoch 

☒ **Enabled**

If state of the watch changes to **FAIL** and is **FAIL** more than     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 CM server)

☐ Send E-Mail to custom E-Mail Addresses

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** 

c:\temp\skript.bat   **overenie súboru**


☐ 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

**Warning** 

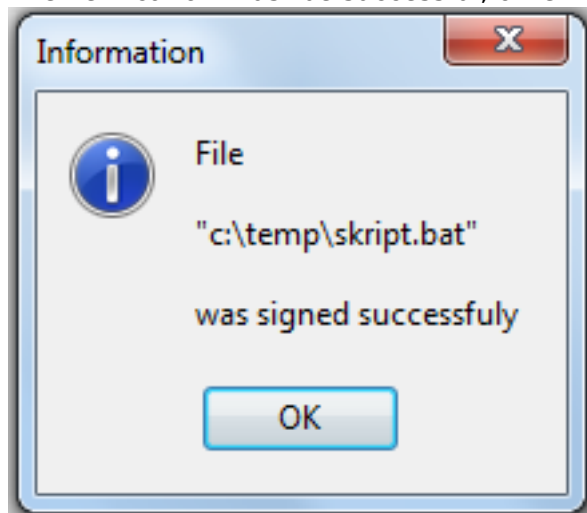
 Global signature verification fail for file  
"c:\temp\skript.bat"

Reason:  
Signature not exists

Do you want globally sign this file now?

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

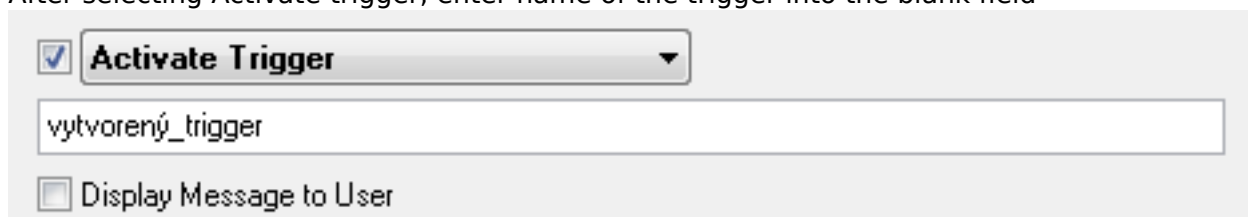


Image: Nastavenie mena triggeru

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.

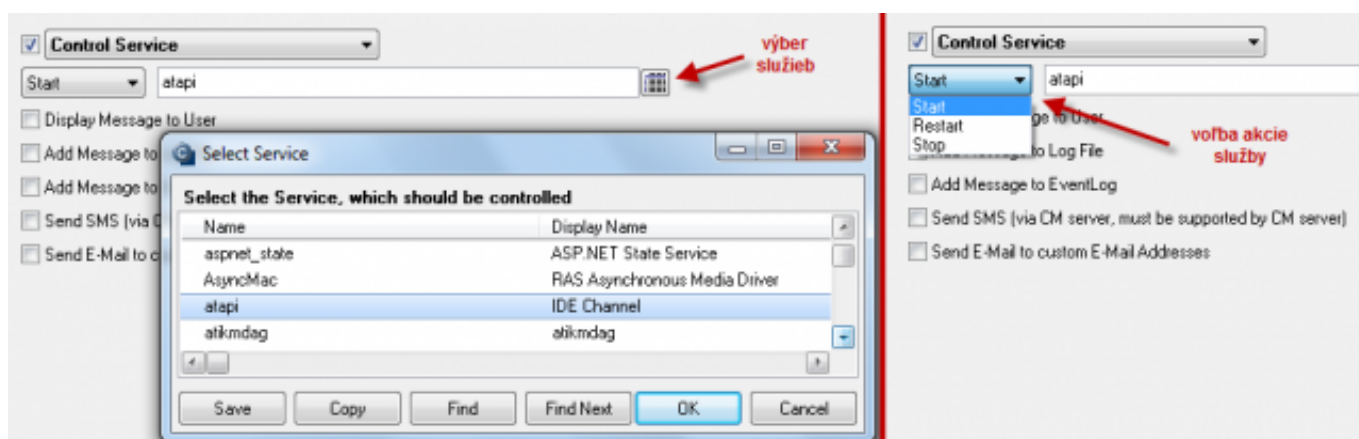


Image: Nastavenie kontroly služby

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...

☒ **Display Message to User** ☐ Use Balloons

Voľné miesto na diskoch - Je málo voľného miesta na diskoch

☒ **Add Message to Log File**

File Name: C:\temp\LOG.txt 

Message: Voľné miesto na diskoch - Je málo voľného miesta na diskoch

☒ **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\$

**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"

☒ While state of the watch is FAIL, perform REPEAT action - execute task, display, log, send notifications...

**Description of still FAIL state**

Repeat 1 

☒ **Enabled**

While state of the watch is **FAIL**, repeat each 15   Min

☒ Interval prolonging x2, up to 24   Hour

☐ Execute Command Line

Image: Nastavenie akcie Repeat

### End Action



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"

☒ If state of the watch changes to OK, perform END action - execute task, display, log, send notifications...

### Description of OK state

Veľkosť voľného miesta je OK



☒ **Enabled**

If state of the watch changes to **OK** and is **OK** more than    Sec

☐

☒ 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.



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

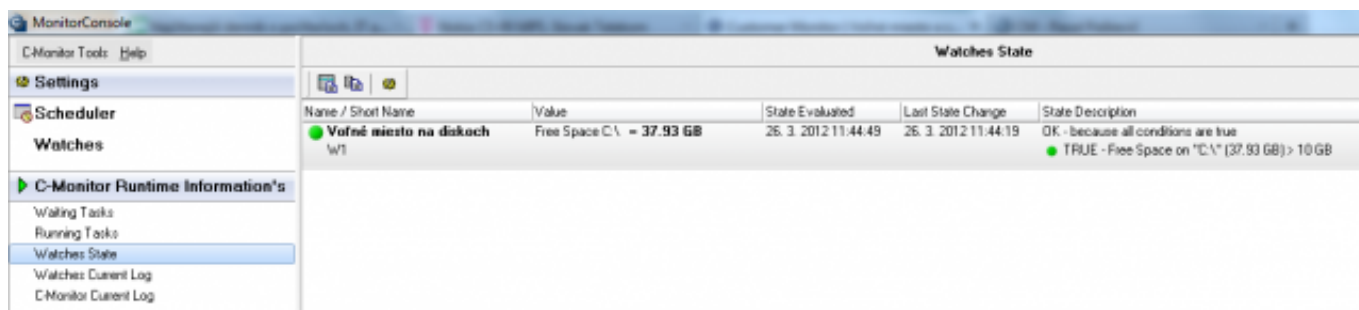


Image: Kontrola Watchu cez scheduler

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

Image: Kontrola Watchu cez web CM

Date:

02/11/2012

Images:



[1]



[2]



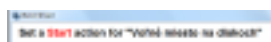
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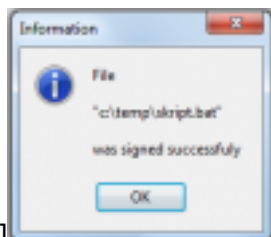
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## Links

[1] <https://www.customermonitor.eu/sites/default/files/1.png>

[2] <https://www.customermonitor.eu/sites/default/files/2.png>

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- [3] <https://www.customermonitor.eu/sites/default/files/3.png>
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