Correct network settings are now essential for a reliable function of all comprehensive IT systems. Some settings are the basis for security solutions, and so they must be correct at all times. Other settings or states may serve for management of other processes (e.g. execute synchronization only if I'm on a fast internet connection). Therefore, it's necessary for effective management of IT to have these settings and status in real time under control. CM provides several solutions to verify configuration settings, as well as real-time status. They're illustrated on the samples below. There are many more besides these outlined solutions, made by combination of CM functions (for instance, there's a whole bunch of Watches conditions dedicated for network environment).

## Examples of solutions to determine network configuration and current status in CM :

**Online information** (in Presentation and Evaluation) provide status of IP addresses in real time - public IP, and for every active network adapter its IP address, IP Gateway, MAC addresses, load in real transfer speed .. History is available for the past 48 hours.

	100					* = =	Úvodný prehľad	I € Kredit ? Manual	Ø Odhlásiť
	Admin zón		idanie a notenie	Customer Desk	Communi	cator		Operátor: Meno ope	rátora 🕜
Zbalif vielko Rozbalif vielko	🚦 Zóny								?
Upozomenia Poruchy	Online Informácie	<ul> <li>Spoločnos</li> <li>Operátor</li> </ul>	r	Počitač 8 Umiestnenie Zoradiť podľa	CH-D T	Použivateľ Zoradiť ako		Hindar Rozširen	
História porúch	Unite mornade	0S			ačne zadané počítač				
Poruchy na počítačoch Zobrazenia	< Sekcia	Parameter	* 254100A			2.65	AUD056	3 5544049	_
Zóni	Sencia	Show	1. SEANBOA				ANB056 Histogram	3. SEANBOB History Historyan	
Watches (Online monitoring) Počítače		Network Name	HINO-NB			SEAN	1056	JURAJ-HP	
Online Informácia		Global ip	213.01.134.42	2		84.16	38.179	62.176.172.154	
Internet bandwidth monitor Zmeny na počítači	Local ip 1	lpimac Gateway ipimac	<u>98,40,3,10/08</u> 192,168,1,1/0	EFF:78:91:26 C0:C1:C0:3A:EB:D8			8.1.132/00:21:50:A6:05 8.1.1/00:01:00:3A:EB:08		192.04.E2
Foto dokumentácia	-	Adapter name	TAP-Win32 Ad	lapter V9		Intel(R)	WIFI Link \$100 AGN	Wi-Fi adaptér Broadco 802,11b/g/n 1x1	an 4313GN
Manažerské informácie		Avg down speed in last 30s	217 B/s			42 B/s		151 B/s	
Reporty Prenesené dáta na ADSL a FW		Avg up speed in last 30s	76 B/s			232 BV	k.	71 B/s	
		Cpu system							
	System usage	usage Cpu kernel usage	5%			22 %		6 % 3 %	
		Hemory usage	48 %			35 %		64 %	

Image: Aktuálne sieťové nastavenia v Online Informáciách

**Zone Network settings** (in Presentation and Evaluation) provides status updated once a day, and a 6 month history of the complete network configuration of network adapters, as well as IP addresses, from which the



### **Check of network IP configuration**

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				🗰 🔚 🚾 Úvodný pr	ehľad 🧲 Kredit <mark>?</mark> Manual 💩 Odhlá
	Admin zóna	Prehliadanie Vyhodnoteni	Customer Desk	Communicator	Operator: Meno operatora
Coalif vietto Rochalif vietto	Zóny				
Upozornenia		Spoločnosť	Počitač & Umicatnenie	Použivateľ	
Poruchy	Siefové nastavenia 💌	Operátor	Zoradiť podľa CM-D	<ul> <li>Zoradiť ako Vzostupne *</li> </ul>	Hladať Rozširené 🗵
História porúch		os	Zahrnáť ručne za	danè počitače 📝 Len online počitače	
Poruchy na počítačech					
	4				
Zobrazenia		History	Show history	Show history	Show history
tény		Network Name	MINO-NE	SEANB056	JURAJ-HP
Watches (Online monitoring)		User	Mian	Miro	Junaj
očiače		Current Login	Mino-NB/Milan	SEANB056/sonka	Juraj-HPJuraj
Pocitace Doline informácie		Location	po ruke	Devinska	Tapakwa
		Online connection	4. Sep 2012 14:54:17	4. Sep 2012 14:54:04	4. Sep 2012 14:54:07
nternet bandwidth monitor Emery na počítači		Current IP	10.40.3.10, 192.168.0.205, 192.168.73.1, 192.168.202.1	192.168.1.132, 192.168.203.1, 192.168.174.1	172.16.75.110, 172.16.75.160
Foto dokumentácia		Network	Workgroup: WORKGROUP	Workgroup: WORKGROUP	Warkgroup: WORKGROUP
Manažerské informácie		Host name	Mino-N5	SEAND256	Juraj-HP
		Node type	Hybrid	Hybrid	Peer-To-Peer
Reporty		Dns servers	192.168.1.1	10.5.18.5,10.5.18.2,195.80.171.4	172.16.75.50,10.10.10.1,192.168.1.1
Prenesené dáta na ADSL a FW		Global ip	91.127.237.50	84.16.38.170	188.121.180.165
	Adapter 1	Name	TAP-Win32 Adapter V9	TAP-Win32 Adapter V9	TAP-Win32 Adapter V9
		Type	Ethernet	Ethernet	Ethernet
		Physical address	00 FF 79 91 26 92	00 FF F1:12 68 3F	00 FF.AC D9 98 CC

#### Image: Zóna - sieťové nastavenia a vstup do histórie

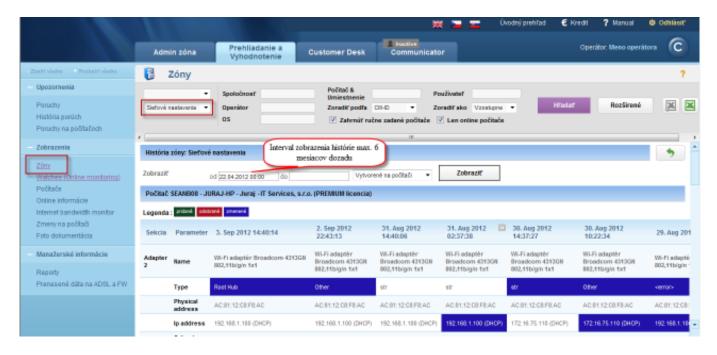


Image: Zobrazenie histórie sieťvých nastavení

**Computers** (in Presentation and Evaluation) provide overview of the last received public IP (in real time) of computers and local IP addresses of network adapters.



## **Check of network IP configuration**

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				<b>#</b> 1	🔤 🚾 Úvodný prehľa	d E Kredit ? Manual	() Ochlär
	Admin zón	Prehliadanie a Vyhodnotenie	Customer Desk	Communicator		Operátor: Meno op	erátora 🕻
itt vietto - Rozbaltt vietto	🔋 Počit	ače					
pozomenia	Spoločnosť	Počitač &	Po	uSvatef	Hfadat'	Rozširené	
aruchy	Operátor	Umiextnenie Zoradif podľa		radif'ako Vzostupne -			
stória porúch	Current status			radic and vicoscipie ·	Zahrnúř ručne zadané	pocitace	den ( r
pruchy na počítačoch	Current status	🗹 Len onlin	e pocitace				
obrazenia	Zoznam počitačo	(zobrazené 3 položky)				Report Zoznam počitačov	
lan e	Parameter	1. SEANB04	2. <u>55</u>	ANB056 S	3. SEANBOB		
Zóny Watches (Online monitoring)	Show	Datai Histogram	Detail	Histogram	Detail Histogram		
	Network Name	MNO-ND	SEAN	8055	JURAI-HP		
<u>ottate</u>	Network	Workgroup: WORKGROUP	Work	group: WORKGROUP	Workgroup: WORK	GROUP	
nline informácie	Current Login	Mino-NEWilliam	SEAN	5058 aonka	Jura(-HPJ ana)		
ternet bandwidth monitor	User Type	Admin (UAC: No)	Admit	(UAD: Yes)	Admin (UAD: Yes)		
neny na počítači	Global ip	213.81.134.42	64.16	38.170	62.176.172.154		
to dokumentácia	Local ip 1	10.40.3.10	192.1	66.1.132	172.16.75.110		
Manažerské informácie	Local ip 2	192.168.0.205	192.1	65.203.1	172.16.75.160		
Indzerswe informatie	Local ip 3	192.168.73.1	192.1	68.174.1			
eporty	Local ip 4	192.165.202.1					
Prenesené dáta na ADSL a FW	08	Windows 7 Ultimate Windows Seven		owa 7 Professional Windows Ser asional x54	Windows 7 Profes	sional Windows Seven Professional	1x64
	OS Version	Windows Seven Ultimate x54 (SP1)	Winds	owa Seven Professional x64 (SP	<ol> <li>Windows Seven P</li> </ol>	rofexational x64 (SP1)	
	OS Language	English (English)	Engla	h (English)	Slovak (English)		
	Processor	Intel(R) Core(TM) (7-2630001 CPU (2)		<ol> <li>Core(TM)2 Due CPU P5400 (2): salarial x54</li> </ol>		5-2410H CPU @ 2.30GHz	

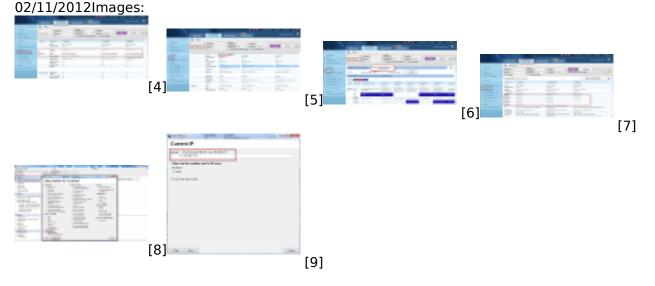
Image: Zobrazenie Globálnej a Verejnej IP v časti Prehliadanie a Vyhodnotenie -> Zobrazenia -> Počítače

**Scheduler in C-MonitorConsole** provides conditional execution of planned tasks (C-Scheduler) for management of program activity - <u>According to the network</u> <u>adapter's current IP address</u> [1]

In **Watches**, you can use the following conditions to detect network settings and current status :

Current IP address [2] Network Presented [3]

We're currently developing signalization of change of the public IP address (the signalization will run from the CM Server), which you can use to notify of switching to slower, backup lines. Date:



# Links

[1] https://customermonitor.eu/how-cm-works-0/monitoring-and-diagnostics/introduction-settingonline-monitoring-watches/overview#Current IP

[2] https://customermonitor.eu/how-cm-works-0/monitoring-and-diagnostics/introduction-setting-



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online-monitoring-watches/overview#CurrentIP

[3] https://customermonitor.eu/how-cm-works-0/monitoring-and-diagnostics/introduction-setting-

online-monitoring-watches/overview#NetworkPresented

- [4] https://customermonitor.eu/sites/default/files/online%20info.png
- [5] https://customermonitor.eu/sites/default/files/zony1.png
- [6] https://customermonitor.eu/sites/default/files/zony2.png
- [7] https://customermonitor.eu/sites/default/files/pocitace.png
- [8] https://customermonitor.eu/sites/default/files/watch1.png
- [9] https://customermonitor.eu/sites/default/files/watch2.png