

<u>View of errors and current historical data of parameters indicating the health of drive on</u> <u>CM Portal</u>

Remote tests of hard drives

Example of remote tests result - faultless state of disk, defective disk

View of errors and current historical data of parameters indicating the health of drive on CM Portal

Health of disks is checked automatically on each PC, where C-Monitor client is installed, by monitoring of S.M.A.R.T. parameters. If status of the critical parameters gets worse, the operator is informed that the disk's health has worsen, automatically by an email message. The status will also appear in errors of the given customer. To remove the error, you must first confirm it. If you select perfect condition of disk at the confirmation, the error will disappear. The error will also disappear, when the disk is replaced by a faultless one, and then full descript on PC runs normally. If by testing you find out that the disk is indeed defective, then select the option to confirm defective disk, after which the error will be marked by a green tick and remains in the list of errors until the disk is replaced by a faultless one.

	Admin zóna Prehiladanie a Customer Desk	Operator: Pavel	C
Zhatir diates . Processit vienes	8 Poruchy		?
Upozernenia Estadhi História porich Poruchy na počítačoch	Nostolnosť Počítal & SWIPC13 Použivateľ Operátor Typ V Svipeštvené SWIPC13 Použivateľ Operátor Typ V Svipeštvené Zakajúca na uzavretie		
- Zobrazenia	SWPC18 - SKPCBRA015 - Lucia : Zoznam poruchových niavov [zobrazené 2 položo]	Potentiť označené poruchy	
Zóny Watches (Online monitoring)	X • Id Úroveň Trvanie poruchy Popis poruchy Vyhodnotenů hodnota nodasta úrovne počítača v Použivateľ sietí	Społočnosť	
Počítače Online informácie	Hoditota Raw ja Hoditota Raw ja Hodito	Stovakia spel, s r.s.	Detail

Image: Poruchy SMART parametrov

Information about the current state of local disks are gathered on CM portal in the section *Presentation and Evaluation -> Presentation -> Zones ->* Zone Disks - SMART as displayed on the next image.

	Admin zóna	Prehliadanie a Vyhodnotenie	Customer Desk	Operátor: Pavol
Zbaliť všetko Rozbaliť všetko	Zóny			
- Upozornenia	Systémové zóny	Spoločnosť	Počitač & 6930 Použivateľ	
Poruchy	Disky - SMART	Operátor	Zoradiť podľa CM-ID 💌 Zoradiť ako Vzostupne 💌	Hfadat
História porúch	Antivírusy Disky - lokálne	OS	Zahrnúť ručne zadané počítače 🔲 Len online počítače	
Poruchy na počítačoch	Disky - sietové			
Zobrazenia	 Deky - SMART IP Scenner Online Informácie 	-		
Zóny	Z OS Aktualizácia OS Body obnovy	brazená 1 položka]	po kliknuti sa zobrazi história	
Watches (Online monitoring)	Počítače v sieti Sletové nastavenia	Parameter	1. SEANBO2	
Počítače	Skužby Spúliťané po litarte	History	Shew.history	
Online informácie	Zdieľania	Network Name	HP6930P	
Internet bandwidth monitor		User	Pavol	
Zmeny na počítači		Current Login	HP6930P/pavolp	
Foto dokumentácia		Location	prenosny BA	
Manažerské informácie	Sekcia	Parameter	1. SEANB02	
	Device 0	Status	OK	
Reporty	PUTTLE V	SMART Test	Spustifiest	
Prenesené dáta na ADSL a FW		Model number	ST9500420AS	



Image: Zobrazenie zóny Disky - S.M.A.R.T s možnosťou zobrazenia históre

The next image shows the current state of S.M.A.R.T parameters. If the values aren't red, the disk should be fine. By clicking on a PC name, you'll see the history of SMART parameters changes.

			* = =		Úvodn	ý prehľad 👘	E Kredit ? Manual	() Odhlä
	Admin zóna	Prehliadanie a Vyhodnotenie Gu	stomer Desk		Com	municator	Operátor: Meno oper	rátora 🚺
ko Rozbeliť všeko	🚦 Zóny							?
enia			Počitač &					
			Umiestnenie		nb08	Použi		
	Disky - SMART	Operátor	Zoradiť podľ				iiťako Vzostupne 🔻	HFa
itačoch		OS	Zahrnúť	ručne	zadané	počítače 📃 L	en online počítače	
chacoch	•							
	Zóna Disky - SMART [1	zobrazená 1 položka]						
	Sekcia	Parameter	1. SEANBOO	1				
ng)		History						
		Network Name	Show history JURAJ-HP					
		Online connection	13. Feb 2013	10:10:3	37			
onitor		User	Juraj					
		Current Login	Juraj-HPUura					
		Location	Topolova					
ácie								
	Sekcia	Parameter	1. SEANBOS	1				
ADSL a FW	Device 0	Status	OK					
SL a FW		SMART Test	Spustit' test					
		Model number	ST9500420A	5				
		Supported smart	Yes					
		Firmware revision	0006HPM1					
		Serial number	5VJ7SW7Z					
		Disk size	466.0 GB					
	Sekcia	Parameter	Value / Thre	eshold	/Worst	/ Raw		
	Device 0	[1] Raw read error rate	115	6	99	4163		
		[3] Spin up time	97	0	97	0		
		[4] Start/stop count	99	0	99	1210		
		[5] Reallocated sector count	100	36	100	0		
		[7] Seek error rate	71	30	60	9392		
		[9] Power on hours count	98	0	98	2572		
		[10] Spin retry count	100	97	100	0		
		[12] Power cycle count	99	20	37	1192		
		[183] Sata downshift error count	100	0	253	0		
		[184] End to end error	100	97	100	0		
		[187] Reported uncorrectable errors	100	0	100	0		
		[188] Command timeout	100	0	98	5		
		[189] High fly writes	100	0	100	0		
		[190] Temp difference from 100	61	45	47	39		
		[191] G sense error rate	100	0	100	136		
		[192] Power off retract cycle	100	0	100	20		
		[193] Load unload cycle count	97	0	97	6958		
		[194] Temperature	39	0	53	39		
		[195] Hardware ecc recovered	48	0	42	4163		
		[196] Reallocation events count	100	36	100	0		
		[197] Current pending sector count	100	0	100	0		
		[198] Uncorrectable sector count	100	0	100	0		
		[199] Ultradma crc error rate	200	0	200	0		

Image: Zobrazenie aktuálneho stavu S.M.A.R.T parametrov pre konkrétny počítač

There are four values for each parameter. Columns: **Value** - a constant defined by SMART standard (current value) **Threshold**- a value, below which Value cannot go, otherwise the disk is defective



Worst - the worst recorded value so far

RAW - absolute value of the monitored parameter (e.g. number of reallocated sectors)

Critical S.M.A.R.T parameters evaluated in CM according to increase of error events

Reallocated Sectors Count: The number of sectors, that were marked as inapplicable by the disk's electronics, and the data was moved to another sector. The data transfer doesn't mean the data has been damaged, though for an increasing amount of bad sectors, the reading and writing speed decreases. This doesn't mean that these sectors will be displayed as bad when we'd scan the disk. Modern disks have an area of sectors, which they use to replace bad sectors, if there are any found.

Reallocation Events Count: Total number of both successful and unsuccessful tries to move data from damaged sectors.

Current Pending Sector Count: Number of sectors in the failing state. If the operation of writing and check of the written data is successful, the sector is classified as functional. Otherwise, the system will try to transfer these data.

Uncorrectable Sector Count: Number of permanently damaged sectors. The higher this number is, the bigger is the risk of failure of the entire disk.

Other parameters evaluated in CM only by Value reaching a value under Treshold

Read Error Rate: Errors of data reading. Any deficiencies in this area reffer to an error of reading heads or the disc surface. Intensive increasing of defectiveness almost always leads to irreversible data losses.

Spin Retry Count: Number of repeated tries to spin the discs. An increasing value indicates a problem with the engine, or the control electronics.

Spin-up Time: Time, in which the drive's discs spin up to the operating speed. Its increasing indicates malfunction of the engine, or eventually of the control electronics. When combined with high temperature, it's most likely a case of worn bearings.

Start/Stop Count: Number of cycles of the disk's turning on/off. High values in combination with a low amount of working time may be caused by bad setup of saving modes (for example turning off the disk after three minutes of inactivity, if data is written every four minutes).

Power On Hours count: Total running time since the disk's production. There's nothing we can do with high values.

Temperature: There can be more than one information, temperature sensors can be found in the disk's body, in the outside environment, as well as inside.

If some parameter values are red, it's necessary to check the disk's status. In C-Monitor version 2.6 and higher, there are <u>Remote tests of hard drives</u> available, read more in the text below. If a disk doesn't pass these tests, the user must be notified, that it's effective to replace it, at best along with export of parameter history output. The export is done by clicking on the Excel icon in the top right corner.

If you don't want to use the integrated solution for testing disks via C-Monitor client, you can use the manufacturer's own software for testing potentially defective drives.

Remote tests of hard drives

Launch of the remote test from the zone - Disks - S.M.A.R.T

Launch of the remote test from the section Errors



Launch of the remote test of hard drive from e-mail

Assessment of the final and ongoing reports from remote drives tests

Since version 2.6, C-Monitor client provides an option to remotely test hard drives. The test of a drive can be launched on several places. The test's result, as well as the ongoing status will be delivered to you by email. During the test, the user may work normally and won't be limited at all, as he won't even be aware that the test is running. Read more information in the text below.

Launch of the remote test from the zone - Disks - S.M.A.R.T

Test of a disk can be carried out directly from the zone Disks - SMART, which is located in the section *Presentation and Evaluation -> Presentation -> Zones -> Zone Disks - SMART.* Search for a specific computer using the upper filter, and press the button *Run test* as displayed on the next image.

	1000		_	₩.		Úvodný prehľad	€ Kredit	? Manual	🖞 Odhlàsiť
	Admin zóna	Prehliadanie a Vyhodnotenie	Customer Desk	Communicator			Oper	ator: Meno operi	atora 🕜
- Zhair vieto 🔹 Rozhair vieto	🚦 Zóny								? 9,
- Upozornenia		Spoločnosť	Počítač &	PouSwater					
Poruchy	Daky - SMART	Operátor	Zoradiť podľa CM-ID		Vapetupne	Hlada	02		XX
História porúch	Daky - SHORT	OS		ané počítače 🗌 Len oni		•			
Poruchy na počítačoch		05	annut ruche zao	ane pocrace initian on	ne pocrace				
Zobrazenia	Zóna Disky - SMART [2	obrazená 1 položka j							
Zlai	Sekcia	Parameter	1. SEANBOB						
Watches (Online monitoring)		History	Show history						
Počítače		Network Name	JURAJ-HP						
Online informácie		Online connection	13. Feb 2013 21:335	57					
Internet bandwidth monitor		User	Juraj						
Zmeny na počítači		Current Login	Juraj-HPUuraj						
Foto dokumentácia		Location	Topolova						
Manažerské informácie	Sekcia	Parameter	1. SEANBOB						
Reporty	Device 0	Status	OK						
Prenesené dáta na ADSL a FW		SMART Text	Soustif test	_					
		Model number	ST9500420AS	Spustenie vzdial	eného				
		Supported smart	Yes	testu diska					
		Firmware revision	DODGH PM 1						
		Serial number	6V/75W7Z						

Image: Spustenie vzdialeného testu pevného disku zo zóny disky-smart

In the next window you can enter any email address of the test result's sender, or keep the default address, and into the field *send test result to address* enter email or emails, to which the result is going to be sent, default address is the currently logged operator's one. Then press *Run test* which triggers an instruction to C-Monitor client to execute the test of drive. Here you can also interrupt a currently running test, as well as request the status of also running tests, which is also going to be sent to your email.



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	Admin zóna Prehladanie a Customer Desk Communicator Operátor Meso operátora C
- Zhalif vletko 🔹 Rozhaliř vletko	🚦 Zóny ? 🔾
Upezomenia Poruchy História porúch Poruchy na počítačoch	spskolnosť Podľad & tentról Pouľkvateť Daky - SNART Operátor Zorasiť podľa OHD z Zorasiť ako Vzotupne Hďadať CČ M <
— Zobrazenia	Spusterie SMART Testu
<u>Zóny</u> Wiatches (Online monitoring) Poôtače Online informácie Internet bandwidth monitor Zmany na poôtača Poto dokumentácia	Spolačnosť IT Services, s.r.o. Počtač SEANDOB / JURAJ HP / Juraj 13, Feb 2013,10,39,53 Model disku STB500420A.S Sésové čisla SVJ7SV7Z Kapadta disku 466.0 GD PhysicalDate PO Spisočetke listka* Inter počitač
Manažerské informácie	Ernall odosielateľa výsledku testu * Vlastvá voľba 💌 enaritest@customemonitol.sk
Reporty	Wysłedok testu posłaf na adresu * Vłastwi w ba 💌 enaleperatoratienal sk. Viac emailov oddelte čiarkou alebo bodkočiarkou
Prenesené dílta na ADSL a FW	Spôšob odoslania emaile s výsledkom lestu z C-Mositora * Zmenit Po spustení testu bude bez vysušenia používateľa otestovaný disk. Test obvýšle trvá 1 - 3 hod. Zabezpečke, aby bol počásč počas testu stále zaprutý, inak test zopakujte. Po 6 hod. bude zaslaný stavkýsledok testu na výššie zadanú adresu (v emaile bude príložený súbor). Pre vázc informácii kliknite: www.customermonitor.sk. Spustiř test Pierušiť aktušíne bežiasi test Jednorázové vyšladanie stavu História odostaných požlačaviek (zobrazuje sa posledných 15 sdalostí)
	Dátum Udalosť Spustenie testu PhysicalDrive Odosielateľ Príjemca Príkazový riadok Spustil

Image: Spustenie vzdialeného testu pevného disku zo zóny disky-smart

Launch of the remote test from the section Errors

Another option to launch the test is in the section *Presentation and Evaluation -> Warnings -> Errors*, then search for a specific S.M.A.R.T error. In this error's detail, there's a button to launch remote test of the disk, as displayed on the next image. The following window is the same as described for launching the test through the <u>zone Disks - SMART</u>, therefore, all settings are the same as well.

				Úvodný prehľav	d € Kredit 🤉 Manual	🙂 Ochläsit
	Admin zóna	Prehliadanie a Vyhodnotenie Customer Desk	Communicator		Operátor: Meno operátora	୦ ୦
Zhalif viello - Rozhalif viello	😣 Poruchy					?
Upozomenia	Spoločnosť	Polital & parpell2 Poulivatef	Operator	Тур	-	
Paruchy		Umiestnenie Dispette Politikatian	· ·	136	Hisdat	
História porúch		Varovanie Bez chyby Nedefinovaně V Blo	hanned a			
Poruchy na počítačoch						
Zobrazenia	Detail poruchy č	. 13749182				
Zónv	Informácie o počítači		Založiť požiadavku do C	Desk-u Spust	iif test Potyrdiif poruci	hu 🦘
Watches (Online monitoring)	ld počitača	3765		-		
Počítače	CIII-ID počítača	Z0ZPC02				
Online informácie	Heno počitača v sieti	PC02811A		/		
Internet bandwidth monitor	Spoločnosť	Z0, 5.10.				
Zmeny na počítači	Sigt'	Domain: zolocal				
Foto dokumentácia	Použivateľ	Lubica				
	Email					
Manažerské informácie	Umiestnenie	709A				
Reporty	Informácie o poruche					
Prenesené dáta na ADSL a FW	Porucha	Disk - SMART parametre				
	Úroveň poruchy	Kritický alarm				
	ld poruchy	13749182				
	Zaznamenaná v CII	22. Jan 2013 09:05:35				

Image: Spustenie vzdialeného testu pevného disku z poruchy



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For each error that is automatically evaluated on a computer, an information about the error is sent to the operator by email. When one of the important S.M.A.R.T parameters is changed, an error is generated that warns about defective disk. An email is sent to the operator regarding this situation, which is displayed on the next image. A link to execute a remote test of the disk from CM Portal is highlighted in the text. By clicking on this link, you'll be automatically redirected to CM Portal webpage.

ت 17 🖬 🖃 🖻		69 - 801C : Disk - SMART para	ametre, Kritický alar	m - Správa (HTML)		-
Súbor Sp	ráva Dopinky ESET				۵	?
Solution Constrainte Solution Constrainté	Odpovedať Odpovedať Poslať to reagovať	Cm_watches_por ^ Andriadenému * Tímový e-mail * Rýchle kroky *	Premiestniť	Cznačiť ako neprečitané Kategorizovať * Y Spracovať * Značky G	Preložiť Lupa Úpravy Lupa	
Komu: Milan; Kópia:	istomer Monitor Juraj C69 - 801C : Disk - SMART parametre, Krit	ický alarm			Odoslané: so 9. 2. 2013 17:	13
Parameter a Príčinou pon Trvanie poru Zobraziť hisi Technik(ci) i otestovanie výmenu. Poznámka: t blokovať v č	20ZPC69 - 801C, ktorý používa Filip zá fyzický disk je : Reallocated Sector uchy je: Hodnota Raw je rôzna od nul chy: 33d 4h 23m 36s tóriu zóny s ďaľšími informáciami Milan Vysoký: +421 900 123456, mila disku buď <u>vzdialeným testom z CM</u> al Niektoré počítače, napríklad notecnok asti Počítače v záložke Vyhodnocotor IER MONITOR	Count - Drive 1 (Size: 23 y (3) od 31. Dec 2012 17:0 n@modra.sk Filip Velky: +4 ebo programom od výrobcu y firmy Lenovo, počítače s s	3.0 GB, Model: S 5:42 21910000000, <u>filig</u> , <u>v detaile chyby</u> u SSD diskami, nesp	T3250410AS, Serial: 6RYK D@email.sk Juraj Hrubý: juraj vedú výsledok testu a v prípa	CUSTOMER MONITOR (APNM).	 III III
 Zobrazi 	í ďalšie informácie o: SM Customer Mor	nitor.				•

Image: Spustenie vzdialeného testu pevného disku z emailu

After login to CM portal, you'll see this next window, where you just perform the same settings as are described at launch of the remote test from the section <u>zone Disks - SMART</u>, and start the test



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						Ovodný prehľad	E Kredit ? Mar	ual 🌵 🤇	Odhlásiť	
	Admin zóna	Prehliadanie a Vyhodnotenie	Customer Des	k Communicator			Operátor: Meno	operátora	C	
Zbalif viello Rozbalif viello Hiavné menu	Spustenie SMART Testu								•	ŕ
Zákaznici Počítače Audit SW a evidencia HW	Spoločnosť Počitač Nodel disku Sériové číslo	Z0 ST	Services, s.ro. IZPC02 / PC02811A / Lubk 3250310AS Y75M7V	a 13. Feb 2013 11:41:24						
- Použivateka	Kapacita disku PhysicalDrive	23 PD								
Mój profil Zákaznicke kontá Používateľská história	Spustenie testu * Email odosielateřa výsledk	u testu *	astná voľbe	• mattest@m.sk						
– Admin. nästroje	Výsledok testu poslať na a	dresu* bo	astná voľbe dkočiarkou	 operator3@am.ak 			Viac emailov oddel	le čiarkou ale	.00	
Inštalácie a skripty Udržiavanie PC		vyrušenia použivateľa		ide trvá 1 - 3 hod. Zabezpečte		č počas testu stále zap				
- C-Monitor klient	Po 6 hod. bude zaslaný stav	výsledok testu na vyš	šle zadanú adresu (vema	le bude priložený súbor). Pre	viac informácii	kliknite: www.customer	rmonitor.sk.			
Nastavenia C-Monitor na PC Rozvrhy a stav úloh	Spustit test		rušiť aktuálne bežiaci test	Jednorázové vyšao	danie stavu				_	
Watches - nastavenia Aktualizácia C-Monitor kl.	História odoslaných požia	daviek (zobrazuje sa)	posledných 15 udalosti)							H
Verde Licencie	▼ Dâtum Udalosť	Spustenie testu	PhysicalDrive Odosi	alatel" Prijemca	P	rikazový riadok		Spustil		

Image: Spustenie vzdialeného testu pevného disku z emailu

Logs recording the test's execution, single status requests, as well as completion, are located in the bottom part of the window from where the tests are launched, and are displayed on the next image.

					*	🛁 🔤 🛛 Úve	iný prehľad	€ Kindl ?	Manual 🛛 🕲 Odhilasif
	Admin zóna	Prehliadanie a Vyhodnotenie	Customer D	esk Communi	cator			Operator	Meno operátora
Zbalif vlatko Rozbaliř vlatko	Zóny								? 9
— Upozornenia		Spoločnosť	Počítač &	searbill P	feasivater				
Poruchy	Daky - SMART	Openitor	Umiestnen Zoradif por		oradit'ako Vzostupne	Hadat	02		
História porúch Poruchy na počítačoch		OS	Zahrnút	ručne zadané počítače	Len online počítače				
Zobrazenia									
Zim	Výsledok testu poslať	na adresu * vlast	ná voľba	 emaloperatora@ema 	il sk		Viac emails	ov oddefte člarkou	alebo bodkočlarkou
Watches (Online monitoring) Počitače	Spòsob odoslania ema z C-Monitora *	ilu s výsledkom testu CM S	ierver (s doručenim na	CM server cez HTTP)	Zmer	uit .			
Online Informácie		bez vyrušenia použivateta ot						ipakujte.	
Internet bandwidth monitor	Po 5 hod, bude zaslany	stawysledok teatu na vyššie	zadanu adresu (v e	maile bude priložený subr	or). Pre viac informacii ki	profe. www.customen	nonitor.sk.		
Zmeny na počítači Folo dokumentácia	Spustif te	et Prenal	iť aktuálne bežiaci te	at Jednonizov	uvete einebeitigv è				
– Masažerské informácie	Wethin education with a	ožiadaviek (zobrazuje sa po	eladedek #Eudalaet	e1					
	Historia odosianych p	ozialewek (zoorazuje sa po	sidenych 15 dealosi	4					
Reporty Prenesené dáta na ADSL a FW	• Dátum Udalosť	Spustenie testu	PhysicalDrive Od	osielateľ	Prijemca	Prikazový riadok			Spusti
	13. Feb Jednorázov 2013 vyžiadanie		PD0 sma	rtlest@customermonitori.sk	emailoperatora@email.sk	smartctl.exe -a /dev/po	0		Juraj
	13. Feb Prerußenie 2013 sktakine 10.43.39 bežiacete I	esta	PD0 sma	rtlest@customermonitori.sk	enaloperatora@enal.ak	amartoti exe -X idevija	10		Junij
	13. Feb 2013 Spustenie h 10:43:24	estu inned po prijeli na počitač	PD0 sma	rtesl@customermonitori.sk	emailoperatora@email.sk	smartctl.exe -a /dev/pr	0		Juraj
									•

Image: Zobrazenie histórie odoslaných požiadaviek SMART testu

Assessment of the final and ongoing reports from remote drives tests

Request for status of a disk's test is performed automatically after 6 hours since the test started. You may request an ongoing status of the test anytime by clicking on the button onetime check of status, which is in the same section as the button for the test's execution. Results and status of the



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test will be delivered to you by email, which is displayed on the following image. The results are saved in the attachments, marked by an arrow on the image, and it can be opened in the Notepad.

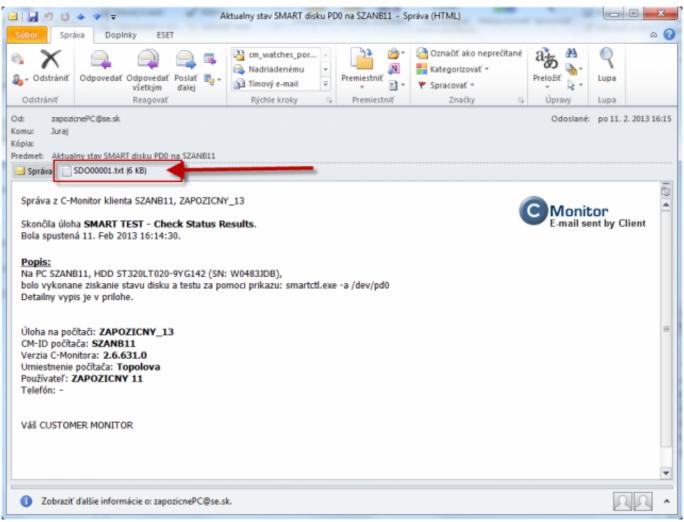


Image: Email s prílohou zobrazujúci priebežný a finálny stav vzdialeného testu disku

After opening the attachment, you'll see a report from the disk's test. Important parts that you should see are displayed on the next image.

First, check if the test ran on the required disk, by capacity or serial number. Sometimes, it might happen that name of the disk has changed after PC restart, and doesn't match the name on CM portal. Disks are only called according to PDx (Physical disk x).

In the bottom part of the report, marked as *SMART Self-test log structure revision number 1*, is the result of the test. Possible final states are described in the text below.



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SDO00001.txt - Poznámkový blok	8
Súbor Úpravy Formát Zobraziť Pomocník	
smartct] 6.0 2012-10-10 r3643 [i686-w64-mingw32-win8(64)] (sf-6.0-1) Copyright (C) 2002-12, Bruce Allen, Christian Franke, www.smartmontools.org	*
<pre>=== START OF INFORMATION SECTION === Device Model: ST320LT020-9YG142 Serial Number: w0483JDB LU WWN Device Id: 5 000c50 0534284e1 Firmware Version: 00031VM1 User Capacity: 320 072 933 376 bytes [320 GB] Sector 51zes: 512 bytes Togrcal, 4096 bytes physical Rotation Rate: 5455 rpm Device is: Not in smartctl database [for details use: -P showall] ATA Version is: ATA8-ACS T13/1699-D revision 4 SATA Version is: SATA 2.6, 3.0 Gb/s (current: 3.0 Gb/s) Local Time is: Mon Feb 11 16:14:31 2013 SMART support is: Available - device has SMART capability. SMART support is: Enabled</pre>	
SMART Self-test log structure revision number 1 Num Test Description Status Remaining LifeTime(hours) LBA_of_first_error # 1 Extended offline Completed without error 00% 528 - # 2 Vendor (0x50) Completed without error 00% 0 -	
SMART Selective self-test log data structure revision number 1 SPAN MIN_LBA MAX_LBA CURRENT_TEST_STATUS 1 0 0 Not_testing 2 0 0 Not_testing 3 0 0 Not_testing 4 0 0 Not_testing 5 0 0 Not_testing selective self-test flags (0x0): After scanning selected spans, do NOT read-scan remainder of disk. If selective self-test is pending on power-up, resume after 0 minute delay.	

Image: Časti z výsledného reportu, ktoré sú pre vás dôležité

Test has verified faultless state of the disk

The test ran without any errors, output from such test is displayed below. Text in the column *Status* gives information whether the test ran without errors - the disk is fine.

SMART Error Log Version: No Errors Logged	1		
SMART Self-test log stru Num <u>Test Description</u> # 1 Extended offline # 2 Vendor (0x50)	Status	00%	LBA_of_first_error - -

Image: Test overil bezchybný stav disku

Test has proven a defective disk

The test is completed and an error has been found, the next image nicely shows result of a test, which has proven that the disk is faulty. For such tests, we recommend to replace the disk.

SMAR		ucture revision number 1			
		Status	Remaining	LifeTime(hours)	LBA_of_first_error
	Extended offline	Completed: read failure		1172	7726402
# 2	Extended offline	Interrupted (host reset	80%	1	-

Image: Vyhodnotenie chybného stavu disku



Other possible states

1. Test is still running, output from this status is displayed below, there's also an information how many % remain to the test's completion.

SMART Error Log Version: 1 No Errors Logged						
	Cture revision number 1 <u>Status</u> <u>Remaining</u> LifeTime(hours) <u>Self-test routine in progress 90%</u> 526 <u>Completed without error</u> 00% 0	LBA_of_first_error - -				

Image: Test ešte stále beží

2. The test hasn't run at all, description of possible states and reasons

a, If the output report contains the message Interrupted (host reset), it means that a user has most likely turned off the device, on which the disk was tested. We recommend to settle on, that the user keeps the device turned on for at least 6 hours since beginning of the test, to be sure that the test will have enough time to be completed.

b, In case you're sure that the device has not been turned off, this message means that the test couldn't be finished, as the disk's defection is at such a high level, it simply wasn't possible. Therefore, we recommend to immediately backup all important data and replace the disk.

SMART Self-test log structure revision number 1							
Num	Test_Description			LifeTime(hours)	LBA_of_first_error		
		Interrupted (host reset)		454	-		
		Interrupted (host reset)		362	-		
# 3	Extended offline	Interrupted (host reset)	90%	1	-		

Image: Testovanie sa nedokončilo

c, If the ouput report contains a message **Aboted by host** it means that the user, under which the test was carried out has logged off. As you can see on the next image, the test was not successful until the 5th time. We recommend to notify the user, that his disk is going to be tested, and he should not turn off the PC, or log out.

SMART Self-test log structure revision number 1							
		Status	Remaining	LifeTime(hours)	LBA_of_first_error		
# 1	Extended offline	Aborted by host	90%	1872	-		
# 2	Extended offline	Aborted by host	90%	1872	-		
# 3	Extended offline	Aborted by host	90%	1872	-		
# 4	Extended offline	Aborted by host	90%	1872	-		
# 5	Extended offline	Completed without error	00%	1871	-		

Image: Testovanie bolo viackrát zrušené ale nakoniec sa test dokončil

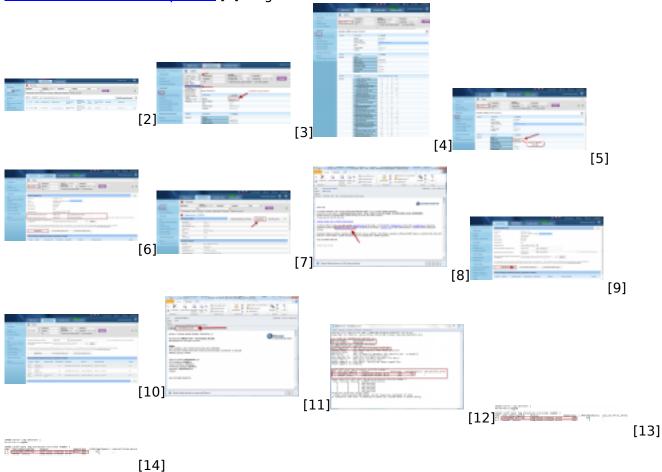
d, **Request of ongoing status didn't show the running test** - in some cases, it might occur that after requesting ongoing status of the disk, it states that there are no running tests. In this case, we recommend to wait the 6 hours since beginning of the test and just view the report after the test is completed, as it already contains information about course of the test.

```
SMART Self-test log structure revision number 1
No self-tests have been logged. [To run self-tests, use: smartct] -t]
```

Image: Pri zisťovaní priebežného stavu sa nezistila prítomnosť žiadneho bežiaceho testu



Date: 03/28/2012External Links: <u>Nastavenia a notifikácia porúch</u> [1]Images:



Links

[1] https://www.customermonitor.eu/node/605

- [2] https://www.customermonitor.eu/sites/default/files/10_2.png
- [3] https://www.customermonitor.eu/sites/default/files/1_2_0_0.png
- [4] https://www.customermonitor.eu/sites/default/files/zona%20smart.png
- [5] https://www.customermonitor.eu/sites/default/files/spustenie%20smartu%20zo%20zony.png

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