

APP 7.0

Release Notes



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Release Notes

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1 General Information

1.1 Current Version and Editions

The following release notes document the upgrades and changes made to the newest version of the Aircraft Performance Program, APP 7.0.

There is one edition of the current version:

- Professional Edition: Maximum number of functionalities available over a broad range of installation preferences (e.g. stand alone, network)

1.2 List of Releases

This table list all the releases and release dates for APP

Name/Version/Edition	Release Software	Notes	Date
APP 7 Professional	1.0		March 2019
APP 7 Professional	2.0		December 2019
APP 7 Professional	3.0		August 2020
APP 7 Professional	4.0		June 2025

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2 Version Release Notes

2.1 Fixes, Upgrades, Updates and Work done

The releases and the implemented updates, fixes and added features having been generated are listed in the table below.

Release Number	Version	Description
7.0.1.0	Professional	New Major Version
7.0.2.0	Professional	Added - New mission segment <i>Descent at no Credit</i> (CAS) Changed - Removed MTOW limit in <i>LWF</i> example aircraft - Removed "Save As" context menu item from charts as this crashed APP without warning on some machines Fixed - Renaming range extender name did not update the name in the electric propeller datasets - Fixed tab order in the mission segment list
7.0.3.0	Professional	Added - New Turn-Rate SEP and SEP Envelope chart types with KTS/s lines (acceleration) instead of ft/s lines are available - An experimental UI option is available for users with large screens: the mission result chart is displayed as a dockable pane. - When creating/editing an aircraft model, a warning message is displayed alongside the data tables when a table factor is active - On error during mission computations, APP will jump to the segment list and select the segment where the error occurred. - Added colored tabs for aircraft, mission computation and performance chart files Changed - Mouse wheel scrolls the mission computation sheets and performance chart sheets - Increased the default window size - Increased the default line width of charts - Changed the size and appearance of the Select Segment dialog - Changed the file name in the sheet output to be

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		case sensitive Fixed - Fixed issue where SEP lines in turn rate charts did not extend back to 0 deg/sec - Fixed clipped table header texts - Fixed swapped output in TO sheet output for ground run and takeoff distance - Missing error for OEI takeoff computations when V_{ef} was larger than V_r - Rolling friction could cause negative accelerations during takeoff when thrust was insufficient - Fixed incorrect acceleration during the derotation segment of a landing computation - Some tooltips were missing from toolbars - Switching tabs in the missions' computation tab caused the result to be cleared
7.0.4.0	Professional	Added - New propeller propulsion chart that shows maximum propeller power and maximum motor power Changed - Updated to latest VC++ and windows SDK Version Fixed - Issue where the Energy Exchange mission segment could result in zero SEP - Long data set names are properly shown in the aircraft model user interface - Fixed issue where a too large temperature offset could prevent a performance file from opening

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2.2 Known Issues and Solutions

Please feel free to inform us if you encounter any bugs or have an improvement to propose to us.

Proposed Fix or Improvement	Description
Exporting Charts	The current best practice to export charts is to use a pdf printer and save the chart as a pdf. This results in the highest possible quality and consistent size.
Electric propeller propulsion for ground-operations, decelerate and descent segments	If the power setting of the electric motor is set to 0%, and the minimum torque is also 0, the propeller state might not have a solution. Choose a small amount of power (e.g. 10%) for ground-operations, decelerate and descent segments.
Mission segments for electric propulsion	Note that not all mission segments work with electric propulsion, notably ones that rely on a non-zero fuel flow (e.g. Cruise at best SR, Loiter at best FF, ...). Most segments however work with a hybrid propulsion, if the generator is in "Sustain Charge" mode.
High DPI screens	Some users with very large screens (high DPI) and high display scaling factors might experience slightly blurred user interface elements. For further information, see https://support.microsoft.com/en-us/kb/2900023 . Note that the option to <i>Disable Display Scaling On High DPI Settings</i> might result in clipped text and is not recommended.