PGS 2020 V5.8.0

PGS V5.8.0

New Features

- Flight recorders
    - CURTISS-WRIGHT FORTRESS flight recorder:
        - Processing of datalink has been added.
    - HONEYWELL 980-6032-XXX flight recorder has been added with the following capabilities:
        - Downloading and processing of audio and datalink.
    - HONEYWELL 980-4750-XXX flight recorder has been added with the following capabilities:
        - Downloading and processing of flight data.
    - HONEYWELL FORTRESS BGA flight recorder has been added with the following capabilities:
        - Downloading and processing of flight data, audio and datalink.
    - All references to L3COM (as a recorder manufacturer) have been changed to L3HARRIS.
    - L3HARRIS FA2100 has been added with the following capabilities:
        - Processing of datalink.
- 3D Replay
    - High-quality satellite map streaming has been added (up to 1meter resolution).
      This feature requires internet access to pgs-support.com website and a dedicated service subscription.
    - Offline high-quality satellite map support has been added (20meters resolution).
      Maps are available on demand by country or continent.
- Image player
    - +/- 90° image rotation has been added.
- PGS Main window, Image player and Datalink viewer
    - Replay speed control has been added to be consistent with 3D Replay view and Audio player.
- Computed parameters
    - AngleConvert has been added as formula.
- Others
    - Operator manual link has been added to Help menu.
    - Release note link has been added to Help menu.
   - Licences information has been added to Update menu.
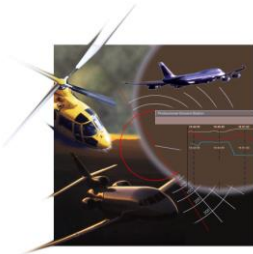
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RELEASE NOTE No: RLN-PGS_5.8.0_IND-A

Improvements

- Flight recorders
    - CURTISS-WRIGHT FORTRESS:
        - Extra information has been added to outputted audio WAV files to drastically reduce loading time in PGS Audio player.
    - CURTISS-WRIGHT EFDMU:
        - Processing of flight data files has been enhanced to handle corrupted files (files with a bad length due to loss of power).
    - L3HARRIS FA5001 DVR:
        - Processing of audio has been enhanced to handle "garbage audio data".
- Analysis
    - A flight tab has been added to the Analysis Report.
- Datalink
    - Datalink management unit Honeywell EASy2 has been renamed as Honeywell Generic.
    - Datalink management unit Rockwell & Collins Generic has been added.
- Statistics export
    - A filter by flight date or analysis date has been added to narrow down the content of the outputted CSV file.
    - Options have been added to customize the content of the outputted CSV file so that it can be used as it is to create rich reports with Microsoft Power BI software.

Fixed Issues

- Flight recorders
    - HONEYWELL 980-6020/6022-XXX:
        - Processing of audio data may not be consistent.
    - HONEYWELL EVXP:
        - Processing of EVXP LOG files outputs XFF files with no data.
    - HONEYWELL 980-6044/4131-XXX:
        - Downloaded files are not named correctly if "All" option is selected.
    - L3HARRIS FA5001 & FA5001 DVR:
        - When downloading data from the recorder, a message "Connection lost" may appear although the download processing continues.
    - L3HARRIS FA5001 DVR:
        - Processing of image data from IP Camera outputs IMR file where h264 IDR images may not be sliced properly.
        - Processing of image data from IP Camera may take a lot of time and end with a "out of memory" message.
- Analysis
    - Archive of Analysis window cannot be opened because of a bad Start Time value in flight files.
    - In Flight window, user shouldn't be able to fill manually Departure and Arrival but only select an existing airport/heliport.
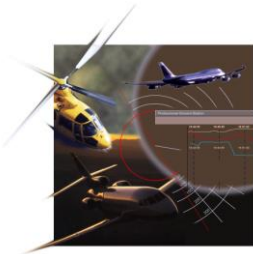
- o In Flight window, if start date and time values are wrong, the whole grid might be black.
- o In extended flight profiles, when "begin of file" is used in an alternate list of conditions, the analysis engine behaviour may not be correct.

- **Audio player**
  - o When playing audio data, closing Audio player window will make PGS not responding.
  - o When loading multiple WAV files using open file dialog, all files may not be loaded.

- **Image player**
  - o h264 images of an IMR file may not be properly decoded.

- **GUI**
  - o When displaying flight data, editing a parameter from the contextual menu of the graphic scale doesn't select the relevant parameter in Parameter Studio.
  - o When displaying flight data with slider feature enabled and moving the slider over a detached window, stickers of PGS main window appears instead of the one of the detached window.
  - o When displaying flight data, scales of detached graphic views cannot be moved or resized.
  - o When displaying CURTISS-WRIGHT FORTRESS accelerometer's flight data from a XFF file larger than 4GB, zooming in may result in displaying wrong values.

- **Fleet Management**
  - o In Flights window, Flights Start date can be incorrectly displayed due to Windows regional settings.
  - o In Flights window, Departure and Arrival columns can be filled with free text.

- **3D Replay**
  - o In Panel editor, if an instrument located in a sub-folder is added to a panel, it is not loaded.
  - o In Panel editor, if instruments are multiselected:
    - ▪ X, Y, width and height values are not the one of the multi selection rectangle in both toolbar and properties dialog.
    - ▪ changing X, Y, width or height value does not result in the expected behaviour.
  - o In Instrument editor, if instrument models are multiselected:
    - ▪ X, Y, width and height values are not the one of the multi selection rectangle in both toolbar and properties dialog.
    - ▪ changing X, Y, width or height value does not result in the expected behaviour.
  - o When replaying a panel, overall instruments position in tabs (attached or detached) may not match position defined in the PANEL file.

- **Datalink**
  - o In datalink messages, invalid position (latitude and longitude) is processed as a value instead of being flagged as invalid.

- **Synchronization**
  - o Synchronizing data files with a different timeline may take a lot of processing time and result may not be consistent.
  - o When replaying image data and flight data, image frame rate is not correct.

- **Others**
  - o When adding/editing a place in Airport/Heliport editor, its identifier is not saved properly.
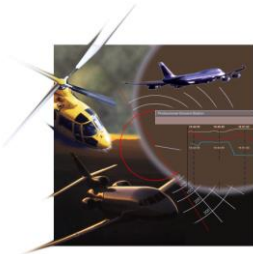
Known Issues

- Analysis
  - The results of an event-based measurement are stored although the event itself is rejected in the Analysis Report.
- Synchronization
  - Synchronization timestamps and power up counters used for synchronization of different data sources may not be always increasing as PGS expects. This causes a bad synchronization behaviour.
- GUI
  - When displaying flight data, after several zoom-in, curves may disappear or may be displayed twice.
  - For checkboxes inside a grid, when changing checkbox state using keyboard's spacebar, the new state is not applied and has no effect.

Deprecations and Removals

- Others
  - Event Maintenance feature has been removed.
  - AFC feature has been removed.
  - In Database manager, save as text feature has been removed.