Some programs' function can be monitored indirectly by changes of certain files (e.g. their size changes, or date of the last entry into the file, or a certain minimal size may be required). If they change, then it's very likely, that the given process is functional and there's almost no risk of a serious failure.

This method can be used to check function of camera systems, voice records, exports from database. The check will be provided in your adjusted intervals, and already after second execution, if the monitored file hasn't been changed, a message informing about this state will be generated.

Setup of monitoring of changes

View of changed files on CM portal

STOMER MONITOR

nitoring and management tool

Notification in errors

Setup of monitoring of changes

The setup is performed through the wizard in C-Monitor Console schedule, choosing the function Files WatchDog.



Image: Spustenie wizarda na nastavenie sledovania zmien súborov

After pressing Run, the wizard for setup of the task for monitring of file changes will open. In the first window, define the directories, whose changes you want to check.



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G MonitorConsole	_				x					
C-Monitor Tools Help	Scheduler	Scheduler								
🗢 Settings	Ele Edit 🛛 🖓 🗢 🕼 🗙 📾 🗸 🤤 🕨 🗠 🤇	3 🖏 Filter	(Alb	-						
Co Scheduler	C:\CMonitor\Cnl%ScheduleList.sdl									
Watches	Name / Command Line	Last Execution	Last Result							
	DescCons.exe complete.sds	Wed, 21:53.05	Elapsed Time: 0:00:22							
C-Monitor Runtime Information	n's C-Descript for CM Complete - Differential	20 Aug 2012	OK.		- 1					
Waiting Tasks	DescCons.exe	Mon. 9.02:15	Elapsed Time: 0:00:18							
Running Tasks		00 1 0010	-01		- 1					
Watches State	iles WatchDog	×	lacsed Time: 0:00:13							
Watches Current Log					- 1					
C-Monitor Cuttent Log	C Descript		Acced Time: 0:01:37							
Emails			IK .		- 1					
Emails from Tasks, Watches waiting to	Enter watched files and folders which files changes should be watched		lapsed Time: 0:00:33							
Received, processed Emails	Watch files also in subfolders of folders specified by path/ or path/matk		LL ELES COPIED		- 1					
Emails waiking for sending	Try open each found file for read and ignore those which can't be opened.		lapsed Time: 0:01:40	(View Log File)						
Emails - All (without waiting for sending		-			_					
Sent Emails - C-Monitor System Met	Enter tolders, files, separated by line or ; (format: path\rank; path\riename)		Append Timer, 0:00:41							
Sent Emails - User and System task	G:\Backup\	~	14000 TINE 0.00.41		_					
Sent Emails - Responses to DM qui			K Donald Times 0.00000							
Not Sent Emails - Disabled	Sem zádáte cestu k		lapsed Time: 0:00:00							
Not Sent Emails - Paled	zložke, ktorej zmeny vo		IK		-					
THistory	vefkosti chcete		-		P					
Executed Tasks	siedovat				*					
C-Monitor Execution, C-Monitor Log Hi					=					
Watches History	,									
System Info	< Back Next >	Cancel								
Network Info										
Waiting Tasks History	Next Possible Execution									
Execution Fails	wed, 22. Aug 2012, 14:40:00									
Modules logs	Execute from Wed, 8. Feb 2012 at 14:40:00									
C-BackupPlus Logs	Min interval between executions Automatic									
C-Image Log:										
C-vmwBlackup Logs	Command Line Modules/Descript/DescCons.exe /Modules/Descript/complete.sds // onellast	descol xmi -xmi -e	of V.oos/lastcomplete adf		-					
		assessment of the second	ar regenericon pere au							
1										

Image: Zadáte si cestu k zložke, ktorej zmeny vo veľkosti chcete sledovať

On the next image is an option to more specifically define the changes, which must occur in the directory, for the state to be evaluated as OK. You can define minimal, maximal sizes, by which the directory must change etc.



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Files WatchDog			-		x				
CDescript									
Use extended conditions for changed files based on the file name mask, file size, total count and total size of changed files. If these conditions will not be met, output will be empty.									
File Name Mask (like C-BackupPlus) e.g. **.txt	Min. File Size	Max. File Size	Min. Changed Files Tot. Count	Min. Changed Files Tot. Size					
××	2GB								
	Nastavenie minimálnej zmeny sledovaného súboru								
					- -				
< Back Next >		-	·	Cance	el				

Image: Detailnejšie nastavenie zmeny sledovaného súboru, minimálna, maximálna zmena a pod.

In the next window, define rules for the monitored files, in our case, we've set a rule that all files in the directory are monitored.



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G MonitorConsole					x					
C-Monitor Tools Help	Schedu	Scheduler								
© Settings	Ele Edt 🛛 📓 🚴 🕈 🕼 🗙 📾 🖌 🤤 🕨 🗠	요 & Filter	Ab	-						
GScheduler	C:\CMonitor\Cnlf\ScheduleList.sdl									
Watches	Name / Command Line	Name / Command Line Last Execution L/								
	DescCons.exe complete.sds	Wed, 21:53:05	Elapsed Time: 0:00:22							
C-Monitor Runtime Information	n's C-Descript for CM Complete - Differential	20. Aug 2012	DK		- 11					
Waiting Tasks	DescCons.exe	Mon. 9.0215	Elapsed Time: 0:00:18							
Running Tasks	0.0 · · · 011 0 · · 11 0 · 2		-SK		- 1					
Watches State Fi	es WatchDog	×	lapsed Time: 0:00:13							
C-Monitor Current Log	A		IK		- 11					
	C Descript		lapsed Time: 0:01:37							
Emails	-		IK		- 11					
Emails from Tasks, Watches waiting fo	Enter watched hies masks or rules (ike C-BackupPlus)		lapsed Time: 0:00:33							
Received, processed Emails	These masks of rules will be aplied only to files found by party of partymask		LL FILES COPIED		- 11					
Emails waiting for sending	Enter watched files masks or rules (like in C-BackupPlus), separated by line or :		lapsed Time: 0:01:40	(View Log File)						
Sart Emails - C.Monitor Sectors Mar	+	A.	iK							
Sent Emails - User and System task	Pravidlo pre sledovanie		lapsed Time: 0:00:41							
Sent Emails - Responses to CM que	všetkých súborov v tejto		IK.							
Not Sent Emails - Disabled	zložke		lapsed Time: 0:00:00							
Not Sent Emails - Failed			IK.		-					
THistory					F					
Even and Tasks										
C-Monitor Execution, C-Monitor Log Hi		*								
Watches History	4	•			=					
System Info	< Back Next >	Cancel								
Network Info										
Waiting Tasks History	Next Possible Execution									
Execution Fails	wed, 22. Aug 2012, 14:40:00									
Modules logs	Execute from Wed, 8. Feb 2012 at 14:40:00									
C-BackupPlus Logs	Min interval between executions Automatic									
C-Image Logs										
C-hmwBlackup Logs	Modules\DescriptDescCons.exe .Modules\DescriptComplete.sds .VLogs\V	lastdescopl.xml -xml -e	of VLogsVastcomplete.sdf		-					
P										

Image: Nastavíte si pravidlá, ktoré súbory v zvolenej zložke sa majú kontrolovať

Don't tick the option "Save full script result to C-Descript file (*.sdf) with name specified below." in the wizard, unless you fully understand it and want to use it. The same goes for all of the wizard's options - those you don't understand, you should keep on the default values.



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C-Monitor Tools Help	Schedul	Scheduler								
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Co Scheduler	C:\CMonitor\Cnl\ScheduleList.sd									
Watches	Name / Command Line	Last Result		-						
	DescCons.exe <u>complete.sds</u>	Elapsed Time: 0:00:22								
C-Monitor Runtime Information's	C-Descript for CM Complete - Differential	C-Descript for CM Complete - Differential 20. Aug 2012								
Waiting Tasks	DescCons.exe	Mon, 9.02.15	Elapsed Time: 0:00:18							
Watches State			9K							
Watches Current Log	WatchDog		lapsed Time: 0:00:13							
C-Monitor Current Log	Descript		IK							
Emails	Descript		lapsed Time: 0:01:37		- 1					
Emails from Tasks, Watches waiting to Se	t required first start date and time, and required period		lapsed Time: 0:00:33							
Received, processed Emails			LL FILES COPIED		- 1					
Emails waiting for sending	Once Execute from 20. 8.2012 • at 16.35:00 🛬		lapsed Time: 0:01:40	(View Log File)						
Emails - All (without wating for sending Sent Emails - C.Meniter Sentem Mar	Daily Even 1 days		iK							
Sent Emails - User and System task	Weekly		lapsed Time: 0:00:41							
Sent Emails - Responses to CM gue	Monthly Last possible start		ĨK.		- 1					
Not Sent Emails - Disabled	Other nexted		lapsed Time: 0:00:00							
Not Sent Emails - Failed	Maria		iK		-					
THistory	inever				F.					
Executed Tasks					-					
C-Monitor Execution, C-Monitor Log Ha					=					
Watches History										
System Info	< Back Next >	Cancel								
Waiting Tasks History	Next Describle Execution									
Execution Fails	Wed, 22. Aug 2012, 14:40:00									
Modules logs	Execute from Wed, 8. Feb 2012 at 14:40:00									
C-BackupPlus Logs	Execute Every week in Wed									
C-Image Logs	Minimiter val between executions Automatic									
C-vmwBackup Logs	Command Line Modules/Descript/DescCons.exe Modules/Descript/complete.sds Mods/les/	istdescopl.xml -xml -e	of VLogsViestcomplete.sdf		-					

Image: Nastavenie pravidelného spúšťania úlohy

The interval, which you will enter is your required verification period. Notification about failure will be received immediately after the first recognition, that the files were not changed, so define such period, that you can be sure that the change already happened and the check won't run earlier.

Note: The first execution serves to remember the state, and the very execution is carried out after the second launch in order.

The next wizard windows are illustrated and described on the images below.



Monitoring of file changes Published on Customer Monitor (https://customermonitor.eu)

G ManitorConsole					x				
C-Monitor Tools Help	Schedul	er			5				
© Settings	🛛 🖸 🚺 🛃 🎘 💠 🕼 🗙 📾 🗸 🤤 🕨 🗠	Ele Edit 📓 🚴 🗢 🕼 🗙 🕸 🗸 😂 🗸 🖨 🍃 🗠 🖙 😳 🖓 Filiter 🕼							
GScheduler	C:\CMonitor\Cnf\ScheduleList.sdl	NCMonitor/Cnf/ScheduleList.adl							
Watches	Name / Command Line	Last Execution	Last Result		-				
	DescCons.exe complete.sds	Wed, 21:53:05	5 Elapsed Time: 0:00:22						
C-Monitor Runtime Information'	C-Descript for CM Complete - Differential	20. Aug 2012	DK.						
Waiting Tasks	DescCons.exe	Mon. 9.02.15	Elapsed Time: 0:00:18						
Hunning Lasks	A.A AU A A.A.A.		T9K.						
Watches Current Log	WatchDog	A	lapsed Time: 0:00:13						
C-Monitor Current Log			iK						
Emails	Descript Názov úlohy		lapsed Time: 0:01:37		- 1				
Emails from Tasks, Watches waiting to	nter Task Name		IK Japsed Time: 0:00:33						
Received, processed Emails		-			- 1				
Emails waiting for sending T,	ask. Name		lapsed Time: 0:01:40	View Log Filel					
Emails - All (without waiting for sending	Descript : Files WatchDog_Sledovanie_Vytváranie_SQL_záloh		w		- 1				
Sent Emails - C-Monitor System Met			lapsed Time: 0:00:41						
Sent Emails - User and System task			w		- 1				
Not Sent Emails - Disabled			lapsed Time: 0:00:00						
Not Sent Emails - Failed			IK.		-				
THistory					F.				
Executed Tasks					-				
C-Monitor Execution, C-Monitor Log Ha					=				
Watches History									
System Info	< Back Next >	Cancel							
Waiting Tasks History	Next Dessible Execution								
Execution Fails	Wed, 22. Aug 2012, 14:40:00								
Modules logs	Execute from Wed, 8. Feb 2012 at 14:40:00								
C-BackupPlus Logs	Execute Every week in Wed Min interval between executions Automatic								
C-Image Logs									
C-vmwBackup Logs	Command Line .Wodules/Descript/DescCons.exe .Wodules/Descript/complete.sds .VLogs/la	istdescopl.xml-xml-e	of.\Logs\lastcomplete.sdf		-				

Image: Nastavenie názvu úlohy



Monitoring of file changes Published on Customer Monitor (https://customermonitor.eu)

Ca MonitorConsole				83					
C-Monitor Tools Help	Scheduler								
Settings	Ele Edi 📓 À 🔶 🎥 🗙 😂 🗸 🍃 🕨 🕫	≃ ∲ ∛ Filter	cAb 👻						
Scheduler	C:\CManitor\Cnl\ScheduleList.sd								
Watches	Name / Command Line	Last Execution	Last Result						
Hatalba	C-Descript for CM Complete - Full	15. Aug 2012	DK.						
C-Monitor Runtime Information's	C Descript for CM Complete 102	Wed, 21:53:05	Elapsed Time: 0:00:22						
Waiting Tasks	Descript for CM Complete - Differential DescCons exe	20. Aug 2012 Mon. 9.0215	Elacerd Time: 0:00:18						
Running Tasks									
Watches State Files	WatchDog	×	Langed Time 0:00:13						
Watches Current Log			lapsed time, 0.00.15	_					
C-Monitor Current Log	Descript Spustenie pod iným		K IN ANY OF						
Emails	použivateľom		lapsed Time: 0.01:37						
Emails from Tasks, Watches waiting to	Run as another user (works only on Windows 2000 and later)		lapsed Time: 0:00:33						
Received, processed Emails	ser Name Domain		LL FILES COPIED	_					
Emails waiting for sending	dministrator		lapsed Time: 0:01:40 [View Log File]						
Emails - All (without waiting for sending			W.	_					
Sent Emails - C-Monitor System Met	assword Password Commanon		laged Time: 0:00:41						
Sent Emails - User and System tack									
Serk Emails - Responses to LM que			K Issued Time: 0.00.00						
Not Sent Emails - Disabled	Execution Conditions		lapsed time. 0.00.00						
Not Sent Emails + Paled			IK.	*					
(E) History				•					
Executed Tasks				<u>^</u>					
C-Monitor Execution, C-Monitor Log Ha				=					
Watches History									
System Info	< Back Next > Fi	inish Cancel							
Network Info									
Waiting Tasks History	Next Possible Execution		-						
Execution Fails	wed, 22. Aug 2012, 14:40.00								
Modules logs	Execute from Wed, 8. Feb 2012 at 14:40:00								
C-BackupPlus Logs	Min interval between executions Automatic								
C-mage Log:	0								
C-mmwBackup Logs	Command Line .Modules/Descript/DescCons.exe .Modules/Descript/complete.sds .l.o.	gs\iastdesccpl.xmi -xmi -e	of.VLogsVastcomplete.sdf	-					

Image: Spúšťanie úlohy pod iným používateľom



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MonitorConsole								
C-Monitor Tools Help	Scheduler							
🗢 Settings	Ele Edt 🔄 🏹 🔶 🐉 🗙 🕲 🖌 🤤 🕨 🗠	☆ & Filter	ab 👻					
Constant Scheduler	C:\CMonitor\Cnl\ScheduleList.sd							
Watches	Name / Command Line	Last Execution	Last Result					
	C-Descript for CM Complete - Full	15. Aug 2012	DK Elanced Time: 0:00:22					
C-Monitor Runtime Information's	C Description CM Constants - D'Manantial	Web, 21.33.03	Crapted Title: 0.00.22					
Waiting Tasks	C-Descript for LM Complete - Differential DescCons exe	20. Aug 2012 Mon. 90215	Elacord Time: 0:00:18					
Running Tasks	D OTOGOTINI OTO		Engrave Films, sous Fo					
Watches State	C-Descript for CM - Current User Details	20. Aug 2012	OK					
Watches Current Log	DescLons.exe	Mon. 10.33:53	Elapsed Time: 0:00:13					
C-Monitor Current Log	C-Descript Complete for archive	15. Aug 2012	OK					
The second secon	DescCons.exe complete for archive.sds	Wed, 9:53:21	Elapsed Time: 0:01:37					
Emails	C-Descript : Files WatchDog_Sledovanie_Vytváranie_SQL_záloh							
Emails from Tasks, Watches waiting for sending	DescCons.exe watchfiles120820163627112.ads							
Received, processed Emails								
Emails waiting for sending								
Emails - All (without waiting for sending)								
Sent Emails - L-Monitor System Messages								
Sent Emails - User and System tasks Hesuit:								
Sent Emails - Responses to LM queries								
Not Sent Emails - Disabled								
Not Sent Emails - Pailed								
(E) History			•					
Executed Tasks	Monitoring		<u>^</u>					
C-Monitor Execution, C-Monitor Log History	C Descript - Files Wetch Dem Claderer		ania COL adlata					
Watches History	C-Descript : Files watchDog_Siedova	nie_vytvar	anie_SQL_zaion =					
System Info	DescCops exe							
Network Info								
Waiting Tasks History	Next Possible Execution							
Execution Fails	Tue, 21. Aug 2012, 16:35:00							
Modules logs	Execute from Mon, 20. Aug 2012 at 16:35:00							
C-BackupPlus Logs	Execute Every day Min interval between executions Automatic							
C-Image Log:								
C-vmwBackup Logs	Command Line ./modules/descript/DescCons.exe ./modules/descript/watchfiles1208201636	27112.sds .VLogsVast	descflwd.xml-xml +					

Image: Úloha je úspešne pridaná do schedulera, zmeny potvrďte uložením

View of changed files on CM portal

The resulting report of changed files is displayed on CM portal, in the section Presentation and Evaluation -> Presentation -> Zones -> Monitored files. Here you can find overview of settings and also the log file of changed files.



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				*	i 🖬 🎫 👘	Úvodný prehľad	€ Kredit ? Man	ual 🔮 Odhiàsit'
	Admin zóna	Prehliadanie a Vyhodnotenie	Customer Desk	Communicator	1		Operátor: Meno	operàtora 🕜
- Zhair vleto 🔹 Rozhair vleto	🚦 Zóny							?
- Upozomenia		Spalainast	Počítač &	PoulSive	atel			
Poruchy	Retront chen	Openation .	Umiestnenie Terretii eedte	10 7	tata Mastara	Hladat	Boziirené	
História porúch	Sedovane subory	Operator	Zoradir podľa Co	- C - Zoradi	Violitupne	-	Hocarreno	
Poruchy na počítačoch		os	Zahrnúť ručne :	zadane počitače 🖾 Len	online počitače			
Zobrazenia	Zóna Sledované súbory	[zobrazené 2 položky]						🔳 🕯
Zini	Descript 1	1. DCISV005			2. DCIS	V04		
Watches (Online monitoring)	History	Shaw history			Show hi	itory		
Počítače	Network Name	CAMOO			TELEPC			
Online informácie	User	Canco Server			Server T	ELEPC		
Internet bandwidth monitor	Location	Nam. Slobody, rack u autorizerov			Rack u a	utorizêrov		U
Zmeny na počitači Foto dokumentácia	Task name	Dochadzka - sledovanie zmien s	uborov		Files W	fichDog - Linka 01 - Za	anam telefony ARMC	
- Hanalarché laternésie	Paths 1	C:/Program Files/Aktion/Stack/STAC	K.DBA		D'Backu	p101_**		
Manazerske informacie	Changed files 1	1	<u> </u>		41			
Reporty	Rules 1	4 ⁴⁴	Log zo sle	odovania				
Prenesené dáta na ADSL a FIV	Check subfolders 1	No			No			
	Log file 1	flexchanges 20120820 1735 234	2.bt		fieschar	gen 20120820 2145 0	78 1.bd	
			_					
	Descript 2	1. DCISV005			2. DCIS	V04		
	History	Show history			Show hi	dary.		-

Image: Sledovanie zmien súborov na CM portáli

Notification in errors

In errors (Presentation and Evaluation -> Warnings -> Errors), is information about failures in changes of the monitored files, which for instance notify about malfunction of backup or a camera system.

							Ħ	: 🖬 🖬	Úvodný s	orehilad 🛛 🗲 Kred	t ? Manual (9 Odhlásiť
	Ì	Admin zó	ina	Prehliadan Vyhodnote	lie a Inie	Customer Desk	Communicato	r		o	perátor: Meno operáto	° C
Zhalff viello 👘 Rozhalff viello	8	Por	uchy									?
Upozomenia	Spo	ločnosť -		Počitač &	nie	Poutivatef	Operator		Тур	•		
Parish				. Sedovani	é súbory					н	fadaf	
Historia poruch Poruchy na počítačoch		Kritický alan	m 🗹 Alarm	Varovanie	Bez chyby	Nedefinovaně 🗹 Blokovan	iē 🔄 Čakajúca na uz	avretie				
- Zobrazenia	Zozi	am poruch	iových stav	ov [zobrazené 4	polažky)					Potvrd	iť označené poruch	n 🔳 🛉
Zóny Watches (Online monitoring) Počítače Online informácie	x	• Id	Úroveň	Trvanie poruchy	Popis porucity	Názov ülohy z rozvrhu C-Monitora	Dátum posledných zmien alabo predpokladaný dátum ďaľšieho descriptu	CM-ID počitača	Meno počitača v sieti	Použivateľ	Spoločnosť	
Internet bandwidth monitor Zmeny na počítači Foto dokumentácia		13614221	•	2h 3m 28a	Sledovaně súbory - sledovanie zmies	C-Descript : Files WatchDog_Sledovanie_Vytv	Last changes - 11. Feb 2012 15:24:35	SEANDOS	JURAJ-HP	Juraj	E Services, s.r.o.	Detail
 Manažerské informácie Reporty 		13611264	•	1d 10h 0m 56a	Sledovaně súbory - sledovanie zmies	Files WatchDog na SQL zalohy	Last changes - 18. Aug 2012 17:35:21	SMASV03	SMARTSOL	SQL server pre QI	Bervice spoil sico.	Detail
Prenesené dáta na ADSL a FW		13601715	•	19d 15h 16m 40s	Sledovaně slibaní - sledovanie zmies	watchdog - załona- databaza-intranet - mesacna	Descript expected - 1. Aug 2012 20:17:27	PUTPE-18	PUTPCIA	backup pc	E Services, a.r.o. ⁵ ,	Detail
		13564714	•	46d 15h 32m	Sledovaně siltery -	WatchDog - Manu	Last changes - 4.	RCH5V01	PSCZE	Server DC, FS, DNS	HUB	Detail

Image: Zobrazenie chybných stavov sledovanie zmien súborov v poruchách Date: 03/03/2012External Links:

Logy z 3rd-party programov (externé programy) [1]Images:



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[11]

Links

[1] https://customermonitor.eu/node/573

- [2] https://customermonitor.eu/sites/default/files/1_31.png
- [3] https://customermonitor.eu/sites/default/files/3_19.png

[4] https://customermonitor.eu/sites/default/files/2_26.png

[5] https://customermonitor.eu/sites/default/files/6_16.png

[6] https://customermonitor.eu/sites/default/files/8_15.png

[7] https://customermonitor.eu/sites/default/files/9_13.png

[8] https://customermonitor.eu/sites/default/files/10_13.png

[9] https://customermonitor.eu/sites/default/files/11_15.png [10] https://customermonitor.eu/sites/default/files/log_0.png

[11] https://customermonitor.eu/sites/default/files/chyby 3.png