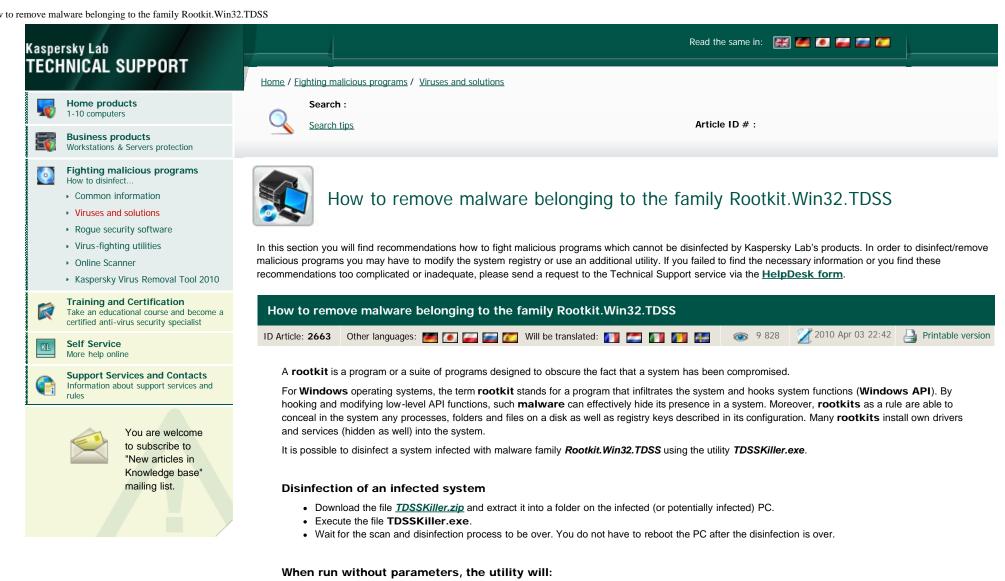
How to remove malware belonging to the family Rootkit.Win32.TDSS



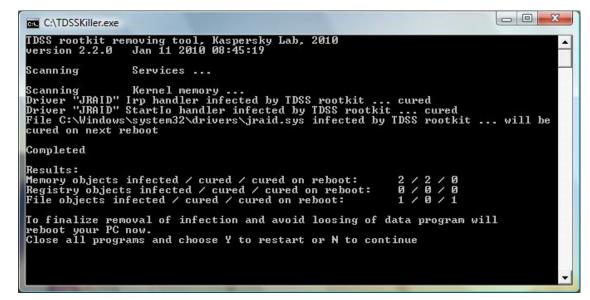
 The registry is scanned for hidden services. The utility will remove the services identified as belonging to TDSS. Otherwise, the user is prompted to eliminate the service. The services are eliminated upon a reboot.

C:\TDSSKiller.exe
TDSS rootkit removing tool, Kaspersky Lab, 2010 version 2.2.0 Jan 11 2010 08:45:19
Scanning Services RegNode HKLM\SYSTEM\ControlSet001\services\skynetsiuwmett infected by TDSS rootk
it will be deleted on reboot RegNode HKLM\SYSTEM\ControlSet003\services\skynetsiuwmett infected by TDSS rootk it will be deleted on reboot
File C:\Windows\system32\drivers\SKYNETitlexubh.sys infected by TDSS rootkit will be deleted on reboot
File C:\Windows\system32\SKYNETfuxxnbev.dll infected by TDSS rootkit will be deleted on reboot File C:\Windows\system32\SKYNETpvyxmwrq.dat infected by TDSS rootkit will be
deleted on reboot File C:\Windows\system32\SKYNETxewxdncb.dll infected by TDSS rootkit will be
deleted on reboot File C:\Windows\system32\SKYNETfprvbdvf.dat infected by TDSS rootkit will be deleted on reboot
Scanning Kernel memory
Completed
Results: Memory objects infected / cured / cured on reboot: 0/0/0 Registry objects infected / cured / cured on reboot: 2/0/2 File objects infected / cured / cured on reboot: 5/0/5
To finalize removal of infection and avoid loosing of data program will reboot your PC now. Close all programs and choose Y to restart or N to continue

• System drivers are scanned for infection. In case an infection has been detected, the utility will search for an available backup copy of an infected file.

If an available backup copy of an infected file has been detected, the utility will restore the file from it. Otherwise, the utility will attempt to disinfect the file.

- By default, the utility outputs runtime log into the system disk root directory (the disk where the operating system is installed, C:\as a rule). The log is like *UtilityName.Version_Date_Time_log.txt*. for example, C:\TDSSKiller.2.2.0_20.12.2009_15.31.43_log.txt.
- When its work is over, the utility prompts for a reboot to complete the disinfection. The driver will execute all scheduled operations and kill itself upon the next system reboot.



Command line parameters to run the utility TDSSKiller.exe

-I <file_name> - write log to a file.

- -v write a detailed log (must be used together with the -l parameter).
- -d <service_name> search for a specific malicious service name.
- -o <file_name> save a dump into the specified file. This dump is needed for analysis in case of problems with detection.

For example, if you want to scan the PC with a detailed log saved into the file *report.txt* (it will be created in the folder with **TDSSKiller.exe**), use the following command:

TDSSKiller.exe -l report.txt

Symptoms of an infection

• Symptoms of infection with Rootkit.Win32.TDSS first and second generation (TDL1, TDL2)

Experienced users may try to monitor the following kernel function hooks:

- IofCallDriver;
- IofCompleteRequest;
- NtFlushInstructionCache;
- NtEnumerateKey;
- NtSaveKey;
- NtSaveKeyEx.

Using the utility Gmer.

Туре	Name	Value	🔽 🔽 System
Code Code Code Code Code Library Service	8560C7F8 85786990 85785E26 856C6956 855E3DAD 85801186 C:\Windows\system32\dll.dll (*** hidden ****) @ C:\Windows\Syst C:\Windows\system32\drivers\gasfkyetixonpi.sys (*** hidden ****)	ZwEnumerateKey ZwFlushInstructionCache ZwSaveKey ZwSaveKeyEx IofCallDriver IofCompleteRequest	Image: System Sections Image: Sections

• Symptoms of infection Rootkit.Win32.TDSS third generation (TDL3)

An infection can be detected with utility Gmer. It detects replacement of a "device" object of the system driver atapi.sys.

Processes Modules Services Files Registry Rootkit/Malware Autostart CMD	
Type Name Value	🔽 🔽 System
AttachedD \FileSystem\fastfat \Fat filtmgr.sys (Диспетчер фильтров фай Device -> \Driver\atapi \Device\Harddisk0\DR0 83E1E369	Sections
Device -> \Driver\atapi \Device\Harddisk0\DR0 83E1E369	☑ IAT/EAT
	Devices
	Modules
	Processes
	✓ Threads
	✓ Libraries
	✓ Services
	🔽 Registry
	✓ Files
	 ♥ C:\ ■ D:\ ■ E:\ ■ F:\
	🔽 ADS
	🔲 Show all
	Scan
1	Сору
	Save
ОК	Cancel

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