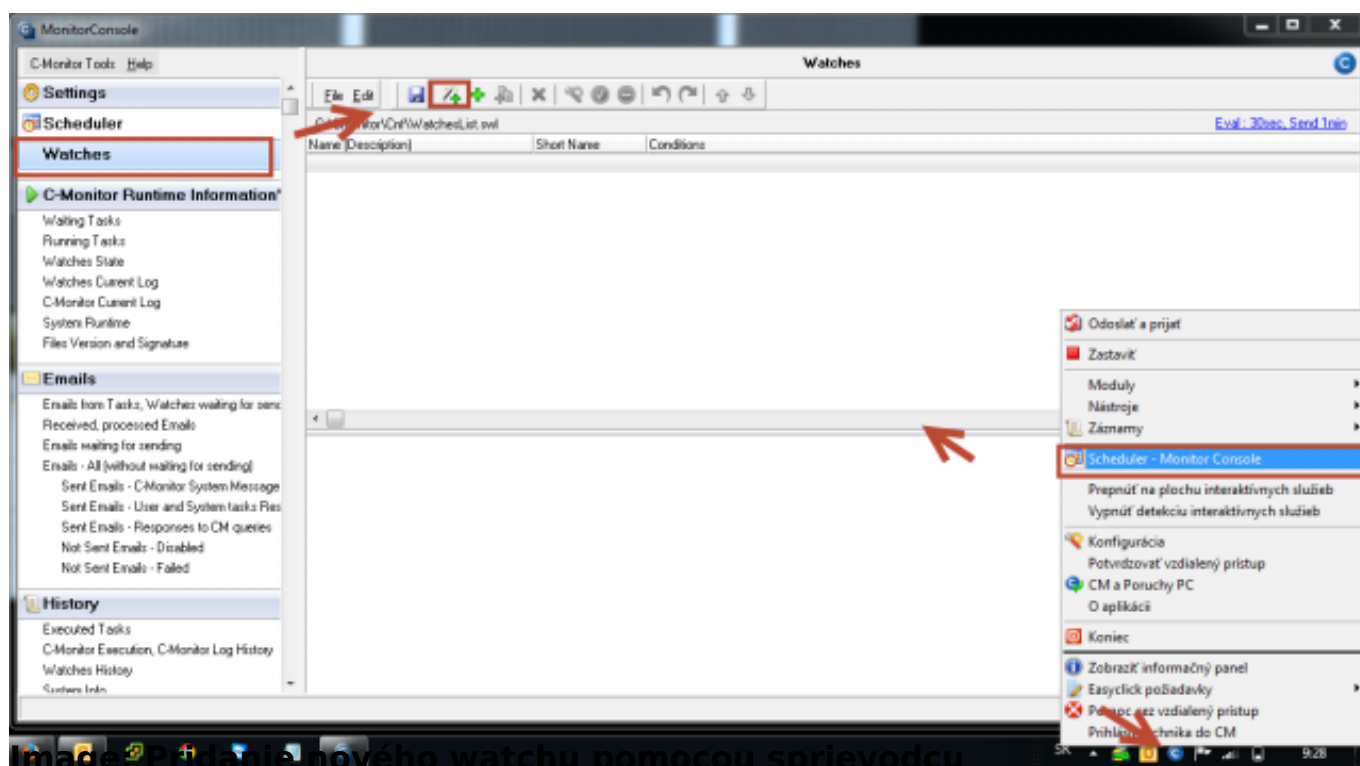


[Eaton/MGE UPS](#)

[UPS APC](#)

Customer Monitor provides an option to monitor and evaluate important parameters of backup sources, such as presence of input voltage, battery capacities/remaining time for running on the UPS device and other additional information. If an error occurs, you're instantly notified that your UPS is not in its optimal state. Therefore, thanks to this easily configured monitoring, you're always informed about a power outage on time, you're also able to secure change of flat batteries in the prophylaxis, preventing all unnecessary device dropouts .

Monitoring of UPS devices is configured through the wizard for creation of Watches.



Select type of the device, which you want to monitor, from the predefined templates.

The screenshot shows the 'Watch Wizard' window with the title 'Add condition for "UPS Status"'. The window is divided into three main columns: Performance, Health of systems, and Security. Each column contains a list of conditions with radio buttons for selection. The 'Health of systems' column has a dropdown menu open, showing a list of predefined health templates. At the bottom, there are 'Back', 'Next', and 'Cancel' buttons.

Performance

- ☐ Memory usage
- ☐ CPU usage
- ☐ Disk activity
- ☐ 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 traffic (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
- ☐ Files size in directory
- ☐ Files count in directory
- ☐ Start / Restart OS
- ☐ 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
- ☐ User Inactivity Time

Custom conditions

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

Use state of another Watch

- ☐ Watch state

Predefined health templates (dropdown list):

- APC UPS Low energy v1.0 (SNMP from
- APC UPS Status v1.0 (SNMP from Powe
- EATON/MGE UPS Status over NetworkC
- MS SQL - Access test v1.0
- qnap disk
- QNAP Health v 1.5
- SYNOLOGY Health v 1.2
- vmware ESX health plugin 1.1
- WIN Server Roles - Event Errors in last 24

Image: Nastavenie monitoringu UPS pomocou sprievodcu

[Eaton/MGE UPS](#)

When monitoring EATON/MGE UPS devices, all data are read directly from network card on the UPS (using a CHAT script through SNMP) and on the very computer. There's no need for any other settings, where the Watch is.

You only need to set IP address of the network card, and you should already be able to view the required data.

Watch Wizard

EATON/MGE UPS Status over NetworkCard

Script Name
EATON/MGE UPS Status over NetworkCard

Script

Parameter	Value
IP address	IP address of UPS
SNMP Community	public
SNMP Timeout [ms]	10000
SNMP Retries	6

Test, Edit Script

Operation: Successful Test Period: 1 Unit: min

Value from this condition send to CM server

☒ Always
☐ Never

☐ Assess the state of watch

< Back Next > Cancel

Image: Nastavenie IP adresy, ktorú používa UPS

You can view the current state of a Watch anytime after login to CM portal. Watches can be found in the section *Presentation and Evaluation -> Presentation -> Watches (Online monitoring)*. In this section, you can adjust individual evaluated parameters as well. The following image illustrates a Watch for evaluation of an EATON/MGE type of UPS.

Watches (Online monitoring)

Spoločnosť: Počítač & Umiestnenie: Zoradiť podľa: CM-ID Zoradiť Watches podľa: Recvhu
Meno Watchu: Eaton Current status: Zoradiť ako: Vzostupne Zoradiť Watches ako: Vzostupne Hľadať
Operátor: Zobrazíť: Pod sebou ☒ True ☒ False ☒ Unknown ☐ Vypnuté watche ☐ Len online PC

Zoznam watches [zobrazená 1 položka] Report z porúch Watches

Stav	Meno	Hodnota	Posledná zmena stavu	Podmienky k určeniu stavu	CM-ID počítača	Meno počítača y sieť	Umiestnenie	Posl. online spojenie s CM
	UPS EATON1MGE	CHAT UPS Connect successful Voltage 235 V Remaining 41.70 min Load 13 % Capacity 100 % On Battery ? 2 On Bypass ? 2	4. Apr 2014 19:59:47	OK - because all conditions are true ● TRUE - successful CHAT "UPS Connect" (8.4.2014 17:46:34) ● TRUE - CHAT NumVar: "Voltage": Voltage (235 V) in 215..250 V ● TRUE - CHAT NumVar: "Remaining": Remaining (41.70 min) > 10 min ● TRUE - CHAT NumVar: "Load": Load (13 %) < 70 % ● TRUE - CHAT NumVar: "Capacity": Capacity (100 %) > 80 % ● TRUE - CHAT NumVar: "OnBattery": On Battery ? (2) = 2 ● TRUE - CHAT NumVar: "Onbypass": On Bypass ? (2) = 2 Delay for FAILED state is 2m	KKBSV01	SERVER-ML390	serverovna	8. Apr 2014 17:54:10 Edit

Image: Eaton watch na CM portáli

UPS APC

For monitoring of UPS of the brand APC, you need to have Powerchute Business installed (tested with version 9), and you also need to have SNMP service enabled, with reading through Public community, for successful data reading.

The screenshot shows the 'Watch Wizard' window with the title 'Conditions for "UPS status"'. It contains a list of seven conditions for monitoring a UPS. Each condition specifies the SNMP OID, the parameter being monitored, the comparison operator, the threshold, the timeout, the check frequency, and the action to be taken. Below the list are buttons for 'Add Condition', 'Edit Condition', and 'Delete Condition'. The 'State of watch is' section shows 'OK' (if all conditions are true) and 'FAIL' (if at least one condition is false). There is a checkbox for 'Delay for FAIL state' and a dropdown for 'UNKNOWN watch state'. A 'Show Advanced Options' button is also present. A note at the bottom states: 'Note: Watches are active from 5 min after the operating system start'. At the bottom right are buttons for '< Back', 'Next >', 'Skip Actions >>', and 'Cancel'.

Condition ID	Condition Description
1	SNMP localhost : UPS Output Load (%) < 80, 2x, timeout 2s Check every 1min Value will be sent to CM Server only if change to last sent value is more than 10
2	SNMP localhost : UPS Output Voltage (VAC) IN 220..240, 2x, timeout 2s Check every 1min Value will be sent to CM Server only if change to last sent value is more than 5
3	SNMP localhost : UPS Output Frequency (Hz) IN 48..52, 2x, timeout 2s Check every 1min Each value will be sent to CM Server
4	SNMP localhost : UPS Input Voltage (VAC) IN 220..240, 2x, timeout 2s Check every 1min Value will be sent to CM Server only if change to last sent value is more than 5
5	SNMP localhost : UPS Input Frequency (Hz) IN 48..52, 2x, timeout 2s Check every 1min Each value will be sent to CM Server
6	SNMP localhost : UPS Current Temperature < 50, 2x, timeout 2s Check every 1min Value will be sent to CM Server only if change to last sent value is more than 10
7	SNMP localhost : UPS Battery Status (2-Minute) = 2, 2x, timeout 2s

State of watch is **OK** if all conditions are true **FAIL** - if at least one condition is false

☐ Delay for FAIL state. (Useful for suppressing short term FAIL state)

UNKNOWN watch state is referred as FAIL state.

Show Advanced Options

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

< Back Next > Skip Actions >> Cancel

Image: Zoznam parametrov, ktoré sa budú vyhodnocovať

You can view the current state of a Watch anytime after login to CM portal. Watches can be found in the section *Presentation and Evaluation -> Presentation -> Watches (Online monitoring)*. In this section, you can adjust individual evaluated parameters as well. The following image illustrates a Watch for evaluation of an APC type of UPS.

Admin zóna | Prehliadanie a Vyhodnotenie | Customer Desk | Úvodný prehľad | € Kredit | ? Manual | Odhlásiť

Operátor: Miro

Watches (Online monitoring)

Spoločnosť: Počítač & Umiestnenie: Zoradiť podľa: CM-ID Zoradiť Watches podľa: Rozvrhu

Meno Watchu: APC Current status: Zoradiť ako: Vzorovne Zoradiť Watches ako: Vzorovne Hľadať

Operátor: Zobrazíť: Pod sebou ☒ True ☒ False ☒ Unknown ☐ Vypnuté watche ☐ Len online PC

Zoznam watches [zobrazené 2 položky] Report z porúch Watches

Slav	Meno	Hodnota	Posledná zmena stavu	Podmienky k určeniu stavu	CM-ID počítača	Meno počítača v sieti	Umiestnenie	Posl. online spojenie s CM	
	APC battery	UPS Battery Capacity (%) 100±1 UPS Battery Runtime Remaining 0.03:17:00	14. Mar 2014 03:20:19	OK - because all conditions are true ● TRUE - SNMP : 172.16.33.35 : UPS Battery Capacity (%) ("100") > 80 (4/8/2014 5:11:58 PM) ● TRUE - SNMP : 172.16.33.35 : UPS Battery Runtime Remaining ("0.03:17:00") > 0.00:10:00 (4/8/2014 5:11:58 PM)	K005V02	SERVER2	Wolf CR	8. Apr 2014 17:50:40	
	APC status	UPS Output Load (%) 6±10 UPS Output Voltage (VAC) 229±5 UPS Output Frequency (Hz) 49 UPS Input Voltage (VAC) 229±5 UPS Input Frequency (Hz) 50 UPS Current Temperature 23±10 UPS Battery Status (2=Normal) 2 UPS Battery Selftest Result (1=Pass, 2=Fail) 1	5. Apr 2014 22:57:04	OK - because all conditions are true ● TRUE - SNMP : 172.16.33.35 : UPS Output Load (%) ("6") < 80 (4/8/2014 5:47:01 PM) ● TRUE - SNMP : 172.16.33.35 : UPS Output Voltage (VAC) ("229") IN 220..240 (4/8/2014 5:46:58 PM) ● TRUE - SNMP : 172.16.33.35 : UPS Output Frequency (Hz) ("49") IN 48..52 (4/8/2014 5:46:58 PM) ● TRUE - SNMP : 172.16.33.35 : UPS Input Voltage (VAC) ("229") IN 220..240 (4/8/2014 5:46:58 PM) ● TRUE - SNMP : 172.16.33.35 : UPS Input Frequency (Hz) ("50") IN 48..52 (4/8/2014 5:46:58 PM) ● TRUE - SNMP : 172.16.33.35 : UPS Current Temperature ("23") < 50 (4/8/2014 5:47:01 PM) ● TRUE - SNMP : 172.16.33.35 : UPS Battery Status (2=Normal) ("2") = 2 (4/8/2014 5:46:58 PM) ● TRUE - SNMP : 172.16.33.35 : UPS Battery Selftest Result (1=Pass, 2=Fail) ("1") = 1 (4/8/2014 5:46:58 PM)	K005V02	SERVER2	Wolf CR	8. Apr 2014 17:50:40	

Image: APC watch na CM portáli

Date:
04/09/2014