

GENESYS

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Genesys Rules System Deployment Guide

GRS Configuration Options

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log

Description	Valid values	Default value	Takes effect
all			
	 stdout—Log events are sent to the Standard output (stdout). stderr—Log events are sent to the Standard error output (stderr). 		
Specifies the outputs to which an application sends all log events. The log output types must be separated by a comma when more than one output is configured. For example: all = stdout, logfile	 network—Log events are sent to Message Server, which can reside anywhere on the network. Message Server stores the log events in the Log Database. Setting the all log level option to the network output enables an application to send log events of the Standard, Interaction, and Trace levels to Message Server. Debug-level log events are neither sent to Message Server nor stored in the Log Database. 	stdout	After restart
	 memory—Log events are sent to the memory output on the local disk. This is the safest output in terms of the application performance. [filename]—Log events are stored in a file with the specified name. If a path is not specified, 		

Description	the file is created in the application's working directory.	Default value	Takes effect
expire			
Determines how many log files will be kept on disk. If set, expire specifies the maximum number of log files kept on disk.	Any number	(blank)	After restart
segment			
Determines whether a log output written to file is split in multiple segments. If it is, segment specifies the maximum size of each segment file.	Any number that represents the log size in megabyte	(blank)	After restart
standard			
Specifies the outputs to which an application sends the log events of the Standard level. The log output types must be separated by a comma when more than one output is configured. For example: standard = stderr, network	 stdout—Log events are sent to the Standard output (stdout). stderr—Log events are sent to the Standard error output (stderr). network— Log events are sent to Message Server, which can reside anywhere on the network. Message Server stores the log events in the Log Database. memory—Log events are sent to the memory output on the local disk. This is the safest output in terms of the application performance. 	stdout	After restart

Description	Valid values	Default value	Takes effect
	• [filename]—Log events are stored in a file with the specified name. If a path is not specified, the file is created in the application's working directory.		
trace (not in application t	emplate by default)		
Specifies the outputs to which an application sends the log events of the Trace level and higher (that is, log events of the Standard, Interaction, and Trace levels). The log outputs must be separated by a comma when more than one output is configured. For example: trace = stderr, network	 stdout—Log events are sent to the Standard output (stdout). stderr—Log events are sent to the Standard error output (stderr). network—Log events are sent to Message Server, which can reside anywhere on the network. Message Server stores the log events in the Log Database. memory—Log events are sent to the memory output on the local disk. This is the safest output in terms of the application performance. [filename]—Log events are stored in a file with the specified name. If a path is not specified, the file is created in the application's working directory. 	stdout	After restart
verbose			
Determines whether a log output is created. If it is, specifies the minimum level of log events generated. The log events levels, starting with	 all—All log events (that is, log events of the Standard, 	standard	After restart

Description	Valid values	Default value	Takes effect
	Trace, Interaction, and Debug levels) are generated. • debug—The same as all. • trace—Log events of the Trace level and higher (that is, log events of the Standard, Interaction, and Trace levels) are generated, but log events of the Debug level are not generated.		
the highest priority level, are Standard, Interaction, Trace, and Debug.	• interaction—Log events of the Interaction level and higher (that is, log events of the Standard and Interaction levels) are generated, but log events of the Trace and Debug levels are not generated.		
	 standard Log events of the Standard level are generated, but log events of the Interaction, Trace, and Debug levels are not generated. none—No output is produced. 		

Settings in GRAT

Description	Valid values	Default value	Takes effect
group-by-level (group ru	iles by business level)		

There are three levels of rules: global, department, and process. With value true, rules are grouped by business level: All global rules belong to agenda group level 0. Department rules belong to agenda group level 1. Process rules belong to agenda group level 1. Process rules belong to agenda group level 1. When a rule package is executed, level 8 rules are executed first. Updates from the department (level 1) rules which are executed in the second pass. Updates from this second pass.
no influence on rule execution.

Description	Valid values	Default value	Takes effect
Specifies the maximum number of different users that may be connected to the server. Multiple connections from the same user ID are only counted once.	Any positive integer	99	After GRAT (re-)start
session-timeout			
Specifies the amount of time (in minutes) a client session can have no communication with the Rules Authoring Server before timing out. If no value is specified, the timeout (if any) defined by the application server applies. If the value is less than or equal to 0, the session will not time out.	Any positive integer	30	Immediately
session-timeout-alert-i	nterval		
The amount of time (in minutes), prior to an expected timeout, for a user to be warned of a pending timeout. If no value is specified, or if the value is less than or equal to 0, the default warning period of 1 minute will be used. For example, if you set the value of this option to 3, the user will be warned 3 minutes prior to an expected timeout. This warning dialog box will prompt the user to extend the session. If the session is not extended, the user will be logged out and the login dialog box will be displayed. Any unsaved changes that the user made during their session will be lost.	Any positive integer	1	Immediately
strict-mode			
This option controls whether or not the rules authoring tool enables strict mode in the DROOLS rule compiler. Strict mode will cause the compiler to catch common mistakes when the rule author attempts to validate or save a rule.	true/false	true	Immediately
	S		

Description	Valid values	Default value	Takes effect
Indicates whether to verify the TCP address of the application deploying rules to be that of an associated Genesys Rules Engine.	true/false	true	Immediately
display-n-template-ver	sions		
Specifies the maximum number of versions to display for any published template.	Minimum value 1	3	Immediately
deploy-response-timeo	ut (not in application temp	late by default)	
Specifies the timeout (in seconds) applied to the deployment of a rule package.	Any positive integer	300	Immediately
require-checkin-comme	ent		
Specifies whether users must add a check-in comment when committing changes to rules. These comments show up when viewing package history. If the value is set to false (default), users can save changes to rules without specifying a comment.	true/false	false	Immediately
force-snapshot-on-dep	loyment		
Specifies whether users can deploy only a package snapshot. If the value is true, users can only deploy a package snapshot. If false (default), users can deploy either the LATEST package or a snapshot.	true/false	false	Immediately
encoding (not in applicat	ion template by default)		
Activates Unicode support for the conversion of data between the local character set that is used by Configuration Manager and the UTF-8 encoding that is used by the Rules Authoring Server. By default, code page conversion is disabled. To activate this functionality, set this option to the name			After GRAT restart

Description	Valid values	Default value	Takes effect
of a converter that can translate the local character set to UTF format. The converter that is suitable for a particular deployment can be found by using the ICU Converter Explorer. There is no default value for this option. For valid values, see the ICU Home > Converter Explorer pages (http://demo.icu-project.org/icu-bin/convexp).			
clear-repository-cache			
The GRAT server builds and maintains a cache of the rules repository database (for example, index files, and so on), and stores this on the file system under WEB-INF/ classes/repository. The cache improves performance when accessing frequently used rules, calendars, and so on. However, this cache must stay synchronized with the rules repository database. Normally, if GRAT is restarted, it re-uses the existing cache, which is synchronized with the rules repository database. In this case, the clear-repository-option should be set to false (default). However, if you are configuring a second GRAT for warm standby (see High Availability Support), this option should be set to true for both the primary and the standby instances of GRAT. Since either GRAT could be brought online in the event of a failure, this option forces GRAT always to rebuild the cache and re-synchronize it with the rules repository database. Setting this option to true can delay the startup of GRAT, since the cache must be rebuilt, but it ensures that it is properly synchronized with the rules repository database.	true/false	false	After GRAT (re-)start
evaluate-decision-table	e-rows-top-down (new in	8.5.0)	

Description	Valid values	Default value	Takes effect
Determines the order that the Decision Table rows are written out to the DRL. The default value is false, meaning that the rows are executed from the bottom up. If you change this default option, the behavior of GRAT's Test Scenario feature changes immedately, but you will need to re-deploy the rule package in order for the change to be observed in GRE.	true/false	false	Immediately
single-sign-on (new in 8	.5.0)		
Note: This configuration option should only be used when deploying in a Genesys Engage cloud single-sign on environment, and does not apply for Genesys on-premise customers deploying GRS. Indicates the login method: either single sign-on, or legacy login. With value false, the /index.jsp page will redirect to /login.jsp for legacy user login. With value true, then /index.jsp will redirect to /singlesignon.	true/false	false	After GRAT (re-)start
link-to-hub (new in 8.5.0))		
Note: This configuration option should only be used when deploying in a Genesys Engage cloud single-sign on environment, and does not apply for Genesys on-premise customers deploying GRS. This option specifies the URL to which GRAT should redirect once the GRAT SSO session completes. This URL is used in two situations:			
 First, when the user clicks the log out button in GRAT, the browser will be redirected to this URL. Second, if an SSO login is successful but the subsequent login to Configuration Server fails, then an error 	string	No default value	After GRAT (re-)start

Description	Valid values	Default value	Takes effect
box is displayed to the user. Once the error box is dismissed, the browser will be redirected to the specified URL. Note: The user must have logged in via SSO for this to			
occur.			
decision-table-enable-v	wildcards (new in 8.5.001)		
Controls whether the wild card feature is enabled in decision tables.	true/false	true	After GRAT (re-)start
help-file-url (new in 8.5.	001)		
Specifies the base URL location of online help for GRAT. You can specify a local protected URL to install the wiki Help files if your organization prefers.	String	http://docs.genesys.com/ Special:GRATHelp	After GRAT (re-)start
use-legacy-language-pa	ack-webhelp (new in 8.5.0	001)	
With value true, when the GRAT user clicks the Help button in non-English environments, GRAT will use the legacy WebHelp files shipped with the various language packs. These legacy files may not reflect the full set of current functionality. With value false (default), GRAT will retrieve online Help from the docs.genesys.com website in the desired language (if available).	true/false	false	After GRAT (re-)start
context-services-rest-a	pi-protocol (new in 8.5.00	1)	
The protocol that GRAT uses for the Context Services metadata REST API. Valid values are: • http • https	http, https	http	After GRAT (re-)start
context-services-rest-api-host (new in 8.5.001)			
The hostname of the Context	String		After GRAT (re-)start

Description	Valid values	Default value	Takes effect
Services that GRAT connects to.			
context-services-rest-a	pi-port (new in 8.5.001)		
The port of the Context Services metadata API	String		After GRAT (re-)start
context-services-rest-a	pi-base-path (new in 8.5.	001)	
The base path of the Context Services API.		11	After GRAT (re-)start
list-object-use-name (n	ew in 8.5.001.21)		
Enables users to control whether either the name or the display name of a Configuration Server list object is encoded in the DROOLS rule file.		true/false	After GRAT (re-)start

Settings in GRE

Description	Valid values	Default value	Takes effect
deployed-rules-director	ry		
Specifies the directory in which to keep the working copy of deployed rule packages. When a package is deployed, a copy of the deployed package is placed here. When the rules engine is restarted, all packages defined in this directory are loaded and made available for execution. Specifying a deployed-rules-directory is recommended. If a value is not assigned to the deployed-rules-directory, the rule packages are placed in the WEB-INF\config sub-directory within the genesys-rules-engine web application directory. At this location the deployed rule packages may be deleted when an updated .war file is deployed. If you choose to change the default value, ensure that the		/GCTI/logs/GRS_Engine	After restart

Description	Valid values	Default value	Takes effect		
path exists and that the application server can write to the specified directory.					
max-number-rule-exect	utions				
The maximum number of rules to be executed during a request. This is used to detect unwanted recursion when sequential-mode is false. If this maximum is reached an error is reported. May be set to -1 to denote no maximum.	Any positive integer or -1	10,000	Next rules execution		
sequential-mode					
Indicates whether to run the rules engine in sequential mode. In sequential mode, after the initial data set, no more data can be inserted or modified. This allows for the rules engine to operate in a simplified way.	true/false	false	On rules deployment		
verify-deployer-addres	S				
Indicates whether to verify the TCP address of the application deploying rules to be that of an associated Genesys Rules Authoring Tool.	true/false	true	Immediately		
esp-worker-threads					
Specifies the maximum number of worker threads available when using the ESP interface to execute rules.	Any positive integer	5	Immediately		
load-packages-on-start	load-packages-on-start				
Indicates whether to load deployed rule packages at application start up. If packages are not loaded at startup (value=false), then a package is loaded on its first execution request.	true/false	true	Immediately		
json-hierarchical-driver					
With value true, the JsonHierarchicalStreamDrive class is used to serialize JSON responses. With value false,	r true/false	false	Immediately		

Description	Valid values	Default value	Takes effect			
the JettisonMappedXmlDriver class is used. The Jettison driver is unaware of the original data type and will try to detect numerical values and omit the quotes, whereas the JsonHierarchicalStreamDrive will maintain the data type.	r					
cache-operational-parameters (new in 8.5.0)						
Operational parameters are rule parameters whose value is obtained at rule execution time. They are configured in GAX as Parameter Groups, and stored in the Configuration Server database. Prior to 8.5, whenever an operational parameter was referenced during the execution of a rule, GRE would fetch the current value from Configuration Server. In high-volume environments, this could put unnecessary stress on Configuration Server. In GRS 8.5, the value of the operational parameters can be cached inside GRE, to make fetching faster. Instead of fetching the value with each reference, GRE will set up a listener to Configuration server and maintain the value in a local cache. When the administrator changes the value of the parameter using GAX, GRE will receive an event and update its local cache. If cache-operational-parameters is set to true (default), this new caching mechanism will be enabled. If cache-operational-parameters is set to false, no caching will be used and each reference will fetch the current value from Configuration Server (as was done prior to 8.5).	true/false	true	Immediately			
parameter-cache-timeout (new in 8.5.0)						
When cache-operational- parameters is set to true, parameter-cache-timeout defines how long (in hours) an	Integer	168	Immediately			

Description	Valid values	Default value	Takes effect	
operational "parameter group" will remain in the cache. After the timeout expires, the transaction will be removed from the cache until the next time the value is requested. This is used to clean up old subscriptions to parameter groups which are no longer being referenced. The default value for this will be 168 (168 hours = 1 week).				
clear-cache-on-disconn	ect (new in 8.5.0)			
When cache-operational-parameter is set to true, the clear-cache-on-disconnect parameter defines what the behavior should be if GRE loses connection with the Configuration Server. If clear-cache-on-disconnect is set to false, GRE will continue to use the cached value for any rule evaluations, until such time as the Configuration Server is restored. With this option, there is a risk that GRE could use "stale" values for rule evaluation during the time the connection to Configuration Server is down. If clear-cache-on-disconnect is set to true, the cache will be cleared and a null ("") value will be used in the rules. With this option, there is potential that rules will fail evaluation during the period that the Configuration Server connection is down.	true/false	false	Immediately	
include-rule-evaluation-detail-in-response (new in 8.5.001)				
Returns disqualified rules (rules that did not fire), conditions that evaluated false and rule evaluation time back to the REST client invoking the rule evaluation request. Prior to 8.5.001, only the results of rules that fired were returned. Note: Currently, the rulesDisqualified and executionTime is not returned via ESP to iWD.	true/false	false	Immediately	