Release Notes: STAG 4.0.1

This release updates STAG to Java 21, modernizes the JavaFX/Chart-FX stack, and includes improvements to CAN log handling, graphing behavior, parameter upload workflows, and project documentation.

Highlights:

•Upgraded STAG to Java 21 and JavaFX 21.0.11.
•Updated Chart-FX integration to the STAG 11.3.1 fork.
•Improved graphing performance and behavior for live and logged CAN data.
•Added better handling for data gaps in graph views.
•Expanded CAN log parser support and test coverage for additional log formats.
•Improved parameter upload workflows, including upload summaries and selectable parameter changes.
•Updated README setup instructions and project documentation for the current Java 21 build.

CAN Log And Graphing Improvements:

•Rebuilt and improved ASC/log parsing behavior.
•Added support and tests for additional Vector, Peak, Kvaser, and SavvyCAN log examples.
•Added LogFileFormat support for clearer log format handling.
•Improved telemetry parsing and graph data handling.
•Added trace-window support for displaying hex data values.
•Improved graph rendering and packaged runtime support.

Parameter Upload Improvements:

•Added parameter upload summary models and UI support.
•Added selection support for parameter upload changes.
•Improved CSV handling around parameter download/upload workflows.
•Added progress indication for parameter CSV downloads.
•Added helper classes for parameter upload conflict handling.

Application And UI Updates:

•Added settings/menu support.
•Updated navigation and input dialog behavior.
•Updated several JavaFX FXML files for JavaFX 21 compatibility.
•Updated bundled manual reference from Z2001-003_SAMm_1.0.2.0.pdf to Z2001-003_SAMm_4.00.3.00.pdf.

Build And Dependency Updates:

•Project now builds against Java 21.
•JavaFX updated to 21.0.11.
•Mockito test configuration updated for Java 21 compatibility.
•Low-risk dependencies updated.
•Runtime packaging and installer generation were verified.

Validation:

•Unit tests were run successfully.
•Java 21 build flow was verified.
•Installer generation was verified.
•Installed application executable was manually tested and confirmed working.