

## Geode software v3.3.0

### Release Note

For Research Use Only. Not for use in diagnostic procedures.

### Impacted product

Geode H15000, a part of the naica® system

This update is only available on Geode H15000 and only supports the use of Sapphire Chip and Ruby Chip.

**WARNING:** Use of the Opal Chip is not supported by Software Geode v3.3.0.

### Purpose of the release note

The purpose of this document is to provide an overview of the implemented changes from Geode software version v3.1.0 to v3.3.0 for Geode H15000 models.

### Installation instructions

The software update must be performed by a member of Stilla Technologies' support specialist. A Stilla Technologies' support specialist will update all Geode H15000 models to the v3.3.0 software during preventive or curative maintenance unless otherwise requested by the customer – please get in touch with support for any questions regarding the update.

### New user instructions

The operating Geode input pressure should be maintained between  $1,220 \pm 20$  mbars (via the compressed air system (ISPTLAPG3) delivered with the naica® system) – please consult the naica® system user manual for more details.

### Implemented changes

The information of implemented changes is provide for:

- New feature addition
- Improvements
- Bug corrections

## New features for Geode operation in GMP-compliant environments

The Geode software v3.3.0 includes new features to support users working in GMP-compliant environments.

New feature addition	Description
User management features	<p>Upon request from the customer working in a GMP-compliant environment, Stilla Technologies can configure the Geode with user management features. These features include:</p> <ul style="list-style-type: none"><li>● Three user groups are created with a different set of permissions:<ul style="list-style-type: none"><li>○ <u>“Admins”</u>:<ul style="list-style-type: none"><li>▪ A user from the “Admins” group can:<ul style="list-style-type: none"><li>● Start, pause and stop runs</li><li>● Create and edit programs</li><li>● Add programs to the “Templates” directory</li><li>● View and export all records (Live Logs, GLP reports and System Logs)</li><li>● View and modify system administration parameters.</li><li>● Manage user accounts and user groups, including password re-initialisation for personal user accounts.</li></ul></li><li>▪ A user account “Admin” with password “admin” is created in this group.</li></ul></li><li>○ <u>“Operators”</u>:<ul style="list-style-type: none"><li>▪ A user from the “Operators” group can:<ul style="list-style-type: none"><li>● Start, pause and stop runs from an existing program</li><li>● View and export Live Logs and GLP reports</li></ul></li><li>▪ A default user account “Operator1” with password “operator1” is created in this group.</li></ul></li><li>○ <u>“Guests”</u>:<ul style="list-style-type: none"><li>▪ A user from the “Guests” group can only view the progress of an ongoing run, and cannot access any of the other functionalities of the Geode.</li><li>▪ A default user account “Guest” with password “guest” is created in this group.</li></ul></li></ul></li><li>● Personal accounts can be created for each user by any user in the “Admins” group, with a username and password. No specific rules are imposed for password creation of personal user accounts.</li><li>● The software prevents direct access to personal user account password, even to a user from the “Admins” user group.</li><li>● Mandatory user account log in upon switch on of the Geode.</li><li>● Automatic user account log out after a period of inactivity.</li></ul> <p>These features support users to prove compliance with Ref 10 and Ref 12.1 of Annex 11 of the GMP guide.</p>

<p>Record management features – detailed and non-editable GLP report</p>	<p>Like in the previous software version, after each run (without errors or with errors) the Geode software v3.3.0 generates a live log file and a GLP report and updates the system log file.</p> <p>Previously, the GLP report included limited information about each run, was saved on the Geode memory and could be exported as a .glp format (readable and editable in a text editor) and could be deleted from the Geode memory.</p> <p>Modifications and verifications of the GLP report feature were made during the Geode v3.3.0 development. In Geode software v3.3.0 the GLP report:</p> <ul style="list-style-type: none"> <li>● Includes more information to support traceability. The GLP report now includes: <ul style="list-style-type: none"> <li>○ Launched program name</li> <li>○ Launched program step details</li> <li>○ Run date and time</li> <li>○ User that started the run</li> <li>○ Error notifications (if any)</li> </ul> </li> <li>● Is generated incrementally in chronological order of runs, such that no new entry can overwrite a previous entry.</li> <li>● Is saved on the Geode memory and can be exported in .glp format (editable) and .pdf format (non-editable).</li> <li>● Cannot be deleted from the Geode memory (neither the .glp nor the .pdf file).</li> </ul>
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### User interface and user experience improvements

The Geode software v3.3.0 includes improvements to the user interface and user experience:

Feature improvement	Description
Branding update	<p>In Geode software v3.3.0, the graphical user interface has been update in Stilla Technologies latest branding graphical charter.</p> <p>Color charter user for all buttons and banners:</p> <div data-bbox="483 1268 1045 1635" style="border: 1px solid black; padding: 10px; margin: 10px 0;"> <p><b>PRIMARY:</b> #123255</p> <p><b>LIGHT:</b> #395A83</p> <p><b>DARK:</b> #00082D</p> </div> <p>Switch on loading page:</p>



Logo displayed in “About” page:



Logo used for the “About” button, in the “System” tab:




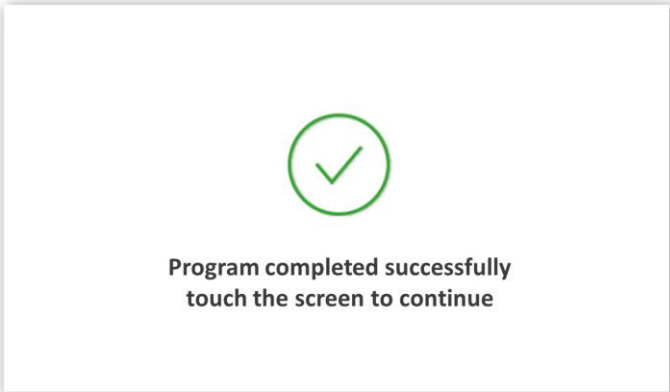
Pop-up messages clarification when run is manually stopped

When the stop button is pressed during a Sapphire or a Ruby run, the following pop-up message will appear:



Removal of option to continue run if a pressure error is detected

If a pressure error is detected, the following pop-up message will appear:

	<div style="text-align: center;">  </div> <p>There will be no option to “Cancel” to return to the run.</p>
<p>Pop-up message clarification when run is finished</p>	<p>At the end of the run, the following pop up message will appear:</p> <div style="text-align: center;">  </div>
<p>Removal of obsolete program commands</p>	<p>The following obsolete programs commands were removed:</p> <ul style="list-style-type: none"> <li>● Pause command</li> <li>● Start cycle command</li> <li>● Close cycle command</li> <li>● Store command</li> <li>● Pressurisation command</li> </ul>
<p>Change in minimal programmable temperature</p>	<p>To support the use of the Geode within the instrument specifications, in Geode software v3.3.0 the minimal programmable temperature has been set to 10°C.</p>
<p>Change in maximal programmable ramp</p>	<p>To support the use of the Geode within the instrument specifications, in Geode software v3.3.0 the maximal programmable temperature ramp has been set to 2°C.</p>

Feature addition	Description
<p>Addition of IQ/OQ kit program in template folder for Sapphire Chips</p>	<p>To support the use of the IQ/OQ kit, in Geode v3.3.0, the IQ/OQ kit Geode program has been added in the Template folder directory for Sapphire Chips.</p>

## Bug corrections

The Geode software v3.3.0 the following bugs have been corrected compared to v3.2.0:

Feature addition	Description
Export live log bug fix	Correction of a bug: when exporting livelogs on a USB stick, a pre-existing livelogs folder at the same storage path will not be overwritten. Another folder named livelogs(x) is created.
Partition temperature for Ruby partition command bug fix	Correction of a bug: when adding a partition step to a new program, the temperature of the partition step automatically adjust at 40°C for a Sapphire Chip partition and 25°C for a Ruby Chip partition.

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