

Configuring WebSpellChecker Server Parameters



All the available parameters for the WebSpellChecker Server management are listed in a special .xml file – **AppServerX.xml** file. Below you may find the description of each parameter, its default and possible values.

- The next parameters are valid for WebSpellChecker Server starting version **5.0.0**.
- By default the AppServerX.xml file is located in: **<WebSpellChecker_Installation_Path>/WSC/AppServer/AppServerX.xml**

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SpellCheckEngine

ServiceName

Description:	ServiceName parameter sets the WebSpellChecker service name in the Service Control Manager database (only for Windows).
Parameter type:	String
Default value:	WSCAppServer
Possible values:	Any string value.



Before changing the name of the service, it is required to uninstall the service. Rename and install the service again with a new name.

```
<ServiceName>WSCAppServer</ServiceName>
```

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Thread

MaxConnectionThreads **NEW** | 5.0.0

Description:	MaxConnectionThreads parameter defines a maximum number of AppServer connection threads. This is the upper limit on concurrent connections to the server.
Parameter type:	Number
Default value:	1000
Possible values:	

```
<MaxConnectionThreads>1000</MaxConnectionThreads>
```

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ConnectionThreadPriority **NEW** | 5.0.0

Description:	ConnectionThreadPriority parameter sets the priority of the AppServer connection threads.
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- MinQueryLengthToSkipSuggest
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- SuggestDepth
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 - JVMMaxMemorySizeMb NEW | 5.0.0
 - MixedProvider INACTIVE
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 - GrammarIgnoreDictFile INACTIVE
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 - SCNCDictionaryFolders INACTIVE
 - UserDictionaries
 - UserDictDir UPDATE | 5.0.0
 - UserDictServers UPDATED | 5.0.0
 - UDSeparationByCIDE enabled INACTIVE
 - PathToMainCIDFile INACTIVE
 - CustomDictionaries
 - CustDictDir UPDATE | 5.0.0
 - CustDictConfig UPDATED | 5.0.0
 - CustDictReloadOnFly UPDATED | 5.0.0
 - Languages
 - Language
 - Alias
 - GrammarCheckProvider
 - GrammarProviderOptions
 - SpellEngineOptions

Parameter type:	String
Default value:	normal
Possible values:	<ul style="list-style-type: none"> • lowest • low • normal • high • highest

```
<ConnectionThreadPriority>normal</ConnectionThreadPriority>
```

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WorkerThreads NEW | 5.0.0

Description:	WorkerThreads parameter sets the number of worker threads which perform spell and grammar checks, thesaurus work, etc.
Parameter type:	Number
Default value:	8
Possible values:	<ul style="list-style-type: none"> • 0 – unlimited of worker threads. • N_m is a number of the processor cores * 2.

```
<WorkerThreads>8</WorkerThreads>
```

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Memory

AggressiveConserve

Description:	AggressiveConserve parameter turns on/off a special mode with aggressive memory conservation. In the turned on mode, the memory will be freed as soon as possible. This parameter is bundled with the PercentLowMemory parameter. In the enabled mode, PercentLowMemory is ignored and the system is always considered to be in the low memory state.
Parameter type:	Boolean
Default value:	OFF

Possible values:	ON, OFF
------------------	---------

```
<AggressiveConserve>OFF</AggressiveConserve>
```

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PercentLowMem

Description:	PercentLowMem parameter defines a percent of the free physical memory remaining before the system will turn in low memory conditions state.
Parameter type:	Number
Default value:	5
Possible values:	1..100

```
<PercentLowMem>5</PercentLowMem>
```

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Connection

Port

Description:	Port parameter sets a default port number which will be used by AppServer for serving requests.
Parameter type:	Number
Default value:	2880
Possible values:	Any available port number.

```
<Port>2880</Port>
```

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QueueSize NEW | 5.0.0


Description:	QueueSize parameter defines the maximum size of the server socket backlog queue.
Parameter type:	Number

Default value:	3000
Possible values:	1...N _m , where N _m is a maximum allowed value of socket backlog queue. This maximum value is specific for each type of the operating system.

```
<QueueSize>3000</QueueSize>
```

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ClientTimeout NEW | 5.0.0

Description:	ClientTimeout parameter sets a timeout value in seconds for spell, grammar, and thesaurus requests made by clients to AppServer.
Parameter type:	Number
Default value:	60
Possible values:	60...900 <div style="border: 1px solid #ffc107; padding: 5px; margin-top: 5px;">  It is not recommended to set a ClientTimeout value to more than 900 seconds (15 minutes). </div>

```
<ClientTimeout>60</ClientTimeout>
```

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ServerTimeout NEW | 5.0.0

Description:	ServerTimeout parameter sets a timeout value in seconds for requests made by AppServer to remote servers like user dictionaries server or license servers.
Parameter type:	Number
Default value:	60
Possible values:	10...900 <div style="border: 1px solid #ffc107; padding: 5px; margin-top: 5px;">  It is not recommended to set ServerTimeout value to more than 900 seconds (15 minutes). </div>

```
<ServerTimeout>60</ServerTimeout>
```

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KeepAlive

EnableKeepAlive NEW | 5.0.0

Description:	EnableKeepAlive parameter enables a keep alive connection.
Parameter type:	Boolean

Default value:	true
Possible values:	<ul style="list-style-type: none"> • true • false

```
<EnableKeepAlive>true</EnableKeepAlive>
```

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KeepAliveTimeout NEW | 5.0.0

Description:	KeepAliveTimeout parameter sets a timeout interval for a keep alive connection.
Parameter type:	Number
Default value:	10
Possible values:	

```
<KeepAliveTimeout>10</KeepAliveTimeout>
```

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MaxKeepAliveRequests NEW | 5.0.0

Description:	MaxKeepAliveRequests parameter sets a maximum number of keep-alive requests.
Parameter type:	Number
Default value:	0
Possible values:	<ul style="list-style-type: none"> • 0 – unlimited number of requests. • 1..N_m

```
<MaxKeepAliveRequests>0</MaxKeepAliveRequests>
```

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SSL

EnableSSL NEW | 5.0.0

Description:	EnableSSL parameter defines whether a secure connection should be enabled.
Parameter type:	Boolean
Default value:	false
Possible values:	<ul style="list-style-type: none"> • true • false

```
<EnableSSL>false</EnableSSL>
```

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TLSVersion NEW | 5.0.0

Description:	TLSVersion parameter sets a specific version of Transport Layer Security (TLS).
Parameter type:	String
Default value:	TLSV1_2
Possible values:	<ul style="list-style-type: none">• TLSV1• TLSV1_1• TLSV1_2

```
<TLSVersion>TLSV1_2</TLSVersion>
```

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SSLCertificateFile NEW | 5.0.0

Description:	SSLCertificateFile parameter specifies a path to an SSL certificate file.
Parameter type:	String
Default value:	None
Possible values:	<ul style="list-style-type: none">• Linux-based servers: Path to a certificate file in a *.pem format, e.g. "/opt/WSC/AppServer/cert.pem"• Windows-based servers: Path to a certain file in a *.pfx format (PKCS #12) containing a certificate and corresponding private key accordingly, e.g. "C:/Program Files/WebSpellChecker/AppServer/certificate.pfx"

```
<SSLCertificateFile></SSLCertificateFile>
```

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SSLCertificateKeyFile NEW | 5.0.0

Description:	SSLCertificateKeyFile parameter specifies a path to a private key file in a *.pem format. This parameter is intended only for Linux-based environments.
Parameter type:	String
Default value:	None
Possible values:	"/opt/WSC/AppServer/key.pem"

```
<SSLCertificateKeyFile></SSLCertificateKeyFile>
```

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SSLCertificatePassword NEW | 5.3.1

Description:	SSLCertificatePassword parameter specifies a pass of SSL certificate. Some of SSL certificates are exported with passwords.
Parameter type:	String
Default value:	None
Possible values:	Any

```
<SSLCertificatePassword></SSLCertificatePassword>
```

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License

LicenseServer

UPDATED | 5.0.0

Description:	LicenseServer parameter defines a license server where AppServer will call when its license expired asking for a new license.
Parameter type:	String
Default value:	127.0.0.1
Possible values:	Server host:port which is used as a license server.

```
<LicServer>127.0.0.1</LicServer>
```

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LicenseWarning

Description:	LicenseWarning parameter sets a time interval before the license expiration after which AppServer attempts to request a new license.
Parameter type:	Time
Default value:	0.0:5:0
Possible values:	days.hours:minutes:seconds

```
<LicenseWarning>0.0:5:0</LicenseWarning>
```

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FailSafety

MinRestartInterval

De s c r i p t i o n:	MinRestartInterval parameters sets a minimal interval value in seconds between restarts of the second cascade process. Before starting a new process, a process thread will check the time when the replaceable process has started and failed. If the time from start to failure doesn't exceed the minimal interval value, a new process thread will wait until it is reached and then start a new process. Such an approach helps to avoid an endless loop of starting processes that might cause nearly 100% CPU consumption.
P a r a m e t e r t y p e:	Number
D e f a u l t v a l u e:	10
P o s s i b l e v a l u e s:	1..60

```
<MinRestartInterval>10</MinRestartInterval>
```

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CascadeSize

Des c r i p t i o n:	CascadeSize parameter defines a number of processes in the second cascade that will be running simultaneously. The monitoring process will try to keep the number of processes in the second cascade constant regardless any failures in the processes.
Par a m e t e r t y p e:	Number
Def a u l t v a l u e:	2

Possible values:

0..3



It is suggested not to have more than 3 processes in the second cascade.

```
<CascadeSize>2</CascadeSize>
```

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WaitShutdownInterval

Description:	WaitShutdownInterval parameter sets a time interval value in seconds for the second child process to wait before it will be shut down gracefully. If the process is not shutting down during this period of time, it is allowed to terminate it.
Parameter type:	Number
Default value:	60
Possible values:	0..120



It is suggested to keep the default value provided.

```
<WaitShutdownInterval>60</WaitShutdownInterval>
```

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CheckTimeout

Description:	CheckTimeout parameter sets a timeout interval value in seconds between sequential check calls to the active process in the second cascade.
Parameter type:	Number
Default value:	5
Possible values:	1..5

```
<CheckTimeout>5</CheckTimeout>
```

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WaitResponseTimeout

Description:	WaitResponseTimeout parameter sets a timeout interval value in seconds for the controlling process to wait for a response from a child process. If no response within the specified time, the controlling process will decide that a child process hang up and start termination of all child processes one-by-one.
Parameter type:	Number
Default value:	60
Possible values:	10..600

```
<WaitResponseTimeout>60</WaitResponseTimeout>
```

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InitialPause

Description:	InitialPause parameter sets a pause value in seconds when to begin monitoring processes which are starting.
Parameter type:	Number
Default value:	20
Possible values:	1..60

```
<InitialPause>20</InitialPause>
```

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Log

The description of all the available parameters for log(s) files.

Size


Description:	Size parameter defines the maximum size of the AppServerX.log file in kilobytes. If the maximum size is reached, a new log file will be created and the previous one will be saved with an appropriate time stamp (log rotation).
Parameter type:	Number
Default value:	10000

Possible values:	1..2*10 ⁶ , where 2*10 is 2GB.
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```
<Size>10000</Size>
```

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PrioritizationLevel UPDATED | 5.0.0

Description:	PrioritizationLevel parameter sets a log level for notifications that will be recorded in the log file.
Parameter type:	String
Default value:	information
Possible values:	<ul style="list-style-type: none"> • none – no logs' information will be recorded to the log file. • fatal • critical – very severe error events that will presumably lead the application to abort. • error – error events that might still allow the application to continue running; • warning • notice • information – important information that should be logged under normal conditions such as successful initialization, services starting and stopping etc.; • debug – fine-grained informational events that are most useful to debug an application; • trace – more detailed code debugging information. <div style="border: 1px solid #FFC107; padding: 5px; margin-top: 10px;"> <p> The log levels are ordered by their priority from the highest to the lowest accordingly. For example, if the default value for PrioritizationLevel is set to "information" then not only information notifications will be recorded in the log file but also notifications from its all the preceding log levels such as notice, warning, error, critical and fatal.</p> </div>

```
<PrioritizationLevel>information</PrioritizationLevel>
```

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Subsystems UPDATED | 5.0.0

Description:	Subsystems parameter defines for which subsystems of AppServer the logging will be performed.
Parameter type:	Array
Default value:	all

Possible values:	<ul style="list-style-type: none"> • all – all log messages from all subsystems; • general – log messages about the state of AppServer, spellcheck, grammar, thesaurus, languages, dictionaries, etc. • threadpool – log messages related to managing of threads; • licensing – log messages related to licensing; • failsafe – log messages about fail safety subsystem; • selector – log messages from a listening thread; • responder – log messages from a sender thread.
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```
<Subsystems>all</Subsystems>
```

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SaveRequestStatistic

Description:	<p>SaveRequestStatistic parameter regulates whether the service usage statistics should be logged.</p> <p>The usage statistics information is the general information about date and time of a request, domain, service ID, N of a session, type of command (spellcheck, grammar_check, get_suggestions and etc), user agent, language, look&feel.</p> <p>This type of the information might be useful if there is a need to monitor usage statistics of the WebSpellChecker services.</p>
Parameter type:	Boolean
Default value:	OFF
Possible values:	ON, OFF

```
<SaveRequestStatistic>OFF</SaveRequestStatistic>
```

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RequestStatisticFilePath UPDATED | 5.0.0

Description:	RequestStatisticFilePath parameter sets a path to a *.log file with requests statistics.
Parameter type:	String
Default value:	Logs/RequestStatistic.log
Possible values:	Path to a log file with requests statistics.

```
<RequestStatisticFilePath>Logs/RequestStatistic.log</RequestStatisticFilePath>
```

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SpellCheckEngine

MaxErrorsPercentToSuggest

Description:	MaxErrorsPercentToSuggest parameter defines a percent (%) of misspelled words that will be processed by the engine and suggestions will be provided for.
Parameter type:	Number
Default value:	100
Possible values:	1..100

```
<MaxErrorsPercentToSuggest>100</MaxErrorsPercentToSuggest>
```

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MinQueryLengthToSkipSuggest

Description:	MinQueryLengthToSkipSuggest parameter sets the minimum number of words in a request which will be processed. This parameter is related to MaxErrorsPercentToSuggest.
Parameter type:	Number
Default value:	11
Possible values:	2.. N_m

```
<MinQueryLengthToSkipSuggest>11</MinQueryLengthToSkipSuggest>
```

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SimpleCacheSize

UPDATED | 5.0.0

Description:	SimpleCacheSize parameter defines a number of suggestions that will be cached in the memory (RAM).
Parameter type:	Number
Default value:	10000
Possible values:	0.. N_m , where N_m is a number of suggestions stored in the cache. Depending on the RAM size this value may vary from 1,000 to 10,000+.



This parameter is disabled by default due to the custom dictionary functionality. It can be enabled if the custom dictionary functionality is not used or the same for all users. It is available for all languages including default and additional ones. This is a recommended parameter for the Server version of the application.

```
<SimpleCacheSize>10000</SimpleCacheSize>
```

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SuggestDepth

Description:	SuggestDepth parameter controls the depth and therefore the processing time of the engine to look for and generate proper suggestions.
Parameter type:	Number
Default value:	80
Possible values:	1..100



The depth ranges from 0 which stands for the fastest processing time with least relevant suggestions to 100 which stands for the slowest processing time with the most relevant suggestions. Thus, if the processing time is not a problem, you can set 100 get the best set of suggestions for a misspelled word.

For languages with huge wordlists, over several million, such as Brazilian Portuguese or German, it is highly recommended to set the SuggestDepth parameter default value to 30-50. This will help to improve the overall system performance without tangible losses of suggestions quality.

```
<SuggestDepth>80</SuggestDepth>
```

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MaxSuggestions

UPDATED | 5.0.0

Description:	MaxSuggestions parameter sets a maximum number of suggestions for each misspelled word that will be determined by the engine.
Parameter type:	Number
Default value:	8
Possible values:	0.. N_m , where N_m is a maximal possible number (an integer) of suggestions.




The overall system performance might be affected if the MaxSuggestion value is much higher than a given default value. The more suggestions the system is required to provide, the more time will be needed to process the text, detect errors and provide suggestions accordingly.

```
<MaxSuggestions>8</MaxSuggestions>
```

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SSCELock

Description:	SSCELock parameter regulates when SSCE spell checking engine should be running in a single thread instead of using multiply threads.
Parameter type:	Boolean
Default value:	OFF
Possible values:	ON, OFF

 It is recommended to have SSCELock parameter disabled to allow the engine process requests in multiply threads. Enabling this parameter might lead to significant performance degradation.

<SSCELock>OFF</SSCELock>

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SSCE (SpellCheck Engine Options)

AllowAccentedCaps

Description:	AllowAccentedCaps parameter determines whether capital letters words containing accents should be accepted "correct" or considered as misspelled ones.
Parameter type:	Boolean
Default value:	1
Possible values:	<ul style="list-style-type: none"> • 0 – words containing accented capitals are considered misspelled; • 1 – capital letters words containing accents are considered as correct ones.



If the default spell checking language is French or Canadian French, AllowAccentedCaps should be set to 0. For other cases, it is recommended to keep AllowAccentedCaps set to 1. Otherwise, with 0, you might experience slight performance degradation.

<AllowAccentedCaps>1</AllowAccentedCaps>

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IgnoreCappedWord

Description:	IgnoreCappedWord parameter defines whether words which start from a capital letter should be ignored or checked for any spelling errors.
Parameter type:	Boolean
Default value:	0

Possible values:	<ul style="list-style-type: none"> • 0 – words which start from a capital letter are checked for spelling errors; • 1 – words which start from a capital letter are ignored.
------------------	--

```
<IgnoreCappedWord>0</IgnoreCappedWord>
```

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IgnoreAllCapsWord

Description:	IgnoreAllCapsWord parameters defines whether capitalized words, all letters are capital, should be ignored or checked for any spelling errors.
Parameter Type:	Boolean
Default value:	1
Possible values:	<ul style="list-style-type: none"> • 0 – all caps words are checked for spelling errors; • 1 – all caps words are ignored.

```
<IgnoreAllCapsWord>1</IgnoreAllCapsWord>
```

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IgnoreDomainNames

Description:	IgnoreDomainNames parameter regulates whether to ignore domain names and web addresses or not. The words are considered to be domain names if they contain at least one "dot" (".") and at least two alpha-numeric characters in a row.
Parameter type:	Boolean
Default value:	0
Possible values:	<ul style="list-style-type: none"> • 0 – domain names and web addresses are checked for spelling errors; • 1 – domain names and web addresses are ignored.

```
<IgnoreDomainNames>0</IgnoreDomainNames>
```

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IgnoreHtmlMarkups

Description:	IgnoreHtmlMarkups parameter regulates whether the text that is a part of HTML markup should be checked for spelling errors or ignored.
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Parameter type:	Boolean
Default value:	0
Possible values:	<ul style="list-style-type: none"> • 0 – HTML tags and content surrounded by start and end tags are checked for spelling errors; • 1 – HTML tags are ignored and only the content surrounded by start and end tags is checked for spelling errors. Any text surrounded by angle brackets (<...>) or the text following an ampersand (&) until a semicolon (;) will be ignored. <p>In the code sample below, with the default value set to 1, the text that will be checked for any spelling errors is “<i>Check your grammar and spelling mistakes as you types.</i>”. The text surrounded by angle brackets will be ignored: <div class="text-container" id="scayt-div" contenteditable="true"> , <h3>, </h3> and </div>.</p> <pre><div class="text-container" id="scayt-div" contenteditable="true"> <h3>Check your grammar and spelling mistakes as you types.</h3> </div></pre>

```
<IgnoreHtmlMarkups>0</IgnoreHtmlMarkups>
```

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IgnoreMixedCase

Description:	IgnoreMixedCase parameter regulates whether words containing mixed case letters (CamelCase) should be ignored.
Parameter type:	Boolean
Default value:	0
Possible values:	<ul style="list-style-type: none"> • 0 – words with mixed case letters are checked for spelling errors. • 1 – words with mixed case letters are ignored.

```
<IgnoreMixedCase>0</IgnoreMixedCase>
```

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IgnoreMixedDigits

Description:	IgnoreMixedDigits parameter regulates whether words containing digits should be ignored.
Parameter type:	Boolean
Default value:	1 (for WSC v.5.3.0 and higher)

Possible values:	<ul style="list-style-type: none">• 0 – words with numbers are checked for spelling errors;• 1 – words with numbers are ignored and determined as correct.
------------------	---

```
<IgnoreMixedDigits>1</IgnoreMixedDigits>
```

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IgnoreNonAlphaWord

Description:	IgnoreNonAlphaWord parameter regulates whether words containing no alphabetic characters should be ignored.
Parameter type:	Boolean
Default value:	1
Possible values:	<ul style="list-style-type: none">• 0 – words containing no alphabetic characters are checked for spelling errors.• 1 – words containing no alphabetic characters are ignored. For example, "991" is ignored.

```
<IgnoreNonAlphaWord>1</IgnoreNonAlphaWord>
```

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ReportMixedCase

Description:	ReportMixedCase parameter regulates whether words with the mixed case should be reported.
Parameter type:	Boolean
Default value:	0
Possible values:	<ul style="list-style-type: none">• 0 – words containing mixed case letters are reported;• 1 – words containing mixed case letters are ignored.

```
<ReportMixedCase>0</ReportMixedCase>
```

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ReportDoubledWord

Description:	ReportDoubledWord parameter regulates whether two occurrences of the same word in a row should be reported.
Parameter type:	Boolean
Default value:	0

Possible values:	<ul style="list-style-type: none"> • 0 – doubled words are not reported; • 1 – doubled words are reported.
------------------	--

```
<ReportDoubledWord>0</ReportDoubledWord>
```

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ReportMixedDigits

Description:	ReportMixedDigits parameter regulates whether words containing a combination of letters and digits should be reported.
Parameter type:	Boolean
Default value:	1
Possible values:	<ul style="list-style-type: none"> • 0 – words containing a combination of letters and digits are not reported. • 1 – words containing a combination of letters and digits are reported.

```
<ReportMixedDigits>0</ReportMixedDigits>
```

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ReportUncapped

Description:	ReportUncapped parameter regulates whether uncapped words which are present in the dictionaries in capitalized form only should be reported.
Parameter type:	Boolean
Default value:	1
Possible values:	<ul style="list-style-type: none"> • 0 – words containing no alphabetic characters are checked for spelling errors. • 1 – uncapped words which are present in the dictionaries in capitalized form only are reported. For example, "ukraine" is reported.


```
<ReportUncapped>1</ReportUncapped>
```

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CaseSensitive

Description:	CaseSensitive parameter regulates whether words with different letter-case patterns should be treated as different words.
Parameter type:	Boolean
Default value:	1

Possible values:	<ul style="list-style-type: none"> • 0 – words containing different case patterns are treated as identical. Example: “<i>WebSpellChecker</i>” and “<i>webspellchecker</i>” are identical words. • 1 – words containing different case patterns are treated as two separate words.
------------------	---

 Setting the default value to 0 will degrade system performance.

<CaseSensitive>1</CaseSensitive>

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SplitHyphenatedWords

Description:	SplitHyphenatedWords parameter regulates whether hyphens (“-”) should be treated as words separators where each sub-word is checked individually.
Parameter type:	Boolean
Default value:	1
Possible values:	<ul style="list-style-type: none"> • 0 – hyphenated words are checked as single words. • 1 – hyphens are treated as word separators, and each sub-word is checked individually. This type of words splitting takes place only if the hyphenated form of the word does not exist. The word is considered to be correct if all its sub-words are correctly spelled.

<SplitHyphenatedWords>1</SplitHyphenatedWords>

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SplitContractedWords

Description:	SplitContractedWords parameter regulates whether apostrophes should if necessary be treated as word separators, and each sub-word is checked individually.
Parameter type:	Boolean
Default value:	0
Possible values:	<ul style="list-style-type: none"> • 0 – words with apostrophes are checked as single words. • 1 – apostrophes are treated as words separators, and each sub-word checked individually. This word splitting will take place if the contracted form of the word is not found in the dictionary. In this case, the word will be considered as a correct if all its sub-words are correctly spelled.



SplitContractedWords option is intended for use with the languages which allow ad hoc contractions (e.g. French, Italian).

```
<SplitContractedWords>0</SplitContractedWords>
```

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SplitWords

D e s c r i p t i o n:	SplitWords parameter regulates whether words if necessary should be treated as series of concatenated sub-words, and each sub-word is checked individually.
P a r a m e t e r t y p e:	Boolean
D e f a u l t v a l u e:	0
P o s s i b l e v a l u e s:	<ul style="list-style-type: none"> • 0 – words are checked entirely for spelling errors. • 1 – words if necessary are treated as series of concatenated sub-words, and each their sub-words are checked individually. Such words splitting takes place only if the original word is not found in the dictionary. In this case, the word will be considered as a correct if all its words containing two or more words are correctly spelled. For example, “<i>dumptruckdriver</i>” was not found in the dictionary, the engine makes an attempt to locate its valid sub-words (“<i>dump</i>”, “<i>truck</i>”, and “<i>driver</i>”). If all its sub-words are correctly spelled then the word “<i>dumptruckdriver</i>” will be considered as a correct one.



SplitWords option is intended for the use with languages which allow ad hoc concatenation of words (e.g. German, Finish, Danish, Swedish, Norwegian Bokmal).

```
<SplitWords>0</SplitWords>
```

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StripPossessives

Description:	StripPossessives parameter regulates whether possessive words endings 's and s' should be removed from the words before check spelling.
Parameter type:	Boolean
Default value:	1
Possible values:	<ul style="list-style-type: none"> • 0 – possessive words forms are checked for spelling. • 1 – possessives of the form 's and s' are removed from words before check spelling.



By default, the main language dictionaries do not contain possessive forms of words. Thus, it is highly recommended to have the StripPossessives parameter enabled.

```
<StripPossessives>1</StripPossessives>
```

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SuggestPhonetic

Description:	SuggestPhonetic parameter regulates whether corrections for misspelled words should be searched and suggested based on the phonetic (sounds-like) similarity.
Parameter type:	Boolean
Default value:	0
Possible values:	<ul style="list-style-type: none"> • 0 – corrections are not search based on the phonetic similarity. • 1 – corrections for misspellings are searched and suggested based on the phonetic similarity.



The SuggestPhonetic and SuggestTypographical parameters are interconnected. Only one of these parameters can be enabled at a time. The typographical suggestions are enabled by default and have higher priority over phonetic suggestions. Thus, if you prefer to have suggestions given based on the phonetic similarity, you need to turn off typographical suggestions.

```
<SuggestPhonetic>0</SuggestPhonetic>
```

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SuggestTypographical

Description:	SuggestTypographical parameter regulates whether corrections for misspelled words should be searched and suggested based on the typographical similarity.
Parameter type:	Boolean
Default value:	1

Possible values:	<ul style="list-style-type: none"> • 0 – corrections are not search based on the typographical similarity. • 1 – corrections for misspellings are searched and suggested based on the typographical similarity.
------------------	---

```
<SuggestTypographical>1</SuggestTypographical>
```

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SuggestSplitWords

Description:	SuggestSplitWords parameter regulates whether the engine should attempt to split suggested words into two valid sub-words.
Parameter type:	Boolean
Default value:	1
Possible values:	<ul style="list-style-type: none"> • 0 – slit words are not suggested. • 1 – suggested words can be split into two valid sub-words. For example, “<i>theboy</i>”, one of its suggestions will be “<i>the boy</i>”.

```
<SuggestSplitWords>1</SuggestSplitWords>
```

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GrammarCheckEngine

GrammarCheckProvider UPDATED | 5.0.0

Description:	GrammarCheckProvider parameter sets a default grammar engine provider.
Parameter type:	String
Default value:	langtool
Possible values:	langtool, atd, mixed

```
<GrammarCheckProvider>langtool</GrammarCheckProvider>
```

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PathToJavaVirtualMachine NEW | 5.0.0

Description:	PathToJavaVirtualMachine parameter sets a path to Java Virtual Machine (JVM).
Parameter type:	String

Default value:	None AppServer will try to autodetect the path to JVM.
Possible values:	<ul style="list-style-type: none"> Path to JVM on Linux-based environments: '/usr/lib/jvm/java-8-oracle/jre/lib/amd64/server/libjvm.so' Path to JVM on Windows-based environments: 'C:/Program Files/Java/jre1.8.0_121/bin/server/jvm.dll'



At least Java 8 is required for use of LanguageTool grammar engine.

```
<PathToJavaVirtualMachine></PathToJavaVirtualMachine>
```

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JVMMaxMemorySizeMb

NEW | 5.0.0

Description:	JVMMaxMemorySizeMb parameter sets a maximum heap size in megabytes for LanguageTool in Java Virtual Machine (JVM).
Parameter type:	Number
Default value:	256
Possible values:	<p>64...N_m</p> <div style="border: 1px solid #ccc; padding: 10px; margin-top: 10px;"> <ul style="list-style-type: none"> 64MB is the minimum possible size that can be used by LanguageTool in JVM but for a single language (e.g. English grammar checking). N_m value will be higher as more grammar languages will be enabled. The maximum allowed value directly depends on the available RAM. In general, 512MB will be sufficient for LanguageTool in JVM for all supported grammar languages. </div>

```
<JVMMaxMemorySizeMb>256</JVMMaxMemorySizeMb>
```

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MixedProvider

INACTIVE

Description:	MixedProvider tag is used to define several grammar engine providers and determine special rules for each engine to process certain grammar problems.
Parameter type:	String
Default value:	None


```
<MixedProvider>
  <Providers>atd,langtool</Providers>
  <CustomPrioritiesFile>CustomPriorities.xml</CustomPrioritiesFile>
</MixedProvider>
```

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ATDProvider INACTIVE

Description:	ATDProvider parameter defines an address of the external After the Deadline (ATD) grammar engine that can be used for grammar checking requests processing in a bundle with WebSpellChecker.
Parameter type:	String
Default value:	localhost:1049
Possible values:	ATD server's host:port

```
<ATDProvider>localhost:1049</ATDProvider>
```

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GrammarIgnoreDictFile INACTIVE

Description:	GrammarIgnoreDictFile parameter sets a path to a special file with list of grammar problems IDs comma separated that should be ignored.
Parameter type:	String
Default value:	grammar_ignore.txt
Possible values:	Path to a custom directory with a special file *.txt file with grammar rules to ignore.

```
<GrammarIgnoreDictFile>grammar_ignore.txt</GrammarIgnoreDictFile>
```

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ThesaurusEngine

ThesaurusProvider

Description:	ThesaurusProvider parameter specifies a provider of a Thesaurus engine that will be used for the Thesaurus tool functionality.
Parameter type:	String

Default value:	ssce
Possible values:	N/A

```
<ThesaurusProvider>ssce</ThesaurusProvider>
```

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Dictionaries

LangDictDir UPDATED | 5.0.0

Description:	LangDictDir parameter defines a path to the directory with available default language dictionaries.
Parameter type:	String
Default value:	LanguageDictionaries
Possible values:	Path to a custom directory with language dictionaries.

```
<LangDictDir>LanguageDictionaries</LangDictDir>
```

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SCNCDictionaryFolders INACTIVE

Description:	SCNCDictionaryFolders parameter defines a name of the directory where language dictionaries of the SCNC engine will be stored.
Parameter type:	String
Default value:	dicts
Possible values:	Path to a custom directory with language dictionaries used by the SCNC spellcheck engine.

```
<SCNCDictionaryFolders>
    <Folder>dicts</Folder>
</SCNCDictionaryFolders>
```

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UserDictionaries

UserDictDir UPDATED | 5.0.0

Description:	UserDictDir parameter defines a path to the directory where all created personal user dictionaries will be stored.
--------------	---

Parameter type:	String
Default value:	UserDictionaries
Possible values:	Path to a custom directory with user dictionaries files.

```
<UserDictDir>UserDictionaries</UserDictDir>
```

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UserDictServers UPDATED | 5.0.0

Description:	UserDictServers parameter defines a path to a remote server where user dictionaries should be stored and where to send the user dictionary requests accordingly.
Parameter type:	String
Default value:	localhost
Possible values:	host:port

```
<UserDictServers>
  <host>localhost</host>
</UserDictServers>
```

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UDSeparationByCIDEnabled INACTIVE

Description:	UDSeparationByCIDEnabled parameter enables user dictionaries separation by customer ID in the UserDict directory.
Parameter type:	Boolean
Default value:	1
Possible values:	<ul style="list-style-type: none"> 0 – user dictionaries separation is disabled. 1 – user dictionaries separation is enabled. A new sub-directory will be created for each customer ID in the UserDict directory.

```
<UDSeparationByCIDEnabled>1</UDSeparationByCIDEnabled>
```

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PathToMainCIDFile INACTIVE

Description:	PathToMainCIDFile parameter defines a path to the main file with customer IDs.
Parameter type:	String

Default value:	main_cid.ini
Possible values:	None



The parameter joins several customer IDs. Values: path to .ini file. Content of .ini file for a customer that has 3 customer IDs: customerid maincid short_CID_1 short_CID_3 short_CID_2 sort_CID_3.

```
<PathToMainCIDFile>main_cid.ini</PathToMainCIDFile>
```

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CustomDictionaries

CustDictDir UPDATED | 5.0.0

Description:	CustDictDir parameter defines a path to the directory where all created custom dictionaries will be stored.
Parameter type:	String
Default value:	CustomDictionaries
Possible values:	Path to a custom directory with custom dictionaries files.

```
<CustDictDir>CustomDictionaries</CustDictDir>
```

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CustDictConfig UPDATED | 5.0.0

Description:	CustDictConfig parameter defines a path to a configuration *.xml file which will be used for storing records about created custom dictionaries.
Parameter type:	String
Default value:	CustDictConfig.xml
Possible values:	Path to a custom directory with *.xml file.

```
<CustDictConfig>CustDictConfig.xml</CustDictConfig>
```

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CustDictReloadOnFly UPDATED | 5.0.0

Description:	CustDictReloadOnFly parameter defines whether custom dictionaries should be reloaded automatically "on the fly" upon any changes.
--------------	--

Parameter type:	Boolean
Default value:	ON
Possible values:	ON – custom dictionaries are reloaded. OFF – custom dictionaries are not reloaded automatically.

```
<CustDictReloadOnFly>ON</CustDictReloadOnFly>
```

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Languages

Language

Description:	Language parameter defines a language ID, alias, and its options.
Parameter type:	String
Default value:	en_US
Possible values:	<ul style="list-style-type: none"> • Default languages short codes; • Additional languages short code.

```
<Language Id="en_US">
</Language>
```

Above all this, each language tag may have a list of sub-tags which allows defining additional language configuration specific to a particular language.

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Alias

Description:	Alias parameter sets an alias, a language short name, which can be used when calling a language.
Parameter type:	String
Default value:	N/A
Possible values:	Any string associated with a particular language, e.g. alias name for American English is "am".

```
<Language Id="en_US">
    <Alias>am</Alias>
</Language>
```

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GrammarCheckProvider

Description:	GrammarCheckProvider parameter sets a default grammar engine provider.
--------------	---

Parameter type:	String
Default value:	langtool
Possible values:	langtool, atd, mixed

```
<GrammarCheckProvider>langtool</GrammarCheckProvider>
```

```
<Language Id="en_US"> <Alias>am</Alias> <GrammarProvider>langtool<
/GrammarProvider> </Language>
```

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GrammarProviderOptions

Description:	GrammarCheckProviderOptions defines grammar engine options, such as a language.
Parameter type:	String
Default value:	N/A
Possible values:	language=en

```
<Language Id="en_US">
  <Alias>am</Alias>
  <GrammarCheckProvider>langtool</GrammarProvider>
  <GrammarCheckProviderOptions>language=en</GrammarProviderOptions>
</Language>
```

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SpellEngineOptions

SpellEngineOptions parameter defines spell check engine options that should be applied for a specific language. Any of the parameters "options" described in [SpellCheck Engine Options](#) can be predefined for each language.

Description:	SpellEngineOptions parameter defines spell check engine options that should be applied to a specific language.
Possible sub-tags:	<ul style="list-style-type: none"> • Locale – language short code; • Provider – spellcheck engine provider; • Any of the SpellCheck Engine Options.

```
<Language Id="en_US">
  <Alias>am</Alias>
  <GrammarProvider>langtool</GrammarProvider>
  <GrammarProviderOptions>language=en</GrammarProviderOptions>
  <SpellEngineOptions>
    <Locale>en_US</Locale>
    <Provider>enchant</Provider>
  </SpellEngineOptions>
</Language>
```

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