

Documentation

WuInstall

Manage Windows Updates

<http://www.wuinstall.com/>

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WuInstall is a command line tool that makes it possible to install Windows Updates on demand. This gives you full control over the patching process. You decide what patches should be applied when and on which machine.

Depending on the System configuration it uses, based on the Windows Update API, either the intern WSUS server or the extern Microsoft Update Server to look for available updates. Afterwards those can be downloaded and installed.



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WuInstall Options

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Basic Options

Contents

[/search](#)
[/download](#)
[/download to directory](#)
[/install](#)
[/uninstall](#)

/search

Searches for available updates using the windows update API. If no criteria (see [/criteria](#)) is specified, it searches for not already installed updates (IsInstalled=0 and Type='Software'). Drivers are not included in the default /search option!

If the use of a WSUS is configured (this is the case when HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Microsoft\Windows\WindowsUpdate\AU\UseWU Server is set to 1), it uses the configured WSUS Server (which is set with HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Microsoft\Windows\WindowsUpdate\WU Server) to get the list of updates matching the criteria. Otherwise (when UseWU Server is set to 0), it goes directly to the Microsoft Update Site.

If there is a WSUS Server configured, WuInstall will report for example:

```
You are using WSUS Server http://wsus.mycompany.local:8530
```

Otherwise, when going to the Microsoft Update Site, it will report:

```
You have no WSUS Server configured
```

It is possible to temporarily set, reset or change the use of a WSUS for the execution time of WuInstall, see [/bypass_wsus](#) and [/use_wsus](#).

The search for updates will start with the message

```
Searching for updates ... Criteria: IsInstalled=0 and Type='Software'
```

and will ask either the WSUS or the Microsoft Update Site for a list of available updates matching the criteria. If the criteria is invalid, WuInstall will print "Invalid criteria" and exits here, returning code 4.

Sometimes, the search might fail for some reason, in case of an error WuInstall tries the search automatically a second time. If the search fails once more, WuInstall exits with return code 1 and also displays the error code for the reason why the search failed:

```
Search failed ... retrying ...Search failed 2 times.  
Result CODE: 0x0 0x8024402C - The proxy server or target server name cannot be  
resolved.
```

If the search was successful, WuInstall types:

```
Result Code: Succeeded
```

If no updates were found, it will report:

```
No Updates are available, nothing to do!
```

and exit with return code 2.

If updates were found, it will display the total number of updates found:

```
10 Updates found in total, filtering ...
```

Now, the updates are filtered, if there are filters specified. For details on filtering see the following options: [/severity](#), [/classification](#), [/product](#), [/match](#), [/nomatch](#), [/matchfile](#), [/nomatchfile](#), [/isdownloaded](#)

If no update matches the filters, Wulninstall will report:

```
No Updates available for specified match string / severity / product!
```

and exit with return code 3.

When there are updates which match the filters they are displayed in a result list like this:

```
1. Definition Update for Microsoft Forefront Client Security - KB977939
   (Definition 1.87.1797.0)
   Severity: Unknown
   UpdateClassification - Definition Updates
   Product - Forefront Client Security
```

The first line contains the position and the complete name of the update, afterwards the severity, classification and product are displayed.

When using the `/search` option, after listing the updates, Wulninstall exits with code 0, without any further action.

only `/search` was specified, stopping here!

So this option is useful for just checking which updates are available (and, for example, with the criteria `"IsInstalled=1"` also for checking which updates are already installed) or for testing search criterias and filter options before downloading and installing.

/download

The `/download` option first of all executes a search (exactly the same one the `/search` option does, considering all parameters for criterias and filters).

If there are entries in the result list (updates, matching the criterias and filters, were found), it immediately starts downloading them (either from WSUS or the Microsoft Update Site), displaying:

```
Downloading updates ...
```

The updates are downloaded in exactly the same order in which they are displayed after the search.

When starting the download, Wulninstall displays:

```
Downloading Definition Update for Microsoft Forefront Client Security - KB977939
(Definition 1.87.608.0):
```

It is possible to track the download progress (see the [/show_progress](#) option).

Updates, which already have been downloaded (they can be excluded in the result list of the search with the `/isdownloaded` option), are usually not downloaded again, so the download is "finished" immediately.

WuInstall usually (depending on OS version and system configuration) caches the downloads in the directory `Windows\SoftwareDistribution\Download`. Using the [/download_to](#) option instead of `/download`, it is also possible to put exe / msi of the downloaded updates to a certain directory for manual installation.

When the download of an update fails for some reason, WuInstall displays

```
Download failed!
```

and the error code and reason why the download failed. WuInstall then immediately exits with return code 1 without downloading the subsequent pending downloads in the result list.

When all updates in the result list have been successfully downloaded, WuInstall displays

```
Downloading finished, listing downloaded updates and counting...
Result Code: Succeeded
only /download was specified, stopping here
```

and exits with return code 1.

/download_to_directory

Available in WuInstall Pro

It does almost exactly the same as `/download`, but furthermore this option copies the updates to the specified directory, usually in msi or exe format.

These updates can be installed manually afterwards.

After downloading an update to the update cache (usually `Windows\SoftwareDistribution\Download`), WuInstall displays for example

```
Copying download to c:\my_updates...
```

and displays an "OK" if successful, otherwise an error code.

Most updates are update bundles, which means there are multiple sub-updates, each will create a separate installation file in the directory.

WuInstall will display for each bundle:

```
Copying bundle .NET 4 Client x86 (Win7) .... OK
```

With update bundles it is quite likely to have more installation exe / msi files than updates.

If copying an update file to a directory fails, WuInstall just displays the error code like this:

```
Copying bundle Microsoft .NET Framework 4 Client Profile Language Packs x86 ....
Error: 0x80246007
```

but it does not force WuInstall to abort the entire process, it continues with the next update in the result list (or the next sub-update in the bundle) in any case.

The option `/download_to` can also be used to copy updates which are already in the download cache to a directory (with `/isdownloaded 1`).

/install

This option first executes exactly the same as `/download` (=searching and downloading updates) and then starts installing the downloaded updates.

Before installation, the downloaded updates are listed and checked if they have been downloaded properly and if they are ready to be installed. Furthermore, it is listed if the Eula is known ("Eula Accepted: true") - otherwise, see [/autoaccepteula](#) option.

This looks for example like this:

```
Install was specified. Beginning Install
Portuguese (Brazil) Language Pack - Windows 7 (KB972813), Eula Accepted: true
Danish Language Pack - Windows 7 (KB972813), Eula Accepted: true
1 Updates are ready to be installed!
Beginning install ...
```

Now, the installation starts, all updates are installed in one single step. It is possible to track the installation progress (see the [/show_progress](#) option).

If the installation fails for some reason, Wulninstall prompts

```
Install failed!
```

and immediately exits with code 1 and shows the error code.

In case the installation ran through, Wulninstall enumerates the result for every single update and finally the overall result code:

```
Enumerating result for every single update
1. Portuguese (Brazil) Language Pack - Windows 7 (KB972813): Result Code: Succeeded
2. Danish Language Pack - Windows 7 (KB972813): Result Code: Succeeded
Overall Result Code: Succeeded
```

Afterwards, it is checked if one or more updates need a reboot.

```
Install or Download finished, reboot required: NO
```

If yes, Wulninstall exits with code 10, otherwise with code 0.

/uninstall

Available in Wulninstall Pro

This option uninstalls updates from a machine.

The `/uninstall` option automatically searches for already installed updates offline (see [/offline](#) option) with the criteria "IsInstalled=1" and uninstalls them. All filter options (e.g. [/match](#), [/product](#), [/severity](#), ...) are available to specifically select updates to be uninstalled.

Typing just WuInstall /uninstall without any filter options is not advised!

For example, to uninstall KB2251419 use:

WuInstall.exe /uninstall /match KB2251419

```
You are using WSUS Server http://mywsus.local:8530

Searching offline for already installed updates...

Searching for updates ... Criteria: (IsInstalled=1)
Result Code: Succeeded

96 Updates found in total, filtering ...
Listing those matching search expression: 'KB2251419'

1. Security Update for Microsoft Office Word 2007 (KB2251419)
  Severity: Critical
  Product - Office 2007
  UpdateClassification - Security Updates

Uninstalling Updates ... Successful
Enumerating result for every single update
1. Security Update for Microsoft Office Word 2007 (KB2251419): Result Code:
Succeeded

Overall Result Code: Succeeded
```

The /uninstall option only works with updates which have been installed using a WSUS.

Otherwise it usually gives the error code 0x80240028 - WU_E_UNINSTALL_NOT_ALLOWED (The update could not be uninstalled because the request did not originate from a WSUS Server).

There are also some updates which fail to be uninstalled with WuInstall because of internal dependencies.

Reboot / Shutdown Options

Contents

[/reboot \[nseconds\]](#)
[/reboot_if_needed \[nseconds\]](#)
[/rebootcycle \[ntimes\]](#)
[/reboot_force](#)
[/shutdown \[nseconds\]](#)

/reboot [nseconds]

This option initiates a system reboot with a delay of the specified number of seconds (nseconds) after the execution of WuInstall.

If no time is specified, 10 seconds are used by default.

At the start of WuInstall execution, the message

```
/reboot specified, system reboots after WuInstall with 10 seconds delay
```

is displayed. WuInstall is executed according to the specified parameters (also, just WuInstall /reboot alone is possible), and after the execution of WuInstall, the message

```
Rebooting after 10 seconds ...
```

is displayed. WuInstall exits with return code 5 and the system will reboot after the specified delay in ANY CASE, regardless of the outcome of WuInstall.

If initiating the reboot fails for some reason, the error code is displayed

```
Reboot failed, Error Code: 1271
```

and WuInstall exits with code 6.

/reboot_if_needed [nseconds]

Available in WuInstall Pro

Does exactly the same as /reboot, the only difference is that a reboot is triggered only when a reboot is required (when it exits with a return code 1 or 11).

If a reboot is needed, the /reboot_if_needed options generates the output

```
reboot_if_needed specified, rebooting
```

If no reboot is needed, WuInstall puts:

```
no reboot needed, so system will not reboot ...
```

/rebootcycle [ntimes]

Available in Wulninstall Pro

With the /rebootcycle option it is possible to install updates with several reboots in between. After a successful update and reboot, Wulninstall starts and executes the previous command again. If the option is set Wulninstall prints:

```
/rebootcycle specified, going to run this wuinstall command at most x times again  
at startup if reboot is triggered
```

You can use this feature together with the options /reboot and /reboot_if_needed. If none is specified, /reboot_if_needed is taken as default setting. You are also able to set the maximum amount of reboot cycles (ntimes), for example

wulninstall /install /reboot_if_needed /rebootcycle 4

The default value of maximum reboot cycles, if nothing for ntimes is specified, is 3. Wulninstall uses the Windows Task Scheduler for executing commands before the user login.

/reboot_force

Forces a reboot after executing Wulninstall after nseconds (or default 10) seconds, it does not matter if a reboot is needed or not. Open programmes are forced to be closed.

/shutdown [nseconds]

Available in Wulninstall Pro

/shutdown is similar to /reboot, but instead of rebooting the system, it shuts down. The default number of the the delay seconds is 10, and the shutdown is done in ANY CASE, regardless the result of Wulninstall.

At the beginning of Wulninstall it is displayed:

```
/shutdown specified, system system shuts after WuInstall with 10 seconds delay
```

And when Wulninstall has finished

```
Shutdown after 10 seconds ...
```

If the shutdown was initiated successfully, Wulninstall exits with code 5, otherwise it displays an error code and exits with code 6.

Caching Options

Contents

[/install_cache](#) [cache_dir](#)
[/download_cache](#) [cache_dir](#)
[/nocachedel](#)

/install_cache cache_dir

Available in Wulninstall Pro

This feature uses a shared cache directory to prevent machines in a local network from downloading updates more than once.

The /install_cache option first of all executes the online search (exactly the same one as the /search option does, considering all parameters for criterias and filters).

The parameter cache_dir should be a folder on a local network share where multiple machines have access to.

Before downloading the updates from the result list, Wulninstall checks in the cache_dir if the update has already been downloaded there by another machine. If the update is not the cache folder, Wulninstall downloads the update (from the configured download location - WSUS and/or windowsupdate.com) and puts it into the cache directory, in a subfolder which has the same name as the Update ID.

If the update is present in the folder (if there is a subdirectory with the Update ID), Wulninstall tries to copy the update from this shared cache folder to the local update cache. If this fails for some reason, Wulninstall deletes the subdirectory in the shared cache folder (because there is apparently something wrong with the update) and downloads the update directly from the Internet.

For example, the first machine calls:

WUInstall.exe /install_cache p:\temp

and the update "Windows Malicious Software Removal Tool - August 2010 (KB890830)" is not yet present in the cache directory. First of all, the cache is checked for a directory with the same name as the Update ID (in this case 20110b11-6dd2-4153-a76d-e660ec78ebd), and the update is not found:

```
Checking cache for update: Windows Malicious Software Removal Tool - August 2010
(KB890830)
Update Windows Malicious Software Removal Tool - August 2010 (KB890830)
Multi-Lingual - Delta not found in cache directory
p:\temp\20110b11-6dd2-4153-a76d-e660ec78ebd
```

So, the update will be downloaded from the configured location (here, the Windows Update site) and copied into the cache folder:

```
Update bundle not found, downloading...
Copying downloads directly...
Downloading:
http://download.windowsupdate.com/msdownload/update/software/upr1/2010/08/windo
ws-kb890830-v3.10-delta_b6366a428af17c9c7c524ebd15aafe3608d3fa39.exe to
p:\temp\20110b11-6dd2-4153-a76d-e660ec78ebd/windows-kb890830-v3.10-delta_b6366
a428af17c9c7c524ebd15aafe3608d3fa39.exe ...
OK
```

Download OK

After the download is finished, Wulninstall checks the cache again and finds the just downloaded update there and copies it to the local cache of the machine (the local cache is usually following directory: Windows\SoftwareDistribution\Download)

```
Checking cache again...
Update Windows Malicious Software Removal Tool - August 2010 (KB890830)
Multi-Lingual - Delta found in cache directory, copying to local cache... OK
```

After that, the download of the update is finished and it is installed.

Later, another machine (which also needs the KB890830 update) also calls:

WUInstall.exe /install_cache p:\temp

Now, the update is present in the cache directory and is copied from there without downloading it from the Internet or WSUS Server (which apparently saves a lot of Internet bandwidth since the cache directory is in the local network):

```
Checking cache for update: Windows Malicious Software Removal Tool - August 2010
(KB890830)
Update Windows Malicious Software Removal Tool - August 2010 (KB890830)
Multi-Lingual - Delta found in cache directory, copying to local cache...
OK
```

/download_cache cache_dir

Available in Wulninstall Pro

This option does the same as /install_cache, but only downloads the updates, without installing them (which can be used for example to populate the cache with updates, without installing them).

/nocachedel

In combination with [/install_cache](#) or [/download_cache](#): does not clear the cache directory on error.

Criteria Options

Contents

[/criteria "query string"](#)
[/driveronly](#)
[/includedriver](#)
[/alltypes](#)

/criteria "query string"

Specifies the criteria with which the updates are searched on the server (Windows Update Site or WSUS).

If no criteria is specified, WuInstall searches by default for software (no drivers!) which has not yet been installed. So the default criteria is: IsInstalled=0 and Type='Driver'.

When an invalid criteria was specified, the search fails and WuInstall exits with code 4.

```
Invalid criteria !
```

When the criteria was valid, e.g. when you type

WuInstall.exe /search /criteria "IsInstalled=1"

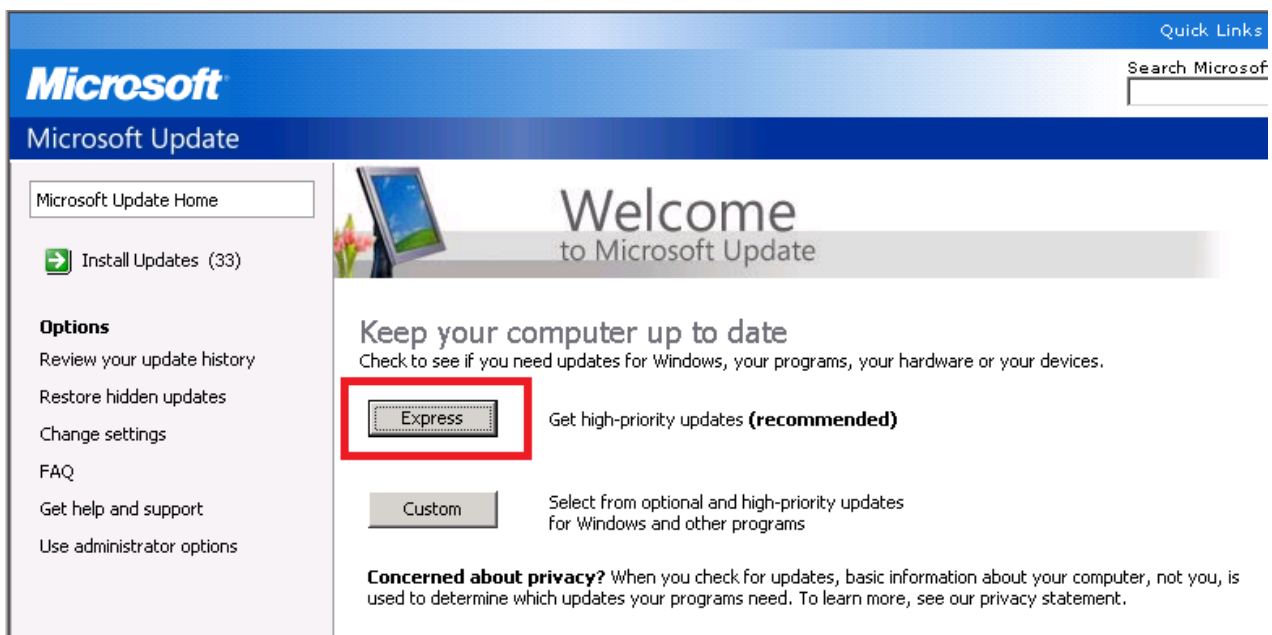
WuInstall displays

```
Searching for updates ... Criteria: IsInstalled=1
```

and includes only updates in the result list, which match this criteria.

For more details on criteria see <http://msdn.microsoft.com/en-us/library/aa386526%28VS.85%29.aspx>

To perform an express update like the express option on the windows update site



use the command:

WuInstall.exe /search /bypass_wsus /criteria "IsHidden=0 and IsInstalled=0 and IsAssigned=1"

/driveronly

Available in Wulninstall Pro

Searches only for drivers which have not yet been installed. Equivalent to the criteria (IsInstalled=0 and Type='Driver').

/includedriver

Available in Wulninstall Pro

Searches for software and drivers which have not yet been installed. Equivalent to criteria (Type='Software' and IsInstalled=0) or (Type='Driver' and IsInstalled=0)

/alltypes

Available in Wulninstall Pro

Searches for all types of updates which have not yet been installed. Equivalent to criteria (IsInstalled=0).

Filter Options

Contents

[/classification update_classification](#)

[/severity severity_level](#)

[/product "product_name"](#)

[/match "regexp"](#)

[/nomatch "regex"](#)

[/matchfile file](#)

[/nomatchfile file](#)

[/isdownloaded 1|0](#)

/classification update_classification

Available in Wulninstall Pro

Each update has a certain classification. It is possible to filter results of a search (which match the specified criteria) by classifications.

Classifications are:

- **Critical Updates:** Broadly released fixes for specific problems addressing critical, non-security related bugs.
- **Updates:** Broadly released fixes for specific problems addressing non-critical, non-security related bugs.
- **Update Rollups:** Cumulative set of hotfixes, security updates, critical updates, and updates packaged together for easy deployment. A rollup generally targets a specific area, such as security, or a specific component, such as Internet Information Services (IIS).
- **Security Updates:** Broadly released fixes for specific products, addressing security issues.

- **Service Packs:** Cumulative sets of all hotfixes, security updates, critical updates, and updates created since the release of the product. Service packs might also contain a limited number of customer-requested design changes or features.
- **Feature Packs:** New feature releases, usually rolled into products at the next release.
- **Definition Updates:** Updates to virus or other definition files.

You can combine classifications by just combining the letters:

C (Critical Updates)

U (Updates)

R (Update Rollups)

S (Security Updates)

E (Service Packs)

F (Feature Packs)

D (Definition Updates)

For example

WUInstall.exe /search /criteria "IsInstalled=1" /classification CRSE generates the following output:

```
Searching for updates ... Criteria: IsInstalled=1
Result Code: Succeeded

96 Updates found in total, filtering ...
Listing those matching following classifications:
Critical Updates
Update Rollups
Security Updates
Service Packs
```

/severity severity_level

Available in WuInstall Pro

Each security update has a certain severity level. It is possible to filter results of a search (which match the specified criteria) by severity levels.

Severity levels are:

- **Critical:** A security issue whose exploitation could allow the propagation of an Internet worm without user action.
- **Important:** A security issue whose exploitation could result in compromise of the confidentiality, integrity, or availability of users' data, or of the integrity or availability of processing resources.
- **Moderate:** Exploitation is mitigated to a significant degree by factors such as default configuration, auditing, or difficulty of exploitation.
- **Low:** A security issue whose exploitation is extremely difficult, or whose impact is minimal.
- **Unknown:** all updates, which are not a security update.

You can combine severity levels by just combining the letters:

C (Critical)

I (Important)

M (Moderate)

L (Low)

U (Unknown)

So the command

WUInstall.exe /search /severity CIU

filters the result list of the search to contain only updates with severity Critical, Important and Unknown:

```
Searching for updates ... Criteria: IsInstalled=0 and Type='Software'
Result Code: Succeeded

30 Updates found in total, filtering ...
Listing those matching following severities:
Critical
Important
Unknown
```

/product "product_name"

Available in WuInstall Pro

Each update belongs to a product (for example Office 2007, Windows 7, Forefront Client Security, ...). It is also possible to filter results of a search (which match the specified criteria) by a product name.

No wildcards are possible, the product name has to be an exact match. Currently, you can only filter one product.

So for example the command

WUInstall.exe /search /criteria IsInstalled=1 /product "Forefront Client Security"

gives the following output:

```
Searching for updates ... Criteria: IsInstalled=1
Result Code: Succeeded

96 Updates found in total, filtering ...
Listing product: 'Forefront Client Security'
```

/match "regex"

This option filters each update in the result list if the title of an update matches the search string specified with the regex parameter (in WuInstall Pro, also regular expressions are possible).

You can search, for example, just for all updates matching KB890830 with:

WuInstall.exe /search /match KB890830 /criteria IsInstalled=1

```
Searching for updates ... Criteria: IsInstalled=1
Result Code: Succeeded

96 Updates found in total, filtering ...
Listing those matching search expression: 'KB890830'

1. Windows Malicious Software Removal Tool - August 2010 (KB890830)
Severity: Unknown
UpdateClassification - Update Rollups
Product - Windows 7
```

With using regular expressions, you can do some more complex queries. For a good explanation of regular expressions see <http://www.cs.tut.fi/~jkorpela/perl/regexp.html>

For example, searching for all updates that match "Internet Explorer 8", the Term "Language" or "KB89", you type:

WuInstall /search /match "(Language|KB93|Internet Explorer)"

```
Searching for updates ... Criteria: IsInstalled=1
Result Code: Succeeded

96 Updates found in total, filtering ...
Listing those matching search expression: '(Language|KB89|Internet Explorer)'

1. Update for Microsoft Office Language Pack 2007 (for Office Outlook 2007 with
Business Contact Manager ) (KB946307)
Severity: Unknown
UpdateClassification - Critical Updates
Product - Office 2007

2. Update for Internet Explorer 8 Compatibility View List for Windows 7 (KB98263
2)
Severity: Unknown
UpdateClassification - Updates
Product - Windows 7

3. Update for Internet Explorer 8 Compatibility View List for Windows 7 (KB98266
4)
Severity: Unknown
UpdateClassification - Updates
Product - Windows 7

4. Cumulative Security Update for Internet Explorer 8 for Windows 7 (KB2183461)
Severity: Critical
UpdateClassification - Security Updates
Product - Windows 7

5. Windows Malicious Software Removal Tool - August 2010 (KB890830)
Severity: Unknown
UpdateClassification - Update Rollups
Product - Windows 7
```

/nomatch "regex"

Available in WuInstall Pro

This is quite the opposite of the /match option: it filters out all the updates that do match the regular expression and displays the rest (=the updates which do NOT match).

Obviously it is very useful for excluding certain updates.

For example, to filter out all updates that do not contain the words "Microsoft" or "Windows" (there are not many updates that do so ...) use:

WUInstall.exe /search /criteria "IsInstalled=1" /nomatch (Windows|Microsoft)

```
Searching for updates ... Criteria: IsInstalled=1
Result Code: Succeeded

96 Updates found in total, filtering ...
Listing those NOT matching search expression:  '(Windows|Microsoft) '

1. MSXML 6.0 RTM Security Update (925673)
   Severity: Critical
   UpdateClassification - Security Updates
   Product - SQL Server Feature Pack

2. Update for Business Contact Manager for Outlook 2007 (KB946140)
   Severity: Unknown
   UpdateClassification - Critical Updates
   Product - Office 2007

3. Security Update for SQL Server 2005 Service Pack 3 (KB970892)
   Severity: Critical
   UpdateClassification - Security Updates
   Product - SQL Server 2005

4. Update Rollup 10 for Exchange Server 2007 Service Pack 1 (KB981407)
   Severity: Unknown
   Product - Exchange Server 2007
   UpdateClassification - Update Rollups
```

Of course, /match and /nomatch can also be combined.

/matchfile file

Available in WuInstall Pro

With the /matchfile option you can specify multiple [/match](#) parameters.

Just write the desired update matches (regular expressions are supported) into a file and specify this file as the matchfile.

For example, create the file "updateList.txt" with the following content:

```
Security State Assessment 1.0
```

```
KB963671
KB975467
.NET Framework 3.5 SP1 Security
```

The match entries are separated with a newline. The file has to be either in UTF-8, ANSI or DOS character set. UTF-16 is not supported.

Wulninstall lists all the updates in the result list, which match AT LEAST ONE of the lines in the file.

If you type

Wulninstall.exe /search /matchfile c:\updateList.txt

Wulninstall gives for example the following result list:

```
95 Updates found in total, filtering ...
Listing those matching search expressions in file: 'c:\updateList.txt'

1. Update for Microsoft Script Editor Help (KB963671)
Severity: Unknown
Product - Office 2007
UpdateClassification - Updates

2. Security Update for Windows 7 (KB975467)
Severity: Important
UpdateClassification - Security Updates
Product - Windows 7

3. Definition Update for Microsoft Forefront Client Security (Security State
Assessment 1.0.1710.103 Full)
Severity: Unknown
UpdateClassification - Definition Updates
Product - Forefront Client Security

4. Microsoft .NET Framework 3.5 SP1 Security Update for Windows 7 x86 (KB979916)
Severity: Important
UpdateClassification - Security Updates
Product - Windows 7
```

This option is useful when you keep a central list of updates to be rolled out on your machines in a shared directory (use this list as the matchfile).

/nomatchfile file

Available in Wulninstall Pro

/nomatchfile is quite the opposite of the [/matchfile](#) option: use it if you want to specify multiple [/nomatch](#) paramters (if you want to exclude a list of updates).

Wulninstall lists all the updates in the result list, which match NONE of the lines in the file.

Just write the update matches that should be excluded (regular expressions are supported) into a file and specify this file as the nomatchfile.

For example, create the file "exclude.txt" with the following content:

```
Windows
Microsoft
925673
Office
```

The exclude entries are separated with a newline. The file has to be either in UTF-8, ANSI or DOS character set. UTF-16 is not supported.

If you type

WuInstall.exe /search /nomatchfile c:\exclude.txt

```
WuInstall puts out for example the following result list:

95 Updates found in total, filtering ...
Listing those NOT matching search expressions in file: 'c:\exclude.txt'

1. Update for Business Contact Manager for Outlook 2007 (KB946140)
   Severity: Unknown
   UpdateClassification - Critical Updates
   Product - Office 2007

2. Security Update for SQL Server 2005 Service Pack 3 (KB970892)
   Severity: Critical
   UpdateClassification - Security Updates
   Product - SQL Server 2005

3. Update Rollup 10 for Exchange Server 2007 Service Pack 1 (KB981407)
   Severity: Unknown
   Product - Exchange Server 2007
   UpdateClassification - Update Rollups
```

/isdownloaded 1|0

Available in WuInstall Pro

This options filters updates which have already been downloaded to the local cache.

You can call for example WuInstall with the [/download](#) options combined with some filters to download all available updates:

```
30 Updates found in total, filtering ...
Listing those matching search expression: 'Greek'

1. Greek Language Pack - Windows 7 (KB972813)
   Severity: Unknown
   UpdateClassification - Updates
   Product - Windows 7 Language Packs

Downloading updates ...
Downloading Greek Language Pack - Windows 7 (KB972813):
```

and then later use:

WUInstall.exe /install /isdownloaded 1

You will get following output:

```
30 Updates found in total, filtering ...
Listing only updates which are already downloaded

1. Greek Language Pack - Windows 7 (KB972813)
Severity: Unknown
UpdateClassification - Updates
Product - Windows 7 Language Packs
```

Deleting updates manually from the local download cache (usually Windows\SoftwareDistribution\Download) might cause this option to work incorrectly, because even deleted they are still considered as downloaded.

WSUS Options

Contents

[/bypass_wsus](#)
[/use_wsus wsus_address](#)
[/use_mu_on_error](#)

/bypass_wsus

Available in Wulninstall Pro

The bypass_wsus option bypasses any configured WSUS and forces Wulninstall to access the Windows Update site.

If a WSUS is configured, Wulninstall changes the registry key HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Microsoft\Windows\WindowsUpdate\AU, Value UseWuServer from 1 to 0, which means that no WSUS should be used.

If you type

WUInstall.exe /search /bypass_wsus

and a WSUS is configured, the output is:

```
You are using WSUS Server http://mywsus.local:8530
bypass_wsus specified, bypassing WSUS ... successful!
```

After the execution of Wulninstall, the initial state is restored by resetting the UseWuServer value to 1.

```
bypass_wsus specified, reactivating WSUS ... successful!
```

When the execution of Wulninstall is aborted for some reason before Wulninstall can reset the registry value, it have to be reset manually!

/use_wsus wsus_address

Available in WuInstall Pro

The /use_wsus option works similar to the [/bypass_wsus](#) option, but you can specify another WSUS which is valid during the execution of WuInstall (or it allows you to switch from no WSUS at all to a certain WSUS).

WuInstall manipulates the following registry keys:

- HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Microsoft\Windows\WindowsUpdate\AU\UseWuServer: is set to 1
- HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Microsoft\Windows\WindowsUpdate\WUSever: is set to the specified wsus_address
- HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Microsoft\Windows\WindowsUpdate\WUStatusServer: is set to the specified wsus_address

and stores the initial values for resetting them after WuInstall has finished.

For example, if you have WSUS <http://mywsus.local:8530> configured, and want to go to the WSUS <http://mywsus2.local:8530>, you type:

WUInstall.exe /search /use_wsus <http://mywsus2.local:8530>

and WuInstall puts out:

```
You are using WSUS Server http://mywsus.local:8530
use_wsus specified .... WUSever and WUStatusServer successfully set to
http://mywsus2.local:8530
```

After the execution of WuInstall, the initial state is restored (in this example, the WSUS is reset to <http://mywsus.local:8530>)

```
use_wsus specified, deactivating WSUS again
resetting WUSever to http://mywsus.local:8530, WUStatusServer to http://mywsus.local:8530 ...
successful!
```

When the execution of WuInstall is aborted for some reason before WuInstall can reset the registry values, they have to be reset manually!

/use_mu_on_error

When an error occurs trying to install an update using WSUS, WuInstall automatically tries again to install the updates bypassing the WSUS.

Other Options

Contents

[/autoaccepteula](#)
[/logfile file-to-log](#)
[/logfile append file-to-log](#)
[/maxruntime minutes](#)
[/simple_error](#)
[/show_progress](#)
[/offline](#)
[/quiet](#)
[/disableprompt](#)
[/silent](#)
[/donothing \[retcode\]](#)
[/xmlout file](#)
[/disable_winhttp_proxy](#)
[/disable_internet_proxy](#)
[/includRecommendedUpdates](#)
[/disable_ie_firsttruncustomize](#)

/autoaccepteula

Available in WuInstall Pro

For some updates, an EULA (End-User License Agreement) has to be accepted by the user. With the option /autoaccepteula, all EULAs are accepted automatically before installing.

So the update installation works without any user interaction, the process can be completely unattended.

This works only when WuInstall is called by an Administrator or a power user account.

/logfile file-to-log

Available in WuInstall Pro

This options logs the console output of WuInstall to the specified logfile (each output line also contains the current timestamp).

For example, to log all already installed downloads:

WUInstall.exe /search /criteria "IsInstalled=1" /logfile "c:\data\WuInstallLog.txt"

WuInstallLog.txt contains for example the following lines:

```

2010/08/24-08:10:37    Searching for updates ... Criteria: IsInstalled=1
2010/08/24-08:10:40
2010/08/24-08:10:40 Result Code: Succeeded
2010/08/24-08:10:40    50 Updates found in total, filtering ...
2010/08/24-08:10:40    1. German Language Pack - Windows 7 (KB972813)    Severity:
Unknown
2010/08/24-08:10:40    UpdateClassification - Updates    Product - Windows 7 Language
Packs
2010/08/24-08:10:40    2. Windows Server Update Services 3.0 SP2 (KB972455)
Severity: Unknown
2010/08/24-08:10:40    UpdateClassification - Service Packs    Product - Windows 7

```

```
2010/08/24-08:10:40    3. French Language Pack - Windows 7 (KB972813)    Severity:
Unknown
2010/08/24-08:10:40    UpdateClassification - Updates    Product - Windows 7 Language
Packs
```

This option is obviously very useful when testing and debugging Wulninstall scripts or when running Wulninstall with a scheduled job or on remote machines.

/logfile_append file-to-log

Available in Wulninstall Pro

The option /logfile_append is similar to /logfile with the difference that the entries are appended at the end of the specified file, instead of creating a new file.

/maxruntime minutes

Available in Wulninstall Pro

This option starts a timer with the specified number of minutes at the start of Wulninstall and exits Wulninstall (if it is not finished until the timer expires) with exit code 12. It exits at any case, no matter how far the execution Wulninstall is.

For example, with /maxruntime 5, Wulninstall exits after 5 minutes displaying

```
Maxruntime timeout elapsed: 5, exiting process!
```

This option is intended for machines, where downloads take a lot of time or machines which hang for some reason, to avoid Wulninstall from running endlessly long.

Use this option with caution, especially when using the [/use_wsus](#) or [/bypass_wsus](#) options!

/simple_error

Available in Wulninstall Pro

With this option, Wulninstall returns 0 for any success and 1 for any error, regardless of the reason.

Which means, if the return code would be 0, 2, 3, 5 or 10, Wulninstall returns 0 and displays the message

```
Simple result specified, returning 0 for success!
```

In any other case (the remaining codes 1, 4, 6, 11, 12), Wulninstall returns 1 and displays the message

```
Simple result specified, returning 1 for error!
```

/show_progress

Available in Wulninstall Pro

This option shows the progress for the download of every single update and the installation of the updates, using asynchronous downloads / installation.

On some machines under certain circumstances, the `/show_progress` option might cause problems, so use it only when manually testing scripts or searching for problems on a single workstation. It is not advised to use it in automated scripts on different workstations.

This feature is not recommended for the productive use of WuInstall!

/offline

Available in WuInstall Pro

This options makes WuInstall NOT connecting to the WSUS Server or Microsoft Update site when searching updates, instead it searches offline.

This option is quite useful for searching already installed updates. The criteria `"IsInstalled=1"` and the [/uninstall](#) option automatically trigger an offline search.

For example, check if the Update KB982214 is installed on a machine:

WUInstall.exe /search /criteria "IsInstalled=1" /offline /match "KB982214"

```
/offline specified, searching offline...

Searching for updates ... Criteria: IsInstalled=1
Result Code: Succeeded

96 Updates found in total, filtering ...
Listing those matching search expression:  'KB982214'

1. Security Update for Windows 7 (KB982214)
   Severity: Important
   UpdateClassification - Security Updates
   Product - Windows 7
```

When not using `IsInstalled=1`, the search result list usually contains the updates found at the last online search.

/quiet

Available in WuInstall Pro

The update-installer is forced to do an installation without user interaction.

/disableprompt

Available in WuInstall Pro

Disable showing source prompts to a user when installing the updates.

/silent

Available in WuInstall Pro

Suppresses any console output (logfile option is still working).

/donothing [retcode]

Available in WuInstall Pro

WuInstall takes no action and returns the specified retcode, 0 by default.

/xmlout file

Available in WuInstall Pro

Writes an XML report to the specified file. This file contains additional information about the machine.

```
<wuinstall>
  <system-info>
    <wuinstall-version>WuInstall Version 1.3.2 Pro, Build
2011-05-12</wuinstall-version>
    <windows>
      <version>Microsoft Windows [Version 6.1.7601]</version>
      <service-pack>Service Pack 1</service-pack>
      <windows-update-agent>
        <major-version>6</major-version>
        <minor-version>0</minor-version>
        <product-version>7.5.7601.17514</product-version>
      </windows-update-agent>
      <domain>HS2N</domain>
      <username>testuser</username>
      <computername>PC001</computername>
    </windows>
    <processor-architecture>x86</processor-architecture>
    <WOW64>>false</WOW64>
  </system-info>
  <wsus>http://atvieadc01.hs2n.local:8530</wsus>
  <parameters>/search /xmlout c:\wuinstall.xml</parameters>
  <updates>
    <update>
      <title>Security Update for Microsoft Visual C++ 2005 Service Pack
1 Redistributable Package (KB2467175)      </title>
      <description>
A security issue has been identified leading to MFC application vulnerability in
DLL planting due to MFC not specifying the full path to system/localization DLLs.
You can protect your computer by installing this update from Microsoft. After you
install this item, you may have to restart your computer.
      </description>
      <download_priority>Normal</download_priority>
      <eula_accepted>true</eula_accepted>
      <identity>3e5d82cd-de97-428c-ab60-aa22b048c083</identity>
      <is_beta>false</is_beta>
      <is_downloaded>false</is_downloaded>
      <is_hidden>true</is_hidden>
      <is_installed>false</is_installed>
    </update>
  </updates>
</wuinstall>
```

```

<is_mandatory>false</is_mandatory>
<is_present>false</is_present>
<is_uninstallable>false</is_uninstallable>
<kb_article_ids>
  <kb_article_id>2467175</kb_article_id>
</kb_article_ids>

<last_deployment_change_time>2011-04-19</last_deployment_change_time>
<max_download_size>2706328</max_download_size>
<min_download_size>0</min_download_size>
<msrc_severity>Important</msrc_severity>
<recommended_cpu_speed>0</recommended_cpu_speed>
<recommended_hard_disk_space>0</recommended_hard_disk_space>
<recommended_memory>0</recommended_memory>
<support_url>http://support.microsoft.com</support_url>
<update_type>Software</update_type>
<categories>
  <category>
    <id>0fa1201d-4330-4fa8-8ae9-b877473b6441</id>
    <description>
A broadly released fix for a product-specific security-related vulnerability.
Security vulnerabilities are rated based on their severity which is indicated in
the Microsoft?security bulletin as critical, important, moderate, or low.
    </description>
    <name>Security Updates</name>
    <order>-1</order>
    <type>UpdateClassification</type>
  </category>
  <category>
    <id>a0dd7e72-90ec-41e3-b370-c86a245cd44f</id>
    <description>Visual Studio 2005</description>
    <name>Visual Studio 2005</name>
    <order>-1</order>
    <type>Product</type>
  </category>
</categories>
<reboot_required>false</reboot_required>
</update>
</updates>
<result>
  <return_code>0</return_code>
  <return_text></return_text>
  <reboot_required>false</reboot_required>
</result>
</wuinstall>

```

/disable_winhttp_proxy

Available in WuInstall Pro

Disables the winhttp Proxy. Therefore WuInstall deletes the registry key
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Internet Settings\Connections.
After execution WUInstall enables the Proxy again.

/disable_internet_proxy

Available in WulnInstall Pro

Disables the internet Proxy, after executing WUInstall the winhttp Proxy is enabled again.

/includRecommendedUpdates

Available in WulnInstall Pro

Includes recommended and optional updates.

/disable_ie_firsttruncustomize

Available in WulnInstall Pro

Disables the internet explorer 8 set up dialog.

WuInstall Return Codes

Contents

[1. Return Codes](#)

[2. Error Codes](#)

Return Codes

- 0: successful, no reboot required
- 1: at least one error occurred, no reboot required
- 2: no more updates available
- 3: no updates available that match your search (in combination with [/severity](#), [/classification](#), [/product](#), [/criteria](#), [/match](#), [/nomatch](#), [/matchfile](#), [/nomatchfile](#))
- 4: invalid criteria specified (in combination with [/criteria](#))
- 5: reboot/shutdown initialized successful (in combination with [/reboot](#) or [/shutdown](#))
- 6: reboot/shutdown failed (in combination with [/reboot](#) or [/shutdown](#))
- 7: syntaxerror, wrong command
- 8: invalid version, expiration date reached
- 10: successful, reboot required
- 11: at least one error occurred, reboot required
- 12: timeout reached (in combination with [/maxruntime](#))

Error Codes

Error Code	Error String	Description
0x80240044	WU_E_PER_MACHINE_UPDATE_ACCESS_DENIED	Only administrators can perform this operation on per-machine updates.
0x80248013	WU_E_DS_DUPLICATEUPDATEID	The server sent the same update to the client with two different revision IDs. wuinstall.exe exited on <MyServerName> with error code 1.
0x80244021	WU_E_PT_HTTP_STATUS_BAD_GATEWAY	Same as HTTP status 502 The server, while acting as a gateway or proxy, received an invalid response from the upstream server it accessed in attempting to fulfill the request.
0x80072EE6	ERROR_INTERNET_UNRECOGNIZED_SCHEME	The URL scheme could not be recognized or is not supported.

HowTo

Basic functions

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Selecting updates

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1. Basic functions

There are three basic switches. Exactly one of them must be specified in order for wuInstall to do something. It makes no sense to specify more than one of those switches (e.g. wuInstall /search /install), because download automatically includes a search and install automatically includes search and download.

1.1. Searching for updates

The simplest command in WuInstall is just searching for updates:

```
WuInstall /search
```

It lists all update which are available. It either searches on the Windows Update Server in the Internet, or, if configured, on your WSUS. It has no impact on your system at all, it just does a search and lists what was found.

1.2. Downloading updates

You can download updates with WuInstall with

```
WuInstall /download
```

It does the same search as WuInstall /search and then downloads the updates which were found. WuInstall itself does not download anything, but it triggers the Microsoft Windows Update Engine, which downloads the updates.

1.2.1. Downloading updates to a certain directory

The download option can be extended, in order to also copy the installation packages included in the download to a certain directory (e.g. for manual installation and distribution)

```
WuInstall /download_to "c:\updates_download"
```

Does exactly the same as WuInstall /download, but afterwards it copies the contents of the downloaded updates (usually .exe or .msi-files) for example to c:\updates_download, from where they can be installed manually or copied and used for patching other machines

1.3. Installing updates

To install the updates, you use:

```
wuInstall /install
```

It again searches the updates, downloads them (if they have not already been downloaded by a previous wuInstall /download command) and then installs them.

2. Selecting updates

With various switches, you can narrow the results of the search for updates and therefore also the updates which are downloaded and installed. You can use criteria queries, search updates which match certain names, severities, products or classifications.

Tip: In subsequent examples, we only use the /search option to illustrate how to select updates. This option is ideal to test certain switches, because it just lists the updates and has no further impact on the system. Of course, also the /download or /install switch can be used with all following the examples.

2.1. Specifying criterias

With /criteria you can specify a query string, in order to change the search. The default criteria (when no /criteria is specified) is "IsInstalled=0 and Type='Software'".

Tip: For how the query string can be built see [MSDN](#)

You can, for example search for updates which are already installed:

```
wuInstall /search /criteria "IsInstalled=1"
```

(here, obviously, a /download or /install makes no sense)

Furthermore you can also just select Drivers:

```
wuInstall /search /criteria "IsInstalled=0 and Type='Driver'"
```

or Drivers and Software:

```
wuInstall /search /alltypes
```

which is equivalent to:

```
wuInstall /search /criteria "IsInstalled=0"
```

2.2. Matching specific search strings

With the /match option, you can get updates of which the title matches a specific search string.

Tip: You can test the /match option for example with /criteria "IsInstalled=1", because then you (usually) have a very long list of updates in your search.

For example, you can search for a specific update:

```
wuInstall /search /match "KB956844"
```

only lists the "Security Update for Windows XP (KB956844)"

In the WuInstall Pro Version /match also supports regular expressions, for example find all updates which have the terms "Language" OR "KB93" OR "Live" in their title:

```
WuInstall /search /match "(Language|KB93|Live) "
```

2.3. Not Matching specific search strings

In the WuInstall Pro Version, there is, corresponding to the /match-switch also a /nomatch-switch For example, search all Updates which do NOT match "SQL" OR "Windows" OR "KB"

```
WuInstall /search /nomatch "(SQL|Windows|KB) "
```

/match and /nomatch can, of course, also be used in combination, for example search all Updates which match "SQL" OR "Office" but do not Match "KB" or "Microsoft"

```
WuInstall /search /match "(SQL|Office) " /nomatch "(KB|Microsoft) "
```

2.4. Search string in files

It is also possible to put search strings in a file. For example, you create a file match.txt with the following search string (seperated by a newline):

c:\Data\match.txt

```
KB93
KB94
KB95
Office
Internet Explorer 8
```

If you execute

```
wuInstall /search /matchfile c:\Data\match.txt
```

Your will get all updates matching KB93, KB94, KB95, Office or Internet Explorer 8.

There is also a /nomatchfile switch which does the opposite, which excludes updates matching one of the search terms in the file.

```
wuInstall /search /nomatchfile c:\Data\match.txt
```

Regular expressions are also possible as search expressions in the files.

2.5. Severity

Each security update has a certain severity. There are five possible severities:

- Critical (C): A security issue whose exploitation could allow the propagation of an Internet worm without user action.

- Important (I): A security issue whose exploitation could result in compromise of the confidentiality, integrity, or availability of users' data, or of the integrity or availability of processing resources.
- Moderate (M): Exploitation is mitigated to a significant degree by factors such as default configuration, auditing, or difficulty of exploitation.
- Low (L): A security issue whose exploitation is extremely difficult, or whose impact is minimal.
- Unknown (U): No information about the severity is available.

In letter the brackets is the code for the /severity - option. Just put the letters together to select multiple severities.

For example, all critical and important updates:

```
WuInstall /search /severity CI
```

Tip: The severity is only filled for security updates, so it is not really suitable for finding high priority updates as security updates usually ARE high priority updates. Classification is better for that purpose.

2.6. Classification

Each update belongs to one of those classifications:

- Critical Updates (C)
- Security Updates (S)
- Updates (U)
- Update Rollups (R)
- Services Packs (E)
- Feature Packs (F)
- Definition Updates (D)

Just put the letters in the bracket together to select multiple severities. For example, select all security updates, critical updates and Updates:

```
WuInstall /search /classification SCU
```

Tip: High priority updates can best be found with the classification CRS (Critical, Security and Update Rollups), however sometimes also U (Updates) can be high priority. Generally speaking, selecting which updates are high priority and which are not is up to the administrator, there is no general rule how to automatically match the high priority categorization on the microsoft update website

2.7. Product

Each update belongs to a Microsoft product, for example Office 2003, Windows XP, Visual Studio 2008, Silverlight, ...

The /product switch enables to search by one product.

For example, find all Updates for Visual Studio 2008:

Tip: The product name has to match exactly, so just specifying "Visual Studio" here would produce no results.

```
WuInstall /search /product "Visual Studio 2008"
```

Tip: All update selection options (/match /nomatch /matchfile /nomatchfile /severity /classification /product) can be used in combination with each other!

3. Additional options

There are some additional options with which you can control the behavior WuInstall and the installation of updates. For example rebooting the system, bypassing the wsus or accepting EULAs without user interaction.

3.1. Reboot

The reboot-option just reboots the system n seconds after WuInstall has finished. It can be used together with search, download or install and it can also be used standalone.

For example, reboot in 30 seconds:

```
WuInstall /reboot 30
```

If no time interval is specified, 10 seconds is the default delay.

Reboot 10 seconds after the updates have been installed:

```
WuInstall /install /reboot
```

Tip: The /reboot option reboots the system after executing WuInstall unconditionally after the specified number of seconds. The result of WuInstall has no influence whether if there is a reboot or not.

3.2. Rebootcycle

With this option complete cumulative updating of windows systems becomes possible. That means installing updates, rebooting and installing further updates will be automated. After performing an update and rebooting afterwards, WuInstall starts again before the Windows Logon and executes the same command again, which was done before the reboot. The /rebootcycle option uses the Windows Task Scheduler to restart WuInstall.

Tip: You can limit this rebootcycle option to a maximum number of reboots to prevent of getting stuck in an endless loop. Default is 3.

The /rebootcycle option works together with /reboot or /reboot_if_needed.

When the /rebootcycle is used WuInstall outputs in the console:

```
/rebootcycle is specified, going to run this wuinstall command at most x times again  
at startup if reboot is triggered
```

Example usage:

```
wuInstall /install /logfile_append c:\loginst.txt /reboot_if_needed /rebootcycle  
2
```

This command installs all available software updates. If necessary the system will reboot after an update installation and WuInstall will execute the command until all pending available updates are installed. In this case the numbers of reboots is limited to a maximum of 2 in any case. Also the [/logfile_append](#) option is set to have a report about the whole installation process including all reboots.

3.3. Rebootcycles and shutdown when finished

As already mentioned the /rebootcycle option automates reboots inbetween of updates. In many cases it might be necessary to shutdown the machine after having all updates done. For example if you want to schedule your windows updates during the night.

Example usage, which installs all available updates and shuts down the system when finished:

```
WuInstall /install /rebootcycle /shutdown
```

3.4. Bypassing the WSUS

If you have a WSUS, but want to go for the Windows Update Site instead of WSUS for some reason, you can use the option `/bypass_wsus` to bypass the WSUS server for the time WuInstall is executed. For example, bypass wsus and install update KB956844 from the Windows Update Site:

```
WuInstall /install /bypass_wsus /match "KB956844"
```

After execution of WuInstall, WSUS is re-activated for your system. This option automatically executes the `Sc stop wuauserv` and `Sc start wuauserv` commands in order for the bypass to take effect.

Tip: If WuInstall fails for some reason or is aborted before it finishes, the registry key `HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Microsoft\Windows\WindowsUpdate\AU`, Value `UseWuServer` is still set to 0. You have to set it to 1 manually, in order to tell your system to use WSUS again.

3.5. Selecting another WSUS

Quite the opposite of the `bypass_wsus` option is the `/use_wsus` option. If you want to choose another WSUS or if you have no WSUS configured at the machine and want to get updates from a certain WSUS, the `use_wsus` option can force WuInstall to use a certain WSUS. For example, install your updates from the server `wsus2` instead of `wsus1`:

```
WuInstall /install /use_wsus http://wsus2
```

WuInstall writes something like this:

```
You are using WSUS Server http://wsus1
use_wsus specified .... WUserver and WUstatusServer successfully set to
http://wsus2
```

After execution of WuInstall, the initial state is restored (e.g. `wsus1` is re-activated or WSUS is switched off again if it was off)

```
use_wsus specified, reactivating WUserver http://wsus1, WUstatusServer
http://wsus1 ... successful!
```

Tip: If WuInstall fails for some reason or is aborted before it finishes, the registry keys `HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Microsoft\Windows\WindowsUpdate\AU\UseWuServer`, `HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Microsoft\Windows\WindowsUpdate\WUserver`, `HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Microsoft\Windows\WindowsUpdate\WUstatusServer` have to be reset manually to the initial state

3.6. Accepting EULAs

Some updates require the user to accept an EULA in order to install. To automate this, the `/autoaccepteula` option automatically accepts all EULAs for updates which require this, without any user interaction or interruption.

Example:

```
WuInstall /install /autoaccepteula
```

FAQ

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How to use WulnInstall?

WulnInstall is a command line tool, so you have to run "cmd" to get to the command line. If you double click on WulnInstall, you only get a window showing a short description of the parameters. We recommend to run WulnInstall as administrator to avoid troubles with access rights.

Basically, you can do three things with WulnInstall:

- Searching for Updates: WulnInstall /search
→ searches for all available updates, either (if configured) on the internal WSUS or in the internet on the Microsoft Update Server and gives a list of the updates found
- Downloading updates: WulnInstall /download
→ does a search like in a), and downloads the updates found
- Installing updates: WulnInstall /install
→ does a search first, then it downloads and finally installs the updates found

There are several options for selecting not all, but only specific updates: /severity, /match, /nomatch, /matchfile, /nomatchfile, /classification, /product, /criteria

Beyond that, there are some other very useful options:

/bypass_wsus: switches the WSUS off while executing WulnInstall, to force going for the Microsoft Update Server in the internet

/autoaccepteula: automatically accepts EULAs for all updates which have to be installed → no user interaction required

/reboot [nseconds]: after executing WulnInstall, the system is rebooted after n seconds

For more infos, see also the [WulnInstall HowTos](#)

How to get "Important" Updates only?

To get the same updates as you get when selected "Important" Updates on the windows update page, please try the following criteria option:

```
wuinstall /search /criteria "IsHidden=0 and IsInstalled=0 and IsAssigned=1"
```

How do I call WuInstall on a remote machine using psexec?

Use the following command:

```
psexec \\server -c -s
-u domain\administrator -p password \\share\path_to_wuinstall\WUInstall.exe
/search
```

\\server → the remote Windows machine
 \\share\path_to_wuinstall\ → path to WuInstall executable
 -u domain\administrator → local admin oder domain admin user on the machine \\server
 -p password → password of the user
 -c → copies WuInstall on the remote system
 -s → executes the command (wuinstall.exe) on the local system

How to use WuInstall with a proxy server?

- When using a proxy which needs authentication, the user who executes wuinstall has to have the right to access the internet via the proxy.
- When using a WSUS via proxy, the wsus should be in the proxy exception list

Does windows reboot automatically after WuInstall installed updates which need to reboot the machine?

No!

But WuInstall returns a status code, which indicates whether a reboot would be necessary or not.

There is also the /reboot-option in WuInstall (it can be used in combination with all other options). It reboots windows, after executing WuInstall, at any case.

WuInstall /reboot just reboots the system, without doing anything else.

How does the /criteria option work?

For a detailed description of the query strings see [MSDN](#)

Some common examples:

- WuInstall /search /criteria "IsInstalled=0 and Type='Software'": searches updates of type software, which are not yet installed (default-setting when the /criteria option is not specified)
- WuInstall /search /criteria "IsInstalled=1": searches all updates, which are already installed on the machine (here, the options /install or /download are obviously not applicable, they will have no effect)

Where does WuInstall download the updates?

The file location where WuInstall downloads the updates depends on your Windows Version and System Configuration. It is the same directory the "ordinary" Windows Update uses as well.

Usually, this directory is *Windows\SoftwareDistribution\Download*

Does Wulninstall work with Windows 7?

Yes, Wulninstall has been tested with Windows 7, 32-bit and 64-bit, and it works just as well as with all other Windows versions. We recommend to run Wulninstall as administrator to avoid troubles with access rights.

How to search for special Updates or how to use Regular Expressions for /match /nomatch?

If you want to select special Updates by using regular expressions (e.g for the switches /match or /nomatch), then have a look at the following URL for Perl - Style regular expressions:
<http://www.cs.tut.fi/~jkorpela/perl/regexp.html>.

Example:

- `WUInstall /install /nomatch "(Internet Explorer).*8 "`: Install all Updates except the ones for the Internet Explorer 8.

Is it possible to deploy IE8 without user interaction using Wulninstall?

With this command, you should get the absolute minimum of user interaction (=none) when installing IE 8:

```
wulninstall.exe /install /autoaccepteula /match "Internet Explorer 8"
/disable_ie_firstcustomize /quiet /disableprompt
```

- `/install ...` installs the update
- `/match "Internet Explorer 8" ...` Filters only for Updates with title matching "Internet Explorer 8"
- `/autoaccepteula ...` Accepts any EULAs automatically (suppress user interaction on that)
- `/disable_ie_firstcustomize ...` Disables the internet explorer 8 set up dialog.
- `/quiet ...` The update-installer is forced to do an installation without user interaction
- `/disableprompt ...` Disable showing source prompts to a user when installing the updates

Why does Wulninstall crash/generate failures during the download or installation of updates?

Are you using the [show_progress](#) option? This feature is not recommend for common usage. It might cause under certain circumstances on some machines problems.
It is only intended for manual testing on single machines. Please, try it without this option.

Wulninstall doesn't install updates properly when starting with "run as administrator", why?

When using Windows XP it might cause problems using the "run as" command together with Wulninstall. To prevent this you should use the [/quiet](#) and [/disableprompt](#) option on the end of your command.

Wulninstall exits with error code 0x80072EFD, why?

This error usually indicates a connection problem. There is no connection to the WSUS or to the Windows Update Server. Probably, the WSUS - address is just configured incorrectly or there are [proxy](#) problems.

See also <http://support.microsoft.com/kb/836941/en-us>

Wulninstall exits with error code 0x8024400A, why?

This Problem sometimes occurs with new Windows XP SP 3 Machines, when the Windows Update Agent is not properly installed. Just download according to <http://support.microsoft.com/kb/949104> the latest Version of the Windows Update Agent and install it.

Wulninstall exits with error code 0x80240044, why?

This error code occurs when administrator privileges are necessary to perform the wanted operation. Get sure that you run Wulninstall with an administrator user.
For further information about error codes see please [Error Codes](#).