### How to uninstall SQL Server 2008 Express SP1 from a Forefront TMG SP1 Update 2 Standard Edition Server

#### **Disclaimer:**

- I used one of my test machines for this procedure. Don't use this guide in your production environment!
- Create a backup of the entire Server before following the instructions in this guide
- Use this step by step guide at your own risk
- No warranties
- I think that this procedure is definitely NOT supported by Microsoft!!

### **TMG SQL Express Logging**



### **Check SQL services**

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🔍 SQL Active Directory Helper Service	Enables int		Disabled	Network S
🔍 SQL Server (ISARS)	Provides st	Started	Automatic	Local System
🔍 SQL Server (MSFW)	Provides st	Started	Automatic	Local System
🔍 SQL Server Agent (ISARS)	Executes j		Disabled	Network S
🔍 SQL Server Agent (MSFW)	Executes j		Disabled	Network S
🔍 SQL Server Browser	Provides S		Disabled	Local Service
🔍 SQL Server Reporting Services (ISARS)	Manages,	Started	Automatic	Local System
🔍 SQL Server VSS Writer	Provides th	Started	Automatic	Local System

#### Change logging to text file for Firewall and Webproxy service

Action	Firewall Logging Properties
Report Generati	on Warning
Aeport method databa	s cannot be generated with the currently selected logging d. To generate reports, use logging to SQL Server Express ises (on the local server).
	OK Cancel Options,
No query results ar	<ul> <li>File</li> <li>Format:</li> <li>W3C extended log file format</li> <li>Name: ISALOG_yyyymmdd_FWS_nnn.w3c</li> <li>Options</li> <li>Enable logging for this service</li> <li>If you are logging to a remote file or SQL database using a non-default port, in the System Policy Editor, enable the appropriate Remote Logging configuration groups.</li> </ul>
	OK Cancel Apply

## Restart TMG Server

## Uninstall SQL Server 2008 Express and Native Client

Programs and Features					
G 🕞 🗢 🖾 🔹 Control Panel 🔹 Al	Control Panel Items 🝷 Programs and Features		•	· 🛃	Search Programs and F
File Edit View Tools Help					
Control Panel Home	Uninstall or change a program				
View installed updates	To uninstall a program, select it from the list and the	en dick Uninstall, Change, or R	lepair.		
🍘 Turn Windows features on or off					
Install a program from the network	Organize 🔻				
	Name 🔺 🗸 🗸	Publisher	✓ Install	2 -	Version -
	AD LDS Instance ISASTGCTRL	Microsoft Corporation	14.11.2010		
	5 Microsoft .NET Framework 4 Client Profile	Microsoft Corporation	11.12.2010	38,8 MB	4.0.30319
	Kicrosoft .NET Framework 4 Extended	Microsoft Corporation	11.12.2010	51,9 MB	4.0.30319
	🖾 Microsoft Forefront Threat Management Gateway	Microsoft Corporation	14.11.2010	83,1 MB	7.0.7734
	B Microsoft Office 2003 Web Components	Microsoft Corporation	11.12.2010	46,0 MB	12.0.6213.1000
	📑 Microsoft SQL Server 2008 (64-bit)	Microsoft Corporation	11.12.2010		
	📑 Microsoft SQL Server 2008 Browser	Microsoft Corporation	11.12.2010	7,95 MB	10.2.4000.0
	📑 Microsoft SQL Server 2008 Native Client	Microsoft Corporation	11.12.2010	6,38 MB	10.2.4000.0
	Microsoft SQL Server 2008 Setup Support Files	Microsoft Corporation	11.12.2010	26,3 MB	10.2.4000.0
	📑 Microsoft SQL Server VSS Writer	Microsoft Corporation	11.12.2010	4,00 MB	10.2.4000.0
	u TrafficQuota	DigiRain Technologies LLC	21.12.2010		2.5 Beta

🎲 SQL Sei	rver 2008	X
ş îÎ	Add Choose this option to add features.	
1	Repair Choose this option to repair the product.	
2	Remove Choose this option to remove the product.	
Remove S	DI Server 2008	
Select 1	Instance	
Specify t	the instance of SQL Server to modify.	

Select Instance Select Features Removal Rules Ready to Remove Removal Progress Complete	Select the instance of SQL Server to remove. To remove Management Tools and shared features only, select "Remove shared features only" and then click next. Instance to remove features from: ISARS Installed instances:				
	Instance Name	Features	Version	Edition	
	ISARS	SQLEngine,RS	10.2.4000.0	Express with Advanced Services	
	MSFW	SQLEngine	10.2.4000.0	Express with Advanced Services	
			< Back Next >	Cancel Help	

묥 Remove SQL Server 2008		
Select Features The SQL Server features on this of	computer are shown below. To remove a feature, select t	the checkbox next to the feature name.
Select Instance Select Features Removal Rules Ready to Remove Removal Progress Complete	Features: ISARS P Database Engine Services Reporting Services Shared Features SQL Client Connectivity SDK Redistributable Features Select All Unselect All	Description:
		< Back Next > Cancel Help

Repeat this step for the MSFW SQL instance

### Check SQL program uninstallation



### Reboot the TMG Server

### **Delete SQL program folders**

Go to C:\Program Files Delete the folder "Microsoft SQL Server" Go to C:\Program Files (x86) Delete the folder "Microsoft SQL Server"

## Check uninstalled SQL services - great

🔍 Smart Card	Manages a		Manual	Local Service
🎑 Smart Card Remov	Allows the		Manual	Local System
SNMP Trap	Receives tr		Manual	Local Service
Software Protection	Enables th		Automatic (D	Network S
🔍 Special Administrati	Allows adm		Manual	Local System
SPP Notification Ser	Provides S		Manual	Local Service
SSDP Discovery	Discovers		Disabled	Local Service
System Event Notifi	Monitors s	Started	Automatic	Local System
🔍 Task Scheduler	Enables a	Started	Automatic	Local System
CP/IP NetBIOS He	Provides s	Started	Automatic	Local Service
🔍 Telephony	Provides T	Started	Manual	Network S

After the SQL 2008 Express uninstallation, the Forefront TMG Log queue fills up  $\ensuremath{\mathfrak{B}}$ 

	Reporting				Tasks Help
Status	1	1	1	×	
			Refresh		Logging Tasks
General Log Sta	hus				T Edit Filter
Logging status:	Disc	onnected (no conne	ction to database)		Start Query
		•			
Database updati	ed up to: 23.1	12.2010 17:44:33			Configure Logging
.og queue total	(KB): 893	КВ			Configure Firewall Logging
					Configure Web Proxy Logging
erver Log Status	:				Configure Log Queue
Server	Updated Up To	Log Queue (KB)	Status	т	
TMG-EN	23.12.2010 17:44:33	893 KB	Disconnected		Related Tasks
					View Log Status
					A Define Log Text Colors
					A Denne Log Text colors
					Save Filter Definitions
					Save Filter Definitions
			Close		Save Filter Definitions  Composition  Composition  Clipboard

We will look back later ©

Services error 😕

erver 🔺	Service	Status	Service Uptime	
🛛 🙆 Reporting	Services Group			
🚫 TMG-EN	SQL Server (ISARS)	Unavailable		
🐼 TMG-EN	SQL Server Repo	Unavailable		
🐼 TMG-EN	Microsoft Forefro	Unavailable	00:18:02	
🚫 TMG-EN	Microsoft Forefro	Unavailable	00:00:00	
🐼 TMG-EN	Microsoft Forefro	Unavailable		

#### We will look back later $\ensuremath{\textcircled{}}$

#### TMG configuration sync error

I hreat Management Gateway 2010	Standard
Alerts Sessions Connectivity Verifiers Services Configuration	

#### **Configuration Status**

Configuration status monitors the version of the configuration used by the Microsoft Forefront TMG Firewall Service on each array member and compares it to the version in the configuration store.

Server	Status	Last Updated	Description
🙆 TMG-EN	Error		Forefront TMG Management cannot establish a connection with the Forefront

We will look back later 🙂

#### **Repair installation**

Before I tried a repair installation I had a look into the Forefront TMG configuration and there are lots of errors, so I decided to do a repair installation of Forefront TMG

Microsoft Forefront TMG Installation Wizard		<u> </u>			
The Installation Wizard is prog	ressing as follows:			<b>-</b>	Search Programs and Feature
Core Components (Estimated T     Additional Components (Estimated T	<b>ime: 5 minutes)</b>		ı dick Uninstall, Change, or Repair.		
System Initialization (Estimated Time	Hicrosoft Fore Program Maint	front TMG Installation	n Wizard	×	▼         Version         ▼
	Repair or remov	ve the program.			MB 4.0.30319 MB 4.0.30319 MB 7.0.7734
🔁 Microso 🔞 Traffict	• Repair	Repair installation errors corrupt files, shortcuts,	s in the program. This option fixes missing or and registry entries.		MB 12.0.6213.1000 2.5 Beta
	C Remove	Remove Microsoft Forei computer.	front Threat Management Gateway from your		
			< Back Next > Canc	el	

## Error 🛞

	🖶 Microsoft Forefront TMG Installation Wizard							
1	⚠	Error 1921.Service Microsoft F (isactrl) could not be stopped. sufficient privileges to stop sy	Forefront TMG Control Verify that you have stem services.					
l								
:		Detry	Cancel					
1		Reuy	Cancel					

Set the startup of this service to Disabled

Reboot the TMG Server

Try the uninstallation again

Error

Microsoft For	efront TMG Installation Wizard	1		
•	The Installation Wizard is progressing as follows:			-
~	Core Components (Estimated Time: 5 minutes)	n dick Uninstall, Change, or Rej	pair.	
<ul> <li>✓</li> </ul>	Additional Components (Estimated Time: 12 minutes)			
×	System Initialization (Estimated Time: 2 minutes)	Publisher	+ Install +	Size
		Microsoft Corporation	14.11.2010	
		Microsoft Corporation	11.12.2010	38,8
	🌄 Microsoft .NET Framework 4 Extended	Microsoft Corporation	11.12.2010	51,9
	🔤 Microsoft Forefront Threat Management Gateway	Microsoft Corporation	14.11.2010	83,1
	B Microsoft Office 2003 Web Components	Microsoft Corporation	11.12.2010	46.0
	🔞 <sub>Traffi</sub> 🔕 Microsoft Forefront TMG			×
	The Microsoft Forefront TMG service	es cannot be started. Please try	restarting the com	puter.
			0	<

...but all TMG services are started

Microsoft Fibre Channel Platform Regist	Registers t		Manual	Local Service
🎑 Microsoft Forefront TMG Control	Controls F	Started	Automatic	Local System
🎑 Microsoft Forefront TMG Firewall	Provides F	Started	Automatic	Network S
🥋 Microsoft Forefront TMG Job Scheduler	Runs Foref	Started	Automatic	Local System
Microsoft Forefront TMG Managed Control	Controls F	Started	Automatic	Local System
🔍 Microsoft Forefront TMG Storage	Provides F	Started	Automatic	Local System
A Martin A COOL Talkahar Canadar	Manage T		Manual	Level Content

So we can ignore the error message (my assumption is that TMG means the uninstalled SQL services)

Reapply TMG SP1 and all hotfixes

Reboot the TMG Server

Log Queue is fine

Log Status				×
			¢	Refresh
General Log Statu	s			
Logging status:		Ready (logging to da	atabase)	
Database updated	up to:			
Log queue total (K	B):	0 KB		
Server Log Status:				
Server	Updated Up To	Log Queue (KB)	Status	
🛃 TMG-EN		0 KB	Ready	
				Close

## Configuration status is fine

Configuration status monitors the version of the configuration used by the Microsoft Forefront TMG Firewall Service on each array member and compares it to the version in the configuration store.         Server       Status       Last Updated       Description	Alerts Sessions Connectivity Verifiers Services Configuration				
Server Status Last Updated Description	Configuration status monitors the version of the configuration used by the Microsoft Forefront TMG Firewall Service on each array member and compares it to the version in the configuration store.				

## Check TMG Server Dashboard for errors

A lot of errors regarding the uninstalled SQL Server 2008 SP1 Express installation  $\ensuremath{\mathfrak{S}}$ 

🖃 🔇 Reporting Services - Service Initialization Failure	23.12.2010 19:31:39		
Reporting Services - Service Initialization Failure	23.12.2010 19:31:39		
🖃 🐼 Reporting Services Configuration Failure	23.12.2010 19:31:56		
Reporting Services Configuration Failure	23.12.2010 19:31:56		
	23.12.2010 19:32:10		
	23.12.2010 19:39:58		
	L.		
Alert Information			
<b>Description:</b> SQL Server Reporting Services could not be configured for Forefront TMG. Restarting the Microsoft Forefront TMG Job Scheduler service may resolve this issue. Reporting Services error information: [DBNETLIB][ConnectionOpen (Connect()).]SQL Server does not exist or access denied.			
The failure is due to error: Unspecified error			

SQL Reporting service error

Solution: Disable Report generation

Reporting Properties			×
Log Summary Report Server			
Enable daily and monthly summaries			
Data used to generate reports is saved daily. Specify time and the number of saved summaries;	the gen	eration	
Generation time: 00:30:4	1	*	
Number of saved daily summaries:	35	* *	
Number of saved monthly summaries:	37	* *	
OK Cancel		Apply	

Forefront TMG Job Scheduler error

😑 🐼 Reporting Services Configuration Failure	23.12.2010 17:58:04
Reporting Services Configuration Failure	23.12.2010 17:58:04
😑 🛕 Log formatting failure	23.12.2010 18:03:26
Log formatting failure	23.12.2010 18:03:26
🗉 🚫 Alert action failure	23.12.2010 18:05:31

<u>ــــــــــــــــــــــــــــــــــــ</u>	
Alert Information	
Description: SQL Server Reporting Services could not be the Microsoft Forefront TMG Job Scheduler service may information: [DBNETLIB][ConnectionOpen (Connect()).]	be configured for Forefront TMG. Restarting resolve this issue. Reporting Services error SQL Server does not exist or access denied.
The failure is due to error: Unspecified error	

## Solution:

Uninstall the Forefront TMG Job Scheduler service

Microsoft Forefront TMG	Job Scheduler Properties (Local Computer)
General Log On Recov	ery Dependencies
Service name: isasch	ed
Display name: Micros	oft Forefront TMG Job Scheduler
Description: Runs accorr	Forefront Threat Management Gateway jobs
Path to executable: ram Files\Microsoft Forefr	ont Threat Management Gateway\W3Prefch.exe",
Startup type: Auton	natic
Help me configure service	e startup options.
Service status: Started	ł
Start	Stop Pause Resume
You can specify the start from here.	parameters that apply when you start the service
Start parameters:	
	OK Cancel Apply

🙀 Registry Editor					
File Edit View Favorites Help					
🗄 🕒 Filetrace	Name	Туре	Data		
🕀 🔒 flpydisk	ab (Default)	REG_SZ	(value not set)		
🗄 🕒 FltMgr	ab DependOnService	REG_MULTI_SZ	isactrl		
🗄 🤚 FontCache	ab Description	REG SZ	Runs Forefront Threat Management Gateway jobs acc		
🗄 🎍 FontCache3.0.0.0	ab DisplayName	REG SZ	Microsoft Forefront TMG Job Scheduler		
🕀 🕌 Forefront TMG Ema	30 ErrorControl	REG DWORD	0x00000001(1)		
🕀 🦺 Fs_Rec	ab ImagePath	REG EXPAND SZ	"C:\Program Files\Microsoft Forefront Threat Managem		
🕀 🚽 FsDepends	ab ObjectName	REG SZ	LocalSystem		
E. FwEng	300 Start	REG DWORD	0x0000002 (2)		
twsrv		REG_DWORD	0x00000010 (16)		
gagp30kx	1-001 - 1942	120_0110100			
the gpsvc					
H323FLIR					
HUAUGBUS					
Hidueb					
Hubb					
E hypolicy					
+ i8042prt					
IAS					
iaStorV					
🗄 🛄 idsvc					
🗄 🛄 iirsp					
🗄 🛄 IKEEXT					
🗄 🕛 inetaccs					
🗄 🖳 intelide					
🕀 🎍 intelppm					
ioatdma					
IpFilterDriver					
isapop					
	<u> </u>				
umputer\HKEY_LOCAL_MACHINE\\$YSTEM\CurrentControlSet\services\isasched					

Alert action failure

🖃 🔞 Alert action failure	23.12.2010 18:05:31		
Alert action failure	23.12.2010 17:57:50		
Alert action failure 23.12.2010 17:			
Alert action failure	23.12.2010 17:57:55		
Alert action failure	23.12.2010 17:58:04		
Alert action failure	23.12.2010 17:58:08		
Alert action failure	23.12.2010 17:58:11		
Alert action failure	23.12.2010 17:58:22		
Alert action failure	23.12.2010 18:03:28		
Alert action failure 23.12.2010 18:05			
•	•		
Alert Information			
Description: One or more of the actions associated with alert Reporting Services Configuration			
Failure has failed, due to configuration settings. The mail server may be down, or the specified			
command may not exist. Check for related errors and fix them accordingly.			

# Solution: Remove the appropriate alert definitions

🔣 🗹 🔔	RADIUS Server Unavailable	Firewall Service	
🛛 🛛 🎯	Report Job Generation Failure	Firewall Service	
🛛 🖸 🔇	Report Summary Generation Failure	Firewall Service	
🛛 🖸 🔇	Reporting Services - Service Initializ	Firewall Service	
🛛 🗹 🔔	Reporting Services - Service Shutdo	Firewall Service	
📃 🗹 🧕	Reporting Services Configuration F	Firewall Service	

Reset the alerts in the Forefront TMG MMC and restart the TMG Server again

### After reboot – great!

Alerts Sessions Connectivity Verifiers Services Configuration				
Alert	Latest 🔺			
$oxed{ imes}$ (j) Network Inspection System Signature Set Loading Succeeded	23.12.2010 19:48:16			
① Malware Inspection Definitions Loaded	23.12.2010 19:48:46			
± (i) Service Started	23.12.2010 19:56:23			

But ... the services error is not gone  $\textcircledin$ It seems that something blocks displaying the status of the TMG Services. The Service Uptime counts for the TMG Firewall service and all services are started in the services MMC and Forefront TMG works as expected after this patch process.

meat management outerray 2020						
Alerts Sessions Connectivity Verifiers Services Configuration						
Server 🔺	Service	Status	Service Uptime			
😑 🔇 Reporting	g Services Grou	р				
🐼 TMG-EN	N SQL Server (IS	ARS) Unavailable				
🐼 TMG-EN	N SQL Server Rep	po Unavailable				
🚫 TMG-EN	Microsoft Foref	fro Unavailable	00:02:39			
🔇 TMG-EN	Microsoft Foref	fro Unavailable	00:00:00			
🐼 TMG-EN	Microsoft Foref	fro Unavailable				

**Solution**: I didn't find a solution. I tried to find the specific settings with ADSIEDIT but without luck but you as the reader may find a solution S

Connect to the TMG Storage

Connecti	ion Settings	×
Name:	TMG Storage	
Path:	LDAP://TMG-EN:2171/CN=FPC2	-
Conne © Se	ction Point elect or type a Distinguished Name or Naming Context:	
	CN=FPC2	
O Se	elect a well known Naming Context:	
	Default naming context	
Compu	iter	1
• Se	elect or type a domain or server: (Server   Domain [:port])	
	TMG-EN:2171	
O De	efault (Domain or server that you logged in to)	
🗌 Us	se SSL-based Encryption	
Advand	ced OK Cancel	

**Result**: AFAIK there is no supported way to uninstall the Microsoft SQL Express version on a Forefront TMG Server so I don't recommend using any procedures to remove the SQL Server Express installation