

ApplicGate Update Guide

1 Preface

Any software shall be accompanied by documentation of the secure update methods to prevent exploitation of known vulnerabilities.

ApplicGate offers various update schemas to fix any vulnerabilities in time. Updates can be triggered manually or started automatically depending on the needs of the specific installation.

ApplicGate is upwards compatible since years. ApplicGate consists of one file (.exe or .dll). All necessary software is embedded in this file.

To install the latest updates the actual running ApplicGate.exe or ApplicGate.dll file must be renamed, the new ApplicGate.exe or ApplicGate.dll must be copied and ApplicGate must be restarted. The service interruption lasts only a few seconds.

2 Update Options

There are various options to update ApplicGate. Chose one that fits your needs.

To download updates by ApplicGate an autologon routing entry with the keyword UPDATE must be configured. See <https://help.applicgate.com/helpmeUP.htm>

Notes:

- All examples of routing entries are configured for IPv4 and IPv6:
GatewayIP and GatewayIP2 are "*:::"
- You can use "Configuration/New Route (free text)" to configure the routing entries.
If you copy/paste the examples below don't forget to remove the line breaks (if any).

2.1 Manual Installation

- Get the latest version of ApplicGate via the web page www.applicgate.com
You can get a download link via "DOWNLOAD TESTVERSION".
Download ApplicGate48.zip (.NET Framework 4.8) or ApplicGate100.zip (.NET 10.0).
- Unpack the .zip file.
- Rename the file ApplicGate.exe or.dll of the running process.
- Copy the new file ApplicGate.exe or.dll to the ApplicGate installation folder.
- Restart ApplicGate via the command interface
or schedule a restart (see Tools/Update & Restart).

2.2 ApplicGate downloads the latest version of ApplicGate

In any cases the old files will be renamed with a timestamp appended (e.g. ApplicGate.exe_2026-03-18_171307_old) so that you can revert to the old version in case of errors.

2.2.1 Manual Download and Restart

- Configure a route at your ApplicGate installation:
`autologon;;;*,:;;download.applicgate.com;447;;UPDATE,SSLTARGET:download.applicgate.com;;;`
- If you look at this route via the management interface of ApplicGate you will see the keyword UPDATE as hyperlink:

Source IP	Gateway IP	Gateway Port	Gateway IP2	Destination IP	Destination Port	Expiration	Type
autologon	*	*	* ..	download.applicgate.com	447	*	UPDATE,SSLTARGET:download.applicgate.com

- When you click this link, a download of the latest version of ApplicGate will be started from <https://download.applicgate.com:447> (official distribution of ApplicGate in the Internet).
- If there is a newer version available:
 - ApplicGate.exe or ApplicGate.dll will be downloaded to a temporary subdirectory
 - For test, the file will be executed, and the file version will be read.
- Example:

The screenshot shows the ApplicGate management interface with a dark navigation bar at the top containing: Home, Configuration, Status, Logfiles, Test, Tools, Help, Stop & Restart. The main content area displays the following text:

```
Ready for restart (files not moved so far):
UpdateHttpRequest = HTTP/1.1 200 OK
UpdateFilename = C:\ApplicGate\2026-03-19_181623_55\ApplicGate.exe
UpdateExitCode = 4
UpdateBuilt = Built for .NETFramework,Version=v4.8
UpdateVersion = Version 13.0.9574.32788 reinhold.leitner@applicgate.com (C) March 2026
Issuer of Signature Certificate: CN=Sectigo Public Code Signing CA R36, O=Sectigo Limited, C=GB
Subject of Signature Certificate: CN=ApplicGate Network Security e.U., O=ApplicGate Network Security e.U., S=Oberösterreich, C=AT
```

Below the text, there are two blue hyperlinks: [Move files](#) and [Move files and Restart](#). A mouse cursor is hovering over the second link, and a tooltip box appears with the text: "Move .exe files and restart immediately!".

- Now you have the option to move the files (rename the running file and move the new file) and Restart or just move the files and restart later (e.g. schedule a restart).

2.2.2 Scheduled Download with automatic Restart

To fully automate an update, configure the UPDATE keyword like following example:

- UPDATE:autorestart!!03:00
At 03:00 the availability of a new version will be checked.
If a new version could be downloaded, the files will be moved and ApplicGate will restart.

2.2.3 Scheduled Download with manual Restart

- UPDATE:auto!!03:00
At 03:00 the availability of a new version will be checked.
If a new version could be downloaded, the files will be moved.
- Restart must be done manually, see notification in the home window:

A new Update has been downloaded, please [Restart](#)

Home

TCP/UDP connections: 2

2.2.4 Additional Switches in Keyword UPDATE

UPDATE:auto[restart][!Switches]

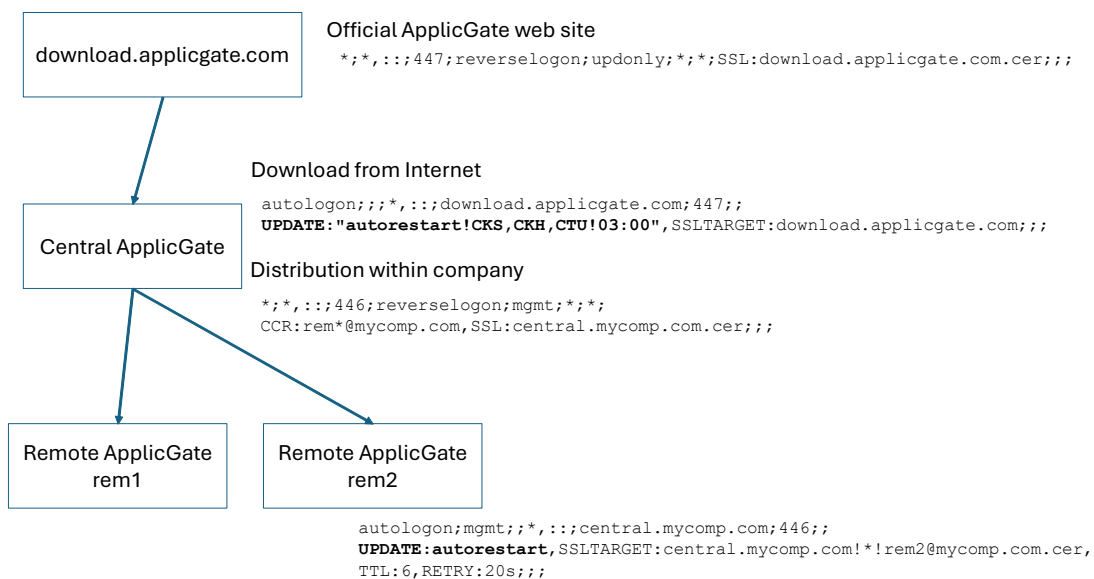
UPDATE:auto[restart]!Switches!TimeOfDay

Switches (separated by ,):

- CKS ... optional switch to check the signature of the downloaded file by PowerShell (only if running on Windows)
Note: Access to the Internet is necessary, because the revocation list of the certificate that has been used for signing must be retrieved (e.g. <http://crl.sectigo.com>...)
- CKH ... optional switch to check the hash of the downloaded file
The correct hash is retrieved from download.applicgate.com and compared with the actual SHA256 hash of the file. Please ensure that this link is accessible.
- CTU[~directory] ... optional switch to copy the downloaded file(s) to the subdirectory **Update** with filename format as shown below
If *directory* does not exist or if it is not specified, the default directory will be used. The subdirectory **Update** will be created if it does not exist.
The downloaded file can be distributed by ApplicGate (see below).

2.3 A central ApplicGate installation at the customer distributes ApplicGate

- The central ApplicGate installation, that has access to the Internet, downloads the newest version of ApplicGate to the subdirectory **Update** using the keyword UPDATE, e.g.
autologon;;;*,::;download.applicgate.com;447;;
UPDATE: "autorestart!CKS,CKH,CTU!03:00",SSLTARGET:download.applicgate.com
- Remote ApplicGate installations, that have autologon connections to the central ApplicGate, configure the autologon route with the keyword **UPDATE:autorestart**
- Example:



- If the central AppicGate downloads a new version, it will restart.
- At the remote AppicGate installations the autologon connection will terminate and reconnect after 20 seconds. Then the availability of a new version will be checked, the new version will be downloaded and the remote AppicGate will restart.
- → Within seconds all AppicGate installations are updated.

2.3.1 Updating .exe and .dll Files

AppicGate downloads the newest AppicGate version only for the same .NET version (where it is running).

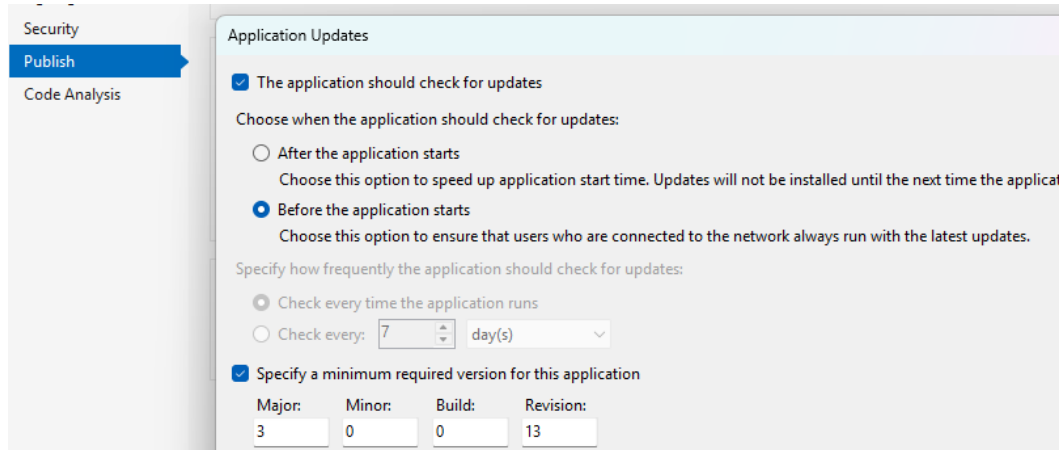
If you would like AppicGate on Windows to distribute AppicGate files for different .NET versions proceed like following example:

- There is a central AppicGate installation for .NET Framework 4.8 installed in directory C:\AppicGate
- Install AppicGate for .NET 10.0 in a different directory
- Configure an autologon route with keyword UPDATE”
`autologon;;;*,:;download.applicgate.com;447;;`
`UPDATE:"autorestart!CKS,CKH,CTU~C:\AppicGate!02:30",SSLTARGET:download.applicgate.com;;;`
- Now a new AppicGate.dll file will be copied to C:\AppicGate and can be distributed by the central AppicGate installation.

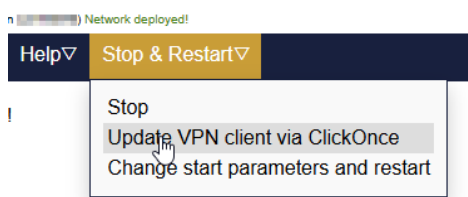
2.4 VPN-Client (ClickOnce):

- Updates are available from AppicGate and must be copied to the ClickOnce installation folder.

- In Visual Studio ClickOnce can be configured to update the program at start:

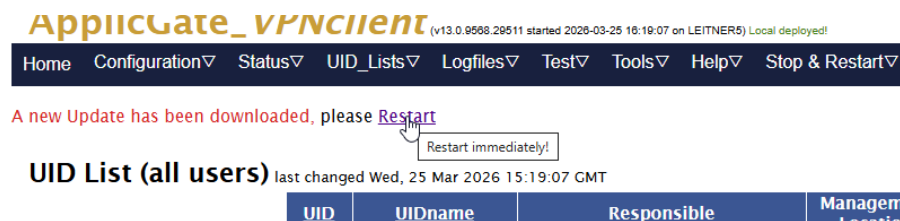


- Additionally, the user can check if new versions are available:



2.5 VPN-Client (local deployed):

- Updates must be available at the central ApplicGate installation (see above).
- Automatic update after start can be configured:
Insert the line
`update=auto!CKS,CKH`
or
`update=auto`
into the file `ApplicGateClient.ini` or into the central policy (`ApplicGate.policy`).
- After a new version has been downloaded the user will get a message:



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