

**HP server** 

**Dell Server** 

Fujitsu siemens server

Linking with the CM Server

# HP Management Agents (HP server)

**HP Management Agents** serves to diagnosis of status of HP servers running on OS Linux and OpenVMS. It offers information about the temperature state, disk fields (RAID), overload, coolers, memories, disks, etc. CUSTOMER MONITOR can later use these information for monitoring and evaluation of the HP servers' status, while it doesn't need to access them through SNMP protocol.

### Installation on ESX server

For monitoring of servers' status, it is first necessary to install HP Managements Agents, which however works only on **HP servers**. We recommend to download the latest version for specific servers <u>HERE</u> [1]. On the page, select the option **Download drivers and software (and firmware)** and fill out type of the HP server into the field **for product**.

### Installation on Windows

For monitoring of servers' status, it is first necessary to install Insight Manager Agents. You can install it from CD SmartStart from HP, or download it from the internet. The download procedure is similar as for an ESX server. You need to have SNMP service installed to be able to install Insight manager.

The installation procedure on ESX server and windows, as well as the process of activation of the SMTP service, can be found in the manual <u>Monitoring of selected server</u> <u>brands (SK)</u> [2]

# **DELL OpenManage (Dell server)**

**OpenManage** serves to diagnosis of status of DELL servers running on OS Linux and Windows. It offers information about the temperature state, disk fields (RAID), overload, coolers, memories, disks, etc. CUSTOMER MONITOR can later use these information for monitoring and evaluation of the DELL servers' status, while it accesses them through SNMP protocol.

## Installation on ESX server

For monitoring of servers' status, it is first necessary to install OpenManage, which however works only on **DELL servers**. Before you install, check existence of the SNMP service, resp. activate it. For specific servers, we recommend to download the latest version of OpenManage <u>HERE</u> [3].

### **Installation on Windows**

For monitoring of servers' status, it is first necessary to install OpenManage, which you can install from the DVD from Dell, or download it from the internet. The download procedure is similar as for ESX servers. For correct installation, it's essential to have SNMP service installed.

The installation procedure on ESX server and windows, as well as the process of activation of the SMTP service, can be found in the manual <u>Monitoring of selected server</u> <u>brands (SK)</u> [2]

## Fujitsu ServerView (Fujitsu siemens server)

**ServerView** serves to diagnosis of status of Fujitsu siemens servers running on OS Linux and Windows. It offers information about the temperature state, disk fields (RAID), overload, coolers, memories, disks, etc. CUSTOMER MONITOR can later use these information for monitoring and evaluation of the DELL servers' status, while it accesses them through SNMP protocol.

### Installation on ESX server

ServerView Agents only works on **Fujitsu Siemens servers**. Before you install, chceck existence of SNMP service with the command "**rpm -q snmpd**". For specific servers, we recommend to download the latest version from the internet <u>HERE</u> [4].

### **Installation on Windows**

SeverView môžete nainštalovať z CD Software od FS alebo stiahnuť z internetu. Postup na stiahnutie je podobný ako pre ESX server. Inštalácia ServerView pozostáva z 3 softvérových balíkov:

SeverView can be installed from the CD Software from FS, or download it from the internet. The download procedure is similar as for ESX servers. The ServerView installation consists of 3 software packages:

ServerView Agents - agents for obtaining states of devices (SNMP service must be installed)

**ServerView S2** – web interface, which offers information about the servers from ServerView Agents to the user. It enables to also connect to computers with other OS than Windows, which have the program ServerView Agents installed.

ServerView RAID - web interface, through which you can manage raid fields via ServerView Agents

The installation procedure on ESX server and windows, as well as the process of activation of the SMTP service, can be found in the manual <u>Monitoring of selected server</u> <u>brands (SK)</u> [2]

## Linking with the CM Server

For each type of server (HP,DELL,FS), there's a **swl** file created, which contains a Watch task for the specific server. This task monitors on the server states of these devices: RAM, RAID, HDD, network adapters, blowers, sensors, CPU and power sources. If a change occurs, the operator can be informed immediately through CM Server.

#### Monitoring on ESX server

Even though you can't install C-Monitor to an ESX server, it can still be monitored by another computer with C-Monitor. To be able to monitor it, you need to perform these commands as **root** on the ESX server :



- 1. Enabling SNMP Service in the firewall esxcfg-firewall -e snmpd
- 2. Enabling the service of system startup chkconfig snmpd on
- 3. Current service startup service snmpd start

On the computer with C-Monitor, add a Watch task for monitoring of servers through C-Monitor wizard, C-Monitor -> Scheduler - Monitor Console -> Watches -> Launch wizard.



Image: Spustenie wizarda pre monitoring vybranej značky servera



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JSTOMER MONITOR®

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ELL Server Monitoring	version 1.7	Sem zadáte IP adresu servera, ktorý chcete	
Parameter	Value	monitorovať	
IP address	127.0.0.1		
SNMP Comunity	public		
SNMP Timeout	300		
SNMP Retries	8		
Memories Test			
ArrayController Test			
Logic Drive RAID Test			
HDD Health Test			
Usage on Partition Test			-
	Period Unit		Test, Edit Script
peration Test F Successful → 5	Period Unit min -	server	Test, Edit Script

Image: Zadanie IP adresy servera, ktorý chcete monitorovať

Monitoring of servers status through manufacturers' sol

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JSTOMER MONITOR®

HP Server Monitoring version icript Parameter	on 1.7	
Decementary 1		
Parameter	Value	^
ArrayAccelerator Test	✓	
Logic Drive RAID Test	V	
HDD Health Test	V	
Usage on Partition Test	✓	
Usage on Memory Test	7	
Network Interface Test	V	
Fan Test	V	
Temperature Test	7	
CPU Test	7	-
	Test. Er	dit Script
)peration Test Per	riod Unit	
Successful - 5	min -	

Image: Zobrazenie súčastí, ktoré sa dajú sledovať (Raid, Pamäte a pod.)

You can view the current state of the watch on CM Portal in the section *Presentation and Evaluation* -> *Presentation -> Watches (online monitoring)*, select the device, for which you want to view the watch using the upper filter. The watch is displayed on the next image.



#### Monitoring of servers status through manufacturers' sol

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	Admin zóna	Prehliadanie a Vyhodnotenie Gustom	er Desk	Communicato	r		Operátor: Meno ope	eràtora 🕜
Zhalif viello 🔹 Rozhalif viello	📕 🛛 Watches (C	Online monitoring)						
Upozomenia	Spoločnosť	Počitač & IV	Zoradiť podľ	CMID -	Zoradiť Watches podľa	bovtu 💌		
Paruchy	Meno Watchu	Current status	Zoradiť ako	Vzostupne 💌	Zoradit' Watches also	tostupne 💌	Hladat	
História porúch	Operator	Zobraziť Pod sebou		alae 🗹 Unknown			_	
Poruchy na počítačoch								
Zobrazenia		[0K] 2		OK - because all cor TRUE - successf	uttions are true ut CHAT "HP Server Manitoring			
		TemperatureFromSensor.cpu		version 1.7" (7. 9. 20	012 15:24:37)			
Ζόπγ		[DK] 2			st Var. "ComputerName[]" : ProLient ML358 G6I (2) > 0			
Watches (Online monitoring)		TemperatureFramSensor memory		TRUE - CHAT Vec	ti Var. "StatusO'ArrayController[]			
Počítače		[OK]		: 82, 39 [DK] (2) < 3 TRUE - CHAT Vec				
Online informácie		2		<ul> <li>TRUE - CHAT Vec</li> <li>"StatusOfArrayAccol</li> </ul>				
Internet bandwidth monitor		Temperature?romSensor.memory		TRUE - CHAT Vec	tt Var. "StatusOfLogicDrive@":			
Zmeny na počítači		[D40]		DA.1, RAID1, Size 2	79.438 [0K] (2) < 3 :t.Var. "Health0fHD0[]" : DA, bay			
Foto dokumentácia		2			0 (2), DA, bay 2, Size 279,40B			
		TemperatureFramSensor.memory		(OK) (2) < 3				
Manažerské informácie		loid			tt Var. "UsageOnPartition[]" : C1 - 58.5G8 (50.9%) (50.9), E1			
					1.8G8 [52:6%] (52:6) < 90			
Reporty		TemperatureFromSensor.memory			ct.Var. "UsageOnlifemory[]" :			
Prenesené dáta na ADSL a FIV		[DK] 2			24.0GB [10.4%] (10.4), Physical B [22.0%] (22.0) < 99			
	HP server		03:59:35	TRUE - CHAT Vec		BALSV01	SERVER	-
		TemperatureFramSensor.memory [OK]			tenface[]" : Lacal Area			
		2		Connection 2 [OK] (2	2) < 3 st.Var. "StatusOfFan(]" : id1.			
					system IOKI (2), id3, system			
	4							

#### Image: Zobrazenie watchu pre monitoring stavu serverov na CM portáli Date:

03/03/2012External Links:

Monitoring vnútra PC, NB [5]Images:



#### Links

[1] http://welcome.hp.com/country/us/en/support.html?pageDisplay=drivers.

[2] https://www.customermonitor.sk/podpora/manualy/hlavne-manualy/monitoring-vybranych-znaciek-serverov

#### [3]

http://support.dell.com/support/downloads/index.aspx?c=us&l=en&s=gen&~ck=gp . [4] http://download.ts.fujitsu.com/prim\_supportcd/SVSSoftware/html/index\_e.htm

[5] https://customermonitor.eu/node/761

[6] https://customermonitor.eu/sites/default/files/hw%20monitoring%20serverov\_0.png[7]

https://customermonitor.eu/sites/default/files/ip%20adresa%20pre%20serveer%20monitoring.png

[8] https://customermonitor.eu/sites/default/files/server%20mon 0.png

[9] https://customermonitor.eu/sites/default/files/watch%20servery%20v%20cm\_0.png