



This PDF is generated from authoritative online content, and is provided for convenience only. This PDF cannot be used for legal purposes. For authoritative understanding of what is and is not supported, always use the online content. To copy code samples, always use the online content.

# Genesys Rules System Rules Authoring Tool

Release Notes 9.0.x

3/5/2025

# Table of Contents

<b>Genesys Rules System Rules Authoring Tool 9.0.x Release Note</b>	<b>3</b>
Translation Support	6
Known Issues and Recommendations	7
Release 9.0.0	9
9.0.004.02	10
9.0.003.05	12
9.0.003.04	14
9.0.003.01	16
9.0.002.01	18
9.0.001.01	20
9.0.000.34	22
9.0.000.31	24
9.0.000.30	26
9.0.000.29	28
9.0.000.26	30
9.0.000.25	32
9.0.000.23	34
9.0.000.22	36
9.0.000.21	37
9.0.000.20	38
9.0.000.19	40
9.0.000.17	42
9.0.000.13	44

# Genesys Rules System Rules Authoring Tool 9.0.x Release Note

**9.x Genesys Rules System Rules Authoring Tool** is part of 9.x starting in **9.0.000.13**.

This Release Note applies to all 9.0.x releases of Genesys Rules System Rules Authoring Tool. Links in the [Available Releases](#) section enable you to access information regarding a specific release.

## Available Releases

### [+] Note about release order

Releases are listed by version number rather than in date order. For this reason, a recent release may be listed after earlier releases, if the version number is lower. Except when otherwise noted in the information for a specific release, each release includes all of the features and corrections that were introduced for the applicable operating system at earlier dates, regardless of the version numbering.

Release 9.0.0:

Release	Release Date	Release Type	Restrictions	AIX	Linux	Solaris	Windows
9.0.005.02	03/05/25	General			X		X
9.0.004.02	10/16/24	Update			X		X
9.0.003.05	07/31/24	Update			X		X
9.0.003.04	07/15/24	Update			X		X
9.0.003.01	06/19/24	General			X		X
9.0.002.01	03/15/24	Update			X		X
9.0.001.01	02/20/24	General			X		X
9.0.000.34	11/17/23	General			X		X
9.0.000.31	11/30/22	Hot Fix			X		X
9.0.000.30	01/14/22	Hot Fix			X		X
9.0.000.29	12/17/21	Hot Fix			X		X
9.0.000.26	07/23/21	Hot Fix			X		X
9.0.000.25	04/26/21	Hot Fix			X		X
9.0.000.23	11/30/20	Hot Fix			X		X
9.0.000.22	09/09/20	Hot Fix			X		X
9.0.000.21	08/26/20	Hot Fix			X		X
9.0.000.20	07/13/20	Hot Fix			X		X

---

Release	Release Date	Release Type	Restrictions	AIX	Linux	Solaris	Windows
9.0.000.19	01/07/20	Hot Fix			X		X
9.0.000.17	11/22/19	Hot Fix			X		X
9.0.000.13	08/30/19	General			X		X

The operating systems available for use with each component release are listed in the table at a high level only. For more detailed information about the supported operating environments, including requirements, supported versions, and any conditions or limitations, see the [Genesys Rules System](#) page in the *Genesys Supported Operating Environment Reference Guide*. For information about 8.5.x releases of Genesys Rules System Rules Authoring Tool, see the [8.5 Release Note \(Cumulative\)](#).

## Discontinued Support

### [+] Note about discontinued items

This section documents features that are no longer supported in this software. This cumulative list is in release-number order with the most recently discontinued features at the top of the list. For more information on discontinued support for operating environments and databases, see [Discontinued Support](#) in the *Genesys Supported Operating Environment Reference Guide*.

- 
- Red Hat Enterprise Linux operating system version 6.  
**Discontinued as of:** 9.0.000.23

- 
- All versions of IBM DB2 database.  
**Discontinued as of:** 9.0.000.23

- 
- CentOS 6 operating system.  
**Discontinued as of:** 9.0.000.23

- 
- All versions of Solaris operating system.  
**Discontinued as of:** 9.0.000.13

- 
- Microsoft Windows Server 2008, MSSQL Server 2008 and Hyper-V Server 2008 operating systems.  
**Discontinued as of:** 9.0.000.13

- 
- All versions of IBM AIX operating system.  
**Discontinued as of:** 9.0.000.13

- 
- Microsoft Windows 7 operating system.  
**Discontinued as of:** 9.0.000.13
-

- Oracle database version 11.x and all prior versions.  
**Discontinued as of:** 9.0.000.13
- 

- Microsoft Internet Explorer browser versions 9 and 10.  
**Discontinued as of:** 9.0.000.13
- 

## Known Issues

You can find a cumulative list of the Known Issues and Recommendations for all 9.0.x releases of Genesys Rules System Rules Authoring Tool, including the issues that are specific to Localized (International) releases, at the following links:

- [Known Issues and Recommendations](#)
- [Internationalization Issues](#)

## Related Resources

For additional information about Genesys Rules System Rules Authoring Tool, see the following documentation:

- The documentation related to this software is available from the [GRS](#) page.
- The [Genesys Rules System Deployment Guide](#) provides details about installing and configuring Genesys Rules System Rules Authoring Tool.
- The [Genesys Rules System](#) page in the [Genesys Supported Operating Environment Reference Guide](#) provides detailed information about the supported operating environments, including requirements, supported versions, and any conditions or limitations for Genesys Rules System Rules Authoring Tool components.

Release Notes for other Genesys components are available [here](#).

---

# Translation Support

## Genesys Rules System Rules Authoring Tool

This page summarizes translation support for 9.0.x releases of Genesys Rules System Rules Authoring Tool for which translation to one or more languages is provided using Language Packs. Release numbers indicate generally available releases, unless **HF** is noted for a Hot Fix release. For a complete list of 9.0.x releases, see [Available Releases](#).

Product translation is limited to contents of this product at the time of translation. Display data coming from other products might appear in English. Display data related to recently introduced functionality in this product might also appear in English.

An asterisk (\*) next to a release number of a Language Pack indicates that special considerations for this release are described in the [Internationalization Issues](#) section in [Known Issues and Recommendations](#).

### Release 9.0.x Translation Support

The following table indicates translation support for particular 9.0.x releases of Genesys Rules System Rules Authoring Tool.

Language	English (US) Release
<b>9.0.000.17+</b>	
<b>Chinese (Simplified)</b>	9.0.000.03
<b>French (Canada)</b>	9.0.000.02
<b>French (France)</b>	9.0.000.02
<b>German (Germany)</b>	9.0.000.05
<b>Portuguese (Brazilian)</b>	9.0.000.06
<b>Spanish (Latin America/Mexico)</b>	9.0.000.04

# Known Issues and Recommendations

## Genesys Rules System Rules Authoring Tool

The Known Issues and Recommendations section is a cumulative list for all 9.0.x releases of Genesys Rules System Rules Authoring Tool. This section provides the latest information on known issues and recommendations associated with this product. It includes information on when individual items were found and, if applicable, corrected. The Resolved Issues section for each release describes the corrections and may list additional issues that were corrected without first being documented as Known Issues.

See also [Internationalization Issues](#).

---

Genesys Rules Authoring Tool (GRAT) doesn't support importing level-2 structure for roles with Genesys Administrator Extension (GAX) version 9.0.100.x.

**Workaround:** Use GA or GAX versions prior to 9.0.100.x for importing GRAT roles for users who use GAX 9.0.100.x.

ID: <b>GRS-3861</b>	Found In: <b>9.0.000.30</b>	Fixed In: <b>9.0.001.01</b>
---------------------	-----------------------------	-----------------------------

The **Status** drop-down list in the **Deployment History** tab displays incorrectly.

ID: <b>GRS-3684</b>	Found In: <b>9.0.000.25</b>	Fixed In: <b>9.0.000.26</b>
---------------------	-----------------------------	-----------------------------

To avoid problems with date and time display, set the following option when using versions of Java newer than version 1.8:

**JVM option -Djava.locale.providers=COMPAT**

ID: <b>GRS-3688, GRS-3683</b>	Found In: <b>9.0.000.25</b>	Fixed In:
-------------------------------	-----------------------------	-----------

Some functionality related to complex event processing and parameter mapping is not implemented in the initial 9.0 release. The result of this is that there is no provision for creating or editing templates that support rule testing scenarios and split testing. However, you can still import such templates that have been created in 8.1 GRDT and base rules and packages on them, but you can't edit or create the templates in the initial 9.0 release.

ID:	Found In: <b>9.0.000.13</b>	Fixed In: <b>9.0.000.17</b>
-----	-----------------------------	-----------------------------

## Internationalization Issues

Information in this section is included for international customers. Release numbers in the **Found In** and **Fixed In** fields refer to the English (US) release of Genesys Rules System Rules Authoring Tool unless otherwise noted in the issue description.

---

Localization is available only from the 9.0.000.17 release of Genesys Rules Authoring Tool (see the [Translation Support](#) table). Some Help content related to test scenarios and split testing (not implemented in the initial 9.0 release) has not been localized.

---



# Release 9.0.0

## Genesys Rules System Rules Authoring Tool Release Notes

You can find links to Release Notes for particular 9.0.0 releases of Genesys Rules System Rules Authoring Tool, if available, in the tree menu on the left or in the list of [Available Releases](#).

9.0.004.02

## Genesys Rules System Rules Authoring Tool Release Notes

**9.x Genesys Rules System Rules Authoring Tool** is part of 9.x starting in **9.0.000.13**.

Release Date	Release Type	Restrictions	AIX	Linux	Mac	Solaris	Windows
10/16/24	Update			X			X

### What's New

This release contains the following new features and enhancements:

- Cross-Site Scripting (XSS) vulnerabilities in all relevant input fields and import resources (Rule packages, templates and others) have been addressed by sanitizing the input characters. (GRS-4330, GRS-4335, GRS-4334, GRS-4393)

### Helpful Links

#### Releases Info

- [List of 9.0.x Releases](#)
- [9.0.x Known Issues](#)

#### Product Documentation

- [Genesys Rules System Rules Authoring Tool](#)

#### Genesys Products

- [List of Release Notes](#)

### Resolved Issues

This release contains the following resolved issues:

---

HTML space entity is now removed from free text fields. (GRS-4348)

---

Validation for optional columns has been disabled. (GRS-4347)

---

iWD GRAT login fails from GRAT version 9.0.001.01 to GRAT 9.0.003.05 due to the introduction of encrypted login requests starting from GRAT 9.0.001.01. To temporarily maintain compatibility with existing non-encrypted login requests, support for these was re-enabled in 9.0.004.02. (GRS-4341)

---

## Upgrade Notes

No special procedure is required to upgrade to release 9.0.004.02.

9.0.003.05

# Genesys Rules System Rules Authoring Tool Release Notes

**9.x Genesys Rules System Rules Authoring Tool** is part of 9.x starting in **9.0.000.13**.

Release Date	Release Type	Restrictions	AIX	Linux	Mac	Solaris	Windows
08/01/24	Update			X			X

## What's New

This release includes only resolved issues.

## Resolved Issues

This release contains the following resolved issues:

---

The deletion of a rule package in GRAT is now possible, even if it contains an invalid package name. Previously, it was not possible to delete a rule package with an invalid package name. (GRS-4270)

---

## Helpful Links

### Releases Info

- [List of 9.0.x Releases](#)
- [9.0.x Known Issues](#)

### Product Documentation

- [Genesys Rules System Rules Authoring Tool](#)

### Genesys Products

- [List of Release Notes](#)

## Upgrade Notes

No special procedure is required to upgrade to release 9.0.003.05.

# 9.0.003.04

## Genesys Rules System Rules Authoring Tool Release Notes

**9.x Genesys Rules System Rules Authoring Tool** is part of 9.x starting in **9.0.000.13**.

Release Date	Release Type	Restrictions	AIX	Linux	Mac	Solaris	Windows
07/15/24	Update			X			X

### What's New

This release includes only resolved issues.

### Resolved Issues

This release contains the following resolved issues:

---

Cross-Site Scripting (XSS) vulnerabilities in all relevant input fields have been addressed by sanitizing the input characters. (GRS-4300)

---

### Helpful Links

#### Releases Info

- [List of 9.0.x Releases](#)
- [9.0.x Known Issues](#)

#### Product Documentation

- [Genesys Rules System Rules Authoring Tool](#)

#### Genesys Products

- [List of Release Notes](#)

## Upgrade Notes

No special procedure is required to upgrade to release 9.0.003.04.

## 9.0.003.01

## Genesys Rules System Rules Authoring Tool Release Notes

**9.x Genesys Rules System Rules Authoring Tool** is part of 9.x starting in **9.0.000.13**.

Release Date	Release Type	Restrictions	AIX	Linux	Mac	Solaris	Windows
06/19/24	General			X			X

## What's New

This release contains the following new features and enhancements:

- Due to the security vulnerability (CVE-2022-3509, CVE-2021-22569, CVE-2021-22570, CVE-2022-3510, and CVE-2022-3171) and lack of usage, **Protobuf-java v2.4.1** library has been removed. (GRS-4287)
- Due to the security vulnerability (CVE-2019-12415 and CVE-2022-26336) and lack of usage, **Apache Poi v3.17** library has been removed. (GRS-4284)
- Due to the security vulnerability (BDSA-2022-1920, CVE-2021-31811, and CVE-2021-31812) and lack of usage, **PDFbox lib v2.0.23** has been removed. (GRS-4283)
- Due to the security vulnerability (CVE-2023-5072, CVE-2022-45688), the **JSON** library is updated from v20090211 to v20230303. (GRS-4286)
- Due to the security vulnerability (CVE-2024-25710, CVE-2021-35515, CVE-2021-35516, CVE-2021-36090, and CVE-2021-35517), the **Apache common-compresser** library is updated from v1.20 to v1.26.1. (GRS-4285)
- Due to the security vulnerability (CVE-2023-24998), the **Apache commons-fileupload** library is updated from v1.3.3 to v1.5. (GRS-4281)
- Due to the security vulnerability (CVE-2022-30973, CVE-2022-33879, CVE-2022-30126,

## Helpful Links

## Releases Info

- [List of 9.0.x Releases](#)
- [9.0.x Known Issues](#)

## Product Documentation

- [Genesys Rules System Rules Authoring Tool](#)

## Genesys Products

- [List of Release Notes](#)



---

CVE-2022-25169, CVE-2018-11762, CVE-2019-10094, CVE-2020-1951, CVE-2019-10088, CVE-2020-1950, CVE-2020-9489, CVE-2018-11761, CVE-2018-11796, CVE-2018-8017, CVE-2018-17197, and CVE-2021-28657), the **Apache tika** library is updated from v1.18 to v1.28.5. (GRS-4280)

- Due to the security vulnerability (CVE-2022-46337), the **Derby** library is updated from v10.14.2.0 to v10.17.1.0. (GRS-4278)
- Due to the security vulnerability (BDSA-2016-1748 (CVE-2023-2976), BDSA-2020-3736 (CVE-2020-8908), and BDSA-2018-1358 (CVE-2018-10237)), the **Google-Guava** library is updated from v17.0 to v33.1.0-jre. (GRS-4246)
- Due to the security vulnerability (BDSA-2024-0720 (CVE-2024-29025)), the **Netty** library is updated from 4.1.101 to 4.1.109. (GRS-4245)

## Resolved Issues

This release contains the following resolved issues:

---

In the GRAT application, XML files with the **entity** tags are restricted in all the XML import function. (GRS-4125)

---

An issue where date was not displayed on the **Rules** tab in the French language pack is now fixed. (GRS-4073)

---

## Upgrade Notes

No special procedure is required to upgrade to release 9.0.003.01.

# 9.0.002.01

## Genesys Rules System Rules Authoring Tool Release Notes

**9.x Genesys Rules System Rules Authoring Tool** is part of 9.x starting in **9.0.000.13**.

Release Date	Release Type	Restrictions	AIX	Linux	Mac	Solaris	Windows
03/15/24	Update			X			X

### What's New

This release contains the following new features and enhancements:

- Upgraded the following libraries to fix CVE-2022-40156, CVE-2022-40155, CVE-2022-40154, CVE-2022-40153, CVE-2022-40151, CVE-2021-39154 vulnerabilities:
  - Xstream library to v1.4.20
  - Jettison library to v1.5.4

### Helpful Links

#### Releases Info

- [List of 9.0.x Releases](#)
- [9.0.x Known Issues](#)

#### Product Documentation

- [Genesys Rules System Rules Authoring Tool](#)

#### Genesys Products

- [List of Release Notes](#)

### Resolved Issues

This release contains no resolved issues.

## Upgrade Notes

No special procedure is required to upgrade to release 9.0.002.01.

9.0.001.01

## Genesys Rules System Rules Authoring Tool Release Notes

**9.x Genesys Rules System Rules Authoring Tool** is part of 9.x starting in **9.0.000.13**.

Release Date	Release Type	Restrictions	AIX	Linux	Mac	Solaris	Windows
02/20/24	General			X			X

### What's New

This release contains the following new features and enhancements:

- To improve security, Netty library has been upgraded from v4.1.64 to v4.1.101 (CVE-2023-34462, CVE-2023-44487, CVE-2021-37137). (GRS-4071)
- To improve security, Apache jackrabbit library has been upgraded from v2.16.6 to v2.21.18. (GRS-4023)

### Resolved Issues

This release contains the following resolved issues:

An issue where the date was not displayed on the **Rules** tab when the language is French is now fixed. (GRS-4073)

### Helpful Links

#### Releases Info

- [List of 9.0.x Releases](#)
- [9.0.x Known Issues](#)

#### Product Documentation

- [Genesys Rules System Rules Authoring Tool](#)

#### Genesys Products

- [List of Release Notes](#)

---

Email address within angle brackets is now enabled to be displayed in the **Rules** tab. However, due to the limitations in dynamic HTML framework, if there is a change in the format other than Description <Email address>, the email address will not be displayed properly. (GRS-4021)

---

Login details are now encrypted in browser cookies and session storage. (GRS-4001)

---

GRAT supports Level 2 structure roles which are introduced in **GAX 9.0.100.\*** release with backward compatibility towards Level 3 structure roles. (GRS-3901)

---

The configuration option log4j2-config-profile is removed from GRAT templates. (GRS-3815)

---

The '+' operator is now skipped for encoding/decoding when passed as a value to Rule conditions/actions. (GRS-3801)

---

## Upgrade Notes

No special procedure is required to upgrade to release 9.0.001.01.

9.0.000.34

## Genesys Rules System Rules Authoring Tool Release Notes

**9.x Genesys Rules System Rules Authoring Tool** is part of 9.x starting in **9.0.000.13**.

Release Date	Release Type	Restrictions	AIX	Linux	Mac	Solaris	Windows
11/17/23	General			X			X

### What's New

This release includes only resolved issues.

### Resolved Issues

This release contains the following resolved issues:

To improve security, the following third-party libraries have been upgraded:

- Upgraded Apache Xalam library from v2.7.2 to v2.7.3. (GRS-4000)
- Upgraded Jsoup library from v1.11.3 to v1.16.1. (GRS-3992)
- Upgraded Jackson-databind library from v2.12.3 to v2.12.7.1. (GRS-3991)
- Upgraded SnakeYAML library from v1.4 to v2.0. (GRS-3990)
- Upgraded SLF4J library from v1.6.4 to v1.7.36. (GRS-3989)
- Upgraded Dom4j library from v1.6.1 to v2.1.4. (GRS-3988)

### Helpful Links

#### Releases Info

- [List of 9.0.x Releases](#)
- [9.0.x Known Issues](#)

#### Product Documentation

- [Genesys Rules System Rules Authoring Tool](#)

#### Genesys Products

- [List of Release Notes](#)

- Removed weld 2.2.8 library. (GRS-3998)
  - Removed Junit library. (GRS-3993)
- 

## Upgrade Notes

No special procedure is required to upgrade to release 9.0.000.34.

# 9.0.000.31

## Genesys Rules System Rules Authoring Tool Release Notes

**9.x Genesys Rules System Rules Authoring Tool** is part of 9.x starting in **9.0.000.13**.

Release Date	Release Type	Restrictions	AIX	Linux	Mac	Solaris	Windows
11/30/22	Hot Fix			X			X

### What's New

This release contains the following new features and enhancements:

- As of 05/10/23, Genesys Rules System Rules Authoring Tool database connection is SSL enabled for the following:
  - MS SQL Server 2022
  - Oracle 19c RAC
  - PostgreSQL 12

### Helpful Links

#### Releases Info

- [List of 9.0.x Releases](#)
- [9.0.x Known Issues](#)

#### Product Documentation

- [Genesys Rules System Rules Authoring Tool](#)

#### Genesys Products

- [List of Release Notes](#)

### Resolved Issues

This release contains the following resolved issues:

Minor corruption or inconsistency in repository that caused the Genesys Rules Authoring Tool's (GRAT)



initialization failure is fixed now. Users are no longer required to manually add the line `<param name="onWorkspaceInconsistency" value="log"/>` in the **repository.xml** file. In addition, the default value of the **auto-fix-corruptions** options is now set as true. This will enable auto-cleanup of repository tables that are out-of-sync or corrupted. (GRS-3857)

---

The **Start Date** column displayed on the **Rules** tab for a **Rules Package** now correctly displays the date in the locale date format, that is, dd.mm.y. (GRS-3805)

---

The new parameter of type **Database** added to the **Query Type** - Single Value and List is now correctly displayed in the **Givens** and **Expectations** drop-down. (GRS-3829)

---

## Upgrade Notes

No special procedure is required to upgrade to release 9.0.000.31.

9.0.000.30

## Genesys Rules System Rules Authoring Tool Release Notes

**9.x Genesys Rules System Rules Authoring Tool** is part of 9.x starting in **9.0.000.13**.

Release Date	Release Type	Restrictions	AIX	Linux	Mac	Solaris	Windows
01/14/22	Hot Fix			X			X

### What's New

This release includes the following new features or enhancements:

- This release includes important security fixes related to the Apache Log4j 2 vulnerability (CVE-2021-45105). In particular, the Log4j library included with Genesys Rules System Rules Authoring Tool has been upgraded to 2.17.1. (GRS-3755)

### Resolved Issues

This release contains no resolved issues.

### Helpful Links

#### Releases Info

- [List of 9.0.x Releases](#)
- [9.0.x Known Issues](#)

#### Product Documentation

- [Genesys Rules System](#)

#### Genesys Products

- [List of Release Notes](#)

## Upgrade Notes

No special procedure is required to upgrade to release 9.0.000.30.

9.0.000.29

## Genesys Rules System Rules Authoring Tool Release Notes

**9.x Genesys Rules System Rules Authoring Tool** is part of 9.x starting in **9.0.000.13**.

Release Date	Release Type	Restrictions	AIX	Linux	Solaris	Windows
12/17/21	Hot Fix			X		X

### What's New

This release includes the following new features or enhancements:

- Important security fixes related to the log4j vulnerability (CVE-2021-44228). (GRS-3750)
- Updates to other internal libraries to improve security and performance. (GRS-3725)

### Resolved Issues

This release contains the following resolved issues:

---

A problem with deploying rules that resulted in generation of an undefined LMS message has been corrected. (GRS-3731)

---

September deployment dates now display correctly in Package Deployment histories where GRAT is localized into French. Previously, such dates displayed as blank. (GRS-3732)

---

### Helpful Links

#### Releases Info

- [List of 9.0.x Releases](#)
- [9.0.x Known Issues](#)

#### Product Documentation

- [Genesys Rules System](#)

#### Genesys Products

- [List of Release Notes](#)

## Upgrade Notes

No special procedure is required to upgrade to release 9.0.000.29.

# 9.0.000.26

## Genesys Rules System Rules Authoring Tool Release Notes

**9.x Genesys Rules System Rules Authoring Tool** is part of 9.x starting in **9.0.000.13**.

Release Date	Release Type	Restrictions	AIX	Linux	Solaris	Windows
07/23/21	Hot Fix			X		X

### What's New

This release includes the following new features or enhancements:

- To prevent possible security vulnerabilities, support for WFM 7-based activities parameters is discontinued. (GRS-3702)

### Resolved Issues

This release contains the following resolved issues:

Some decision tables, after being exported to **.xls** format, and then edited/saved in Excel, could not be reimported. This was due to a misinterpretation of a non-breaking space that Excel was injecting after each column name. This issue is now fixed. (GRS-3710)

Some string parameter values were inadvertently being interpreted as dates due to an error in GRAT code. This issue is fixed. (GRS-3707)

A potential security vulnerability with respect to the Business Structure has been resolved. (GRS-3703)

### Helpful Links

#### Releases Info

- [List of 9.0.x Releases](#)
- [9.0.x Known Issues](#)

#### Product Documentation

- [Genesys Rules System](#)

#### Genesys Products

- [List of Release Notes](#)

---

Repository initialization time has been greatly reduced by eliminating the unnecessary indexing of the system portion of the repository database. (GRS-3685)

---

The **httpClient** library has been updated to a newer version to improve security. The existing library contained recently reported vulnerabilities. (GRS-3699)

---

GRAT has been modified to properly restrict the XML parser during import operations, in order to protect against a possible security vulnerability. (GRS-3696)

---

A possible XSS vulnerability pertaining to parameters retrieved from an external database has been resolved. (GRS-3694)

---

Previously, users who opened multiple GRAT tabs could sometimes see erroneous messages related to expired sessions. This issue has been resolved. (GRS-3686)

---

Internal libraries related to REST have been upgraded in this release in order to prevent reported security vulnerabilities in the older libraries. (GRS-3283)

---

GRAT upgraded the logging libraries to log4j2 due to known vulnerabilities in log4j1.2 versions. You will need to make some logging-related configuration changes before deploying this version. See the GRE *No results* option for details. (GRS-3271)

---

## Upgrade Notes

See [GRS-3271](#).

9.0.000.25

## Genesys Rules System Rules Authoring Tool Release Notes

**9.x Genesys Rules System Rules Authoring Tool** is part of 9.x starting in **9.0.000.13**.

Release Date	Release Type	Restrictions	AIX	Linux	Solaris	Windows
04/26/21	Hot Fix			X		X

### What's New

This release includes the following new features or enhancements:

- Support for:
  - Open JDK 13. See also Known Issue [GRS-3688](#).
  - Tomcat 9.0.41. (GRS-3465)
 

See the Prerequisites section on the [Genesys Rules System](#) page in the [Genesys Supported Operating Environment Reference Guide](#) for more detailed information and a list of all prerequisites.
- Grid layouts and row heights have been changed to improve usability of the GRAT user interface. (GRS-3623)

### Helpful Links

#### Releases Info

- [List of 9.0.x Releases](#)
- [9.0.x Known Issues](#)

#### Product Documentation

- [Genesys Rules System](#)

#### Genesys Products

- [List of Release Notes](#)

### Resolved Issues

This release contains the following resolved issues:

---

Previously, repository inconsistencies might occur where a rule package had been deleted but there was an attempt to add another package with the same name. This would generate an exception and a message indicating that a child node with this name already existed.

---



---

A new configuration option—auto-fix-corruptions—has been added to allow enabling/disabling of the automatic cleanup of these inconsistencies. (GRS-3672)

---

A change made via the UI to a Business Calendar rule (such as a holiday or time change) from having a fixed date placement to an annual placement now correctly initializes the default date of Jan 1. (GRS-3667)

---

After importation of a rule from an .xls file, Conditions without parameters now display correctly when a new row is added to the rule. (GRS-3639)

---

## Upgrade Notes

No special procedure is required to upgrade to release 9.0.000.25.

9.0.000.23

## Genesys Rules System Rules Authoring Tool Release Notes

**9.x Genesys Rules System Rules Authoring Tool** is part of 9.x starting in **9.0.000.13**.

Release Date	Release Type	Restrictions	AIX	Linux	Solaris	Windows
11/30/20	Hot Fix			X		X

### What's New

This release includes the following new features or enhancements:

- Support for the following operating environments:
  - Windows Server 2019
  - MS SQL Server 2019  
See the [Genesys Rules System](#) page in the [Genesys Supported Operating Environment Reference Guide](#) for more detailed information.  
(GRS-3625)
- No longer supported:
  - Red Hat Enterprise Linux 6
  - CentOS Linux 6
  - All IBM DB2 databases

### Resolved Issues

This release contains no resolved issues.

### Helpful Links

#### Releases Info

- [List of 9.0.x Releases](#)
- [9.0.x Known Issues](#)

#### Product Documentation

- [Genesys Rules System](#)

#### Genesys Products

- [List of Release Notes](#)

## Upgrade Notes

No special procedure is required to upgrade to release 9.0.000.23.

9.0.000.22

## Genesys Rules System Rules Authoring Tool Release Notes

**9.x Genesys Rules System Rules Authoring Tool** is part of 9.x starting in **9.0.000.13**.

Release Date	Release Type	Restrictions	AIX	Linux	Solaris	Windows
09/09/20	Hot Fix			X		X

### What's New

This release includes only resolved issues.

### Resolved Issues

This release contains the following resolved issues:

---

A new GRAT configuration option—enable-pending-rule-count—allows the user to disable the calculation of the number of rules that have a pending snapshot. This number is displayed for each rule package in parentheses in the **Deploy Rules** node (for example, Deploy RuLes (2)). (GRS-3621)

---

### Helpful Links

#### Releases Info

- [List of 9.0.x Releases](#)
- [9.0.x Known Issues](#)

#### Product Documentation

- [Genesys Rules System](#)

#### Genesys Products

- [List of Release Notes](#)

### Upgrade Notes

No special procedure is required to upgrade to release 9.0.000.22.

# 9.0.000.21

## Genesys Rules System Rules Authoring Tool Release Notes

**9.x Genesys Rules System Rules Authoring Tool** is part of 9.x starting in **9.0.000.13**.

Release Date	Release Type	Restrictions	AIX	Linux	Solaris	Windows
08/26/20	Hot Fix			X		X

### What's New

This release includes only resolved issues.

### Resolved Issues

This release contains the following resolved issues:

---

This release ships with upgraded libraries to improve security and reliability. (GRS-3613)

---

### Upgrade Notes

No special procedure is required to upgrade to release 9.0.000.21.

### Helpful Links

#### Releases Info

- [List of 9.0.x Releases](#)
- [9.0.x Known Issues](#)

#### Product Documentation

- [Genesys Rules Authoring Tool](#)

#### Genesys Products

- [List of Release Notes](#)

9.0.000.20

## Genesys Rules System Rules Authoring Tool Release Notes

**9.x Genesys Rules System Rules Authoring Tool** is part of 9.x starting in **9.0.000.13**.

Release Date	Release Type	Restrictions	AIX	Linux	Solaris	Windows
07/13/20	Hot Fix			X		X

### What's New

This release includes the following new features and enhancements:

- Support for the following databases is added in this release:
  - Oracle 19C and RAC (GRS-3602)

See the Prerequisites section on the [Genesys Rules System](#) page in the [Genesys Supported Operating Environment Reference Guide](#) for more detailed information and a list of all prerequisites.

### Helpful Links

#### Releases Info

- [List of 9.0.x Releases](#)
- [9.0.x Known Issues](#)

#### Product Documentation

- [Genesys Rules System](#)

#### Genesys Products

- [List of Release Notes](#)

### Resolved Issues

This release contains the following resolved issues:

---

In a single-tenant environment, the tenant is now automatically selected upon login. Previously, you had to manually select it. (GRS-3608)

---

Support for Virtual Queues has been added to GRS Template Development. (GRS-3607)

---

A problem that caused the creation of a Template Project to fail in GRAT 9.0 after migration from

---

8.5.2x has been fixed. (GRS-3600)

---

## Upgrade Notes

No special procedure is required to upgrade to release 9.0.000.20.

9.0.000.19

## Genesys Rules System Rules Authoring Tool Release Notes

**9.x Genesys Rules System Rules Authoring Tool** is part of 9.x starting in **9.0.000.13**.

Release Date	Release Type	Restrictions	AIX	Linux	Solaris	Windows
01/07/20	Hot Fix			X		X

### What's New

This release contains the following new features and enhancements:

- Summary panel dividers can now be smoothly dragged to the required size. Previously, multiple smaller drags might be required. (GRS-3367)

### Resolved Issues

This release contains the following resolved issues:

---

A performance issue in loading template projects has been fixed in this release. (GRS-3546)

---

The scrollbar in the Business Calendar detail grid now displays correctly whenever the browser is resized. (GRS-3543)

---

The **Copy** action is now disabled for rules, test scenarios and calendars unless the corresponding **Modify** permission is granted. Previously the **Copy** action just failed with an empty error message. (GRS-3533)

### Helpful Links

#### Releases Info

- [List of 9.0.x Releases](#)
- [9.0.x Known Issues](#)

#### Product Documentation

- [Genesys Rules Authoring Tool](#)

#### Genesys Products

- [List of Release Notes](#)



---

You must now either complete all required fields in a test scenario or cancel before navigating away to Template Development. Previously, it was possible to navigate away but the message prompt remained stuck until the screen was refreshed. (GRS-3530)

---

Panel titles are now set in the correct font throughout GRAT. (GRS-3466)

---

## Upgrade Notes

No special procedure is required to upgrade to release 9.0.000.19.

9.0.000.17

## Genesys Rules System Rules Authoring Tool Release Notes

**9.x Genesys Rules System Rules Authoring Tool** is part of 9.x starting in **9.0.000.13**.

Release Date	Release Type	Restrictions	AIX	Linux	Solaris	Windows
11/22/19	Hot Fix			X		X

### What's New

This release contains the following new features and enhancements:

- **Test Scenario Support**—Parameters can now be associated with **Fact** fields to enable test scenario support in GRAT. Previously, these associations could only be set using the legacy Eclipse-based GRDT. In this release, they can now be made in the Template Development section of GRAT. (GRS-3491)

### Helpful Links

#### Releases Info

- [List of 9.0.x Releases](#)
- [9.0.x Known Issues](#)

#### Product Documentation

- [Genesys Rules System](#)

#### Genesys Products

- [List of Release Notes](#)

### Resolved Issues

This release contains the following resolved issues:

---

For Decision Tables and Test Scenarios, GRAT now maintains the horizontal and vertical scroll positions correctly after a value is updated in a Condition or Action. (GRS-3497)

---

**Clear** and **Today** buttons have been added to the Decision Table popup calendar to, respectively, either clear the calendar entry or set the date to the current day. This resolves a previous problem with resetting a previously set date to an empty value. (GRS-3495)

---

---

Rule validation has been modified to check the type of rule selected rather than inheriting the type of the previously validated rule. (GRS-3488)

---

Changes to rule package business names that involve removal of the final character or word of the business name are now saved correctly. Previously, this action generated a Business name already exists error, and was not saved. (GRS-3483)

---

Sorting of templates by Date Modified now works as expected. Previously, sort order was incorrect. (GRS-3481)

---

Jackson library updates have been implemented to improve security. (GRS-3443)

---

## Upgrade Notes

No special procedure is required to upgrade to release 9.0.000.17.

9.0.000.13

## Genesys Rules System Rules Authoring Tool Release Notes

**9.x** This is the first 9.x release of **Genesys Rules System Rules Authoring Tool**.

Release Date	Release Type	Restrictions	AIX	Linux	Solaris	Windows
08/30/19	General			X		X

### What's New

This release contains the following new features and enhancements:

- The Genesys Rules Development Tool (GRDT—latest release 8.1.4) has been merged with the Genesys Rules Authoring Tool (GRAT) to provide one platform for development of templates through to authoring of business rules and their publication to the Genesys Rules Engine or other specified engine. Please refer to the [Genesys Rules Authoring Tool Help](#) for more details. (GRS-3349)
- The user interface of the new GRAT has been upgraded to the current Genesys branding and style guidelines. (GRS-3348)
- Undo/re-do buttons have been added to the user interface to assist in editing rules, calendars and test scenarios. (GRS-3350)
- A "Disable Package Serialization" checkbox has been added to the **General** tab of rules packages in GRAT to enable package serialization to be disabled at the rule package level. See [enable-package-serialization](#). (GRS-3357)
- GRAT has been upgraded to support latest browser releases for improved security and support. (GRS-3352)
- Role-Based Access Control (RBAC) has been extended to the Template Development features added to the new GRAT. (GRS-2947)
- Support for the following operating environments:
  - OpenJDK 1.8. (GRS-3351)

### Helpful Links

#### Releases Info

- [List of 9.0.x Releases](#)
- [9.0.x Known Issues](#)

#### Product Documentation

- [Genesys Rules System](#)

#### Genesys Products

- [List of Release Notes](#)

- Oracle 12c Release 2/Oracle 18c database. (GRS-3384)  
See the [GRS](#) page in the *Genesys Supported Operating Environment Reference Guide* for more detailed information.
- Support for all versions of Solaris operating system is discontinued. (GRS-3077)

## Resolved Issues

This release contains no resolved issues.

## Upgrade Notes

No special procedure is required to upgrade to release 9.0.000.13.