

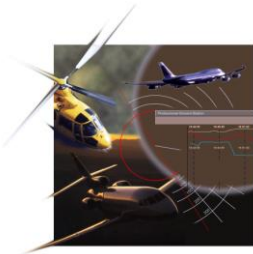
PGS 2021 V5.9.0

RELEASE NOTE No: RLN-PGS_5.9.0_IND-A

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New Features

- Flight recorders
 - CURTISS-WRIGHT DAFR D51615-203-XXX flight recorder has been added with the following capabilities:
 - Download and process of flight parameters and audio.
 - UNIVERSAL AVIONICS 1605-XX-XX flight recorder has been added with the following capabilities:
 - Download and process of flight parameters, audio and datalink.
 - UNIVERSAL AVIONICS 1606-XX-XX flight recorder has been added with the following capabilities:
 - Download and process of audio and datalink.
 - UNIVERSAL AVIONICS 1607-XX-XX flight recorder has been added with the following capabilities:
 - Download and process of flight parameters.
 - HONEYWELL 69004755-041 and 69005657-001:
 - FORTRESS BGA has been renamed to both 69004755-041 and 69005657-001.
 - Real Time Monitoring for FDR data has been added.
- Maintenance Recorders
 - LEONARDO Heliwise has been added with the following capabilities:
 - Process of flight parameters from CSV files generated by Leonardo Heliwise Data Downloader.
 - SAFRAN AFDAMU ED36 has been added with the following capability:
 - Process of flight parameters.
 - SAFRAN FDIMU ED48 has been added with the following capability:
 - Process of flight parameters.
- Datalink
 - UNIVERSAL AVIONICS CMUs support has been added.
 - FMC datalink messages (defined in ARINC702A-5) support has been added.
- Image player
 - A tool has been added to convert a .IMR file to a .AVI file.
- PGS Discovery
 - Cockpit image player and Datalink viewer features have been added.
- Computed parameters
 - The following formulas have been added to PGS:
 - QNH_altitude.
 - Absolute value.
 - Hypotenuse.



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- Others

- A link to Online Operators manual has been added to Help menu.
- A link to Online Operators manual has been added to key dialogs (Help button).

Improvements

- Flight recorders

- HONEYWELL 980-6044-XXX and 980-6050-XXX:
 - Process of CVR data has been modified so that PGS audio cache data are stored in a dedicated chunk of the generated audio files. Loading these audio files becomes very quick.

- Analysis

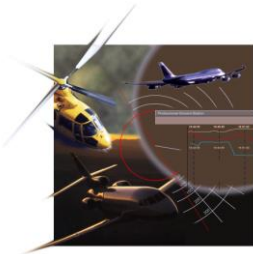
- In Flight tab of the Analysis Report dialog, analysed files with no flight phase detected are listed.
- In Flight tab of the Analysis Report dialog and in Flights dialog, Airport/Heliport Editor can be opened from Select Departure Location and Select Arrival Location so that a new location can be added on the fly.

- Parameter Studio

- In Computed tab, parameter selection list window has been enhanced so that very long parameter names can be completely displayed.
- In all tabs, Discrete formula window and Matrix formula window have been enhanced so that a long text can be completely displayed.
- when doing Save As action on a selected parameter, the new parameter name is pre-populated with the selected parameter name.

- GUI

- A warning message is displayed before closing all PGS dialogs when modifications have not been saved.
- When a user marker is added to the flight parameters view, it is added to audio player as well if audio files are loaded.
- In Fleet Management dialog, columns are resizable.
- "Instrument" menu has been renamed to "3D Replay".
- In the database properties dialog, "Datalink Management Unit" has been renamed to "Communications Management Unit".
- In Flights dialog, when deleting a file which is part of a project, the user is warned.
- All icons of all toolbars have been redesigned.

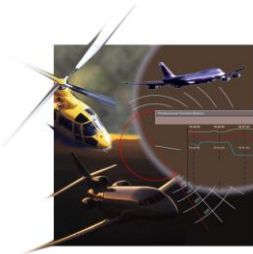


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Fixed Issues

- Flight recorders
 - L3HARRIS FA5001 and FA5001 DVR:
 - When downloading all CVR data, download may fail after Mic1 is downloaded. [Fixed]
 - CVR data cannot be synchronized with FDR data because they are not named properly. [Fixed]
 - HONEYWELL FORTRESS BGA:
 - When requesting to download FDR Flight data backup file, FDR Flight Data Master file is downloaded instead. [Fixed]
- Analysis
 - It is possible to set negative value as duration in extended flight profiles. [Fixed]
 - When saving an Analysis Report, the FROM ID and TO ID fields of an XFF file may not be recorded. [Fixed]
- Audio player
 - If there is no audio device in the computer, PGS crashes when opening the Audio Player. [Fixed]
 - If the audio device of the computer is disabled in Windows settings, PGS crashes when opening the Audio Player. [Fixed]
 - PGS may crash after closing the Audio Player dialog while audio files are still being loaded. [Fixed]
- Database
 - In the Database Report, for some formulas the reported definition is partial. [Fixed]
 - In Parameter Studio, a decimal value written with a coma instead of a dot will be stored in the database as an integer (all digits after the coma will be ignored). [Fixed]
- Image player
 - The duration of an IMR file is not correctly calculated when timestamps loop back. [Fixed]
- GUI
 - For checkboxes inside a grid, when changing checkbox state using keyboard's spacebar, the new state is not applied and has no effect. [Fixed]
 - Several same recorders may be listed in the Crash Recorder → Select Flight Data Recorder dialog. [Fixed]
 - In Database Manager dialog, sorting the grid will result in selecting a database that is not the relevant one. [Fixed]
 - In Database menu, there is a translation error in French language (PGS Vision only), « Editer la Database » shall be replaced by « Editer les propriétés ». [Fixed]
 - In Download dialog when the Honeywell 980-4750-XXX is selected, there is a text error in French language, « Annuler » button shall be renamed « Décharger ». [Fixed]
 - While playing CVR data synchronized with FDR data, the play bar on flight parameters view continues to move although there is no FDR data matching CVR data timestamp. [Fixed]



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Analysis

- The results of an event-based measurement are stored although the event itself is rejected in the Analysis Report. [Fixed]
- 3D Replay
 - While importing a satellite map, PGS may crash if the user clicks on another tab of the dialog. [Fixed]
 - Clearing screen while a flight with a 3D Replay panel is playing may make PGS to crash. [Fixed]
 - PGS may crash after closing the Panel Manager dialog. [Fixed]

Known Issues

- Flight Recorders
 - HONEYWELL 980-6032-XXX
 - During the conversion of the CVR data to audio files, the download dialog of PGS may not respond but the resulting audio files are correct.
- 3D Replay
 - In 3D view, when loading a panel, Error #38 may occur because of a lack of DirectX texture memory.
- Synchronisation
 - Loading data files with a different timeline may take a lot of processing time and synchronization may not be consistent.
- GUI
 - When displaying flight data, after several zoom-in, curves may disappear or may be displayed twice.
 - When some Flight parameters views are detached, if a marker is added to the main Flight parameters view, it does not appear in the detached Flight parameters views until they are refreshed.

Deprecations and Removals

- Maintenance Recorders
 - For Helionix QAR type, "Rotor" column and "Show Files Without Rotor Started" check box have been removed.