PRODUCT RELEASE

◊ Gensym

Gensym G2™ Standard & Enterprise Edition
Gensym G2 2024.2

December 2025

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1. Overview

This current **G2 2024.2** update is the next release of the new major edition(s) of the G2 platform – i.e. G2 2024. G2 2024 comes in two editions: Standard (STD32 & STD64) and Enterprise (ENT).

Product defects are generally fixed in both editions of G2. Feature or Function enhancements (if any) that are reserved for Enterprise will be duly highlighted in the release notes. A brief summary of Enterprise and STD edition is attached below. For additional details please contact your account manager or contact Ignite Support

Gensym G2 2024 Platform is available in both Standard and Enterprise Editions. The following table provides the differences between these editions.

Feature	Standard Edition	Enterprise Edition
Real Time Reasoning Engine	✔	✔
Natural Language Rule Definition	✔	✔
Graphical Design of Business Processed	✔	✔
Mission-Critical Reliability	✔	✔
Object Modeling	✔	✔
Rapid Prototyping	✔	✔
Unified Modeling & Simulation	✔	✔
Task Priority Scheduling	✔	✔
Support for 64-bit environments	✔	✔
Unlimited Process Authorizations (g2)[*]		✔
Support for MQTT Protocol as a client leveraging the MQTT Framework		✔
Support for Linux on ARM64 architecture		✔
Support for Realtime Operating System VxWorks on PowerPC architecture[**]		✔

Customers can continue to provide their valuable feedback to our support through our support portal at https://support.ignitetech.com.

[*] Subject to your existing licensing terms and conditions
[**] SP0 – S board (from Aitech) with 32-bit PowerQUICC®III MPC8548E – e500 architecture

❖ **Latest Release Version**   Gensym.2024.2

❖ **As of Release Date**   December 11th, 2025

❖ **Release Type**   Public Release

❖ **Deliverables**   Product Release Software (SHA1 checksums as below)
```
dbc2d4cfdc5fa7de4590e084739f4c96fcc2f31c Win 64-bit
c96d681fa2353dac7df8a69098a4d14687dbcf2d Lin 64-bit
f15a5fae024bec74b0710204733275b72f160b16 Lin ARM 64
f3b705ec803595b0451529370d7f000127ef05a8 Win 32-bit
feac5ed822f2b0453780a5ca9d86d6516a503d02 Lin 32-bit
```

Release Notes Documentation

❖ **Other Information**   None

2. Changes in Release

- 2 enhancements since 2024.1
- 5 customer-identified or internally identified issues since 2024.1
- Windows 11 support
- Improved product quality due to additional internal fixes.

3. Licensing Changes

Please note that old G2 license files (for G2 2023-2015 etc) will not work with this version. If you have an active subscription license, please contact support to obtain a new license file.

4. Release Summary

4.1. Enhancements

Key	Customer Issue ID	Summary
AGP-18	G2-099	Programmatic launch of inspect session with predefined text
AGP-19	G2-067	Identify remote g2-to-g2-connection

4.2. Issues

Key	Customer Issue ID	Summary
AGP-16	G2-060	Mouse-wheel zoom on a workspace without scrollbars
AGP-17	G2-109	Regression in rules with child-class attributes
GENSYMBSE-4	4463162	Secure encrypted connections in G2 OPC UA Bridge
GENSYMBSE-23	60101242	G2 MQTT client disconnects on messages over 244 bytes
IBUENG-1602	4217571	Abort issue on deleting a GDA block

5. Release Details

5.1. Enhancements

AGP-18: Programmatic launch of inspect session with predefined text

Issue: Allow programmatic launch of inspect session with predefined text. This will allow storing useful inspect commands and easily running them. Current options:

1. `g2-start-inspect-session`: Allows running an inspect session in the background, but doesn't provide same interactive user interface for interacting with the session or the results;
2. `g2-system-command (the symbol inspect, ...)`: Opens an inspect command dialog, but keeps it blank, so the user still needs to edit or paste desired inspect command – this option should work best to simply allow for the specification of a preconfigured inspect command as one of the arguments).

Solution: Use `g2-system-command (the symbol inspect, this window, text-param-name, the symbol command)` to invoke an inspect dialog with predefined text, where `text-param-name` is the name of a TEXT-PARAMETER instance containing the required inspect command (for example, "show on a workspace the module hierarchy"). Please note that the last argument should be `the symbol command`.

AGP-19: Identify remote g2-to-g2-connection

Issue: Currently just hostname is provided, not port number.

Solution: `g2-to-g2-data-interface-connection-origin` attribute of G2-TO-G2-DATA-INTERFACE class now contains the listening port of the remote G2 server, in the "host:port" format. For example, if the following procedure was called,

```
g2ds-connection-origin-example()
host: text;
inbound: text;
port: text;
pos: integer;
begin
    if there exists a g2-to-g2-data-interface con such that (the
g2-to-g2-data-interface-connection-origin of con has a current value) then
        begin
          for con = each g2-to-g2-data-interface do
           if the g2-to-g2-data-interface-connection-origin of con has a current value
then
              begin
              inbound = the g2-to-g2-data-interface-connection-origin of con;
              pos = position-of-text(":",inbound);
              change the name of con to symbol(replace-in-text("-",inbound,pos,pos));
              end;
          end;
      end;
end
```

then the inbound G2-TO-G2-DATA-INTERFACE instance would be named REMOTEHOST-1111.

5.2. Issues

AGP-16: Mouse-wheel zoom on a workspace without scrollbars

Issue: When using a mouse-wheel to zoom in on workspace without scrollbars, there is a tendency for scrollbars to not be added and ending with workspace with hidden areas.
Solution: Scrollbars appear automatically.

AGP-17: Regression in rules with child-class attributes

Issue: Regression, a rule referring to instances of some parent class produced an error for child-class attributes.
Solution: The rules of the following form

```
whenever the y of any parent-class P receives a value or the x of P receives a
value or the z of P receives a value then conclude that test-passed = true
```

where X and Z are attributes of CHILD-CLASS-1 and CHILD-CLASS-2 (and not present in PARENT-CLASS), work as before.

GENSYMBSE-4: Secure encrypted connections in G2 OPC UA Bridge

Issue: Secure encrypted connections between the G2 OPC UA Bridge and OPC UA server were not supported.
Solution: Secure encrypted connections between the G2 OPC UA Bridge and OPC UA server are supported. Please see

the bridge user manual for details. G2 OPC UA bridge 16.0.5 is available as a separate archive on the Release Portal.

GENSYMBSE-23: G2 MQTT client disconnects on messages over 244 bytes

Issue: Due to a miscalculation, G2 MQTT client disconnected on messages over 244 bytes.
Solution: Bug fixed, full MQTT standard compliance is ensured.

IBUENG-1602: Abort issue on deleting a GDA block

Issue: When inputs and outputs of a GDA block were "short-circuited", and the block was subsequently deleted, G2 crashed due to a memory double-free.
Solution: Memory is handled correctly.

6. G2 2024 Platform Matrix

G2 STD/ENT (2020)	Windows 7, 8.1	Windows 10	Windows 11	Windows Server 2008 / 2008R2	Windows Server 2012 R2	Windows Server 2016	Windows Server 2019	LINUX Distributions **
G2 Server (STD, 32-bit & 64-bit)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	G2 STD and ENT are LSB (Linux Standard Base) 4.0 Compliant.
G2 Server (ENT, 64-bit)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	The product is supported on several Linux distributions e.g RHEL 5.6, RHEL 6.4, RHEL 7.1, SuSE Linux Enterprise 11, Ubuntu 8.04, 9.04, 16.04 and others
G2 Classic Client (Telewindows)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
G2 Next Gen Client (Telewindows NG)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A

**For 64-bit OSs, such as RHEL 7, which only has x64 version, a user needs to install 32-bit compatibility libraries to run G2 STD 32.

Notes:
1) Gensym Enterprise and Standard 64 Editions include x64 versions of GSI, JavaLink bridge, G2 Oracle bridge for Oracle 10g, Oracle 11g and Oracle 12c, G2 ODBC bridge, G2 ActiveX bridge and G2 Sybase bridge.