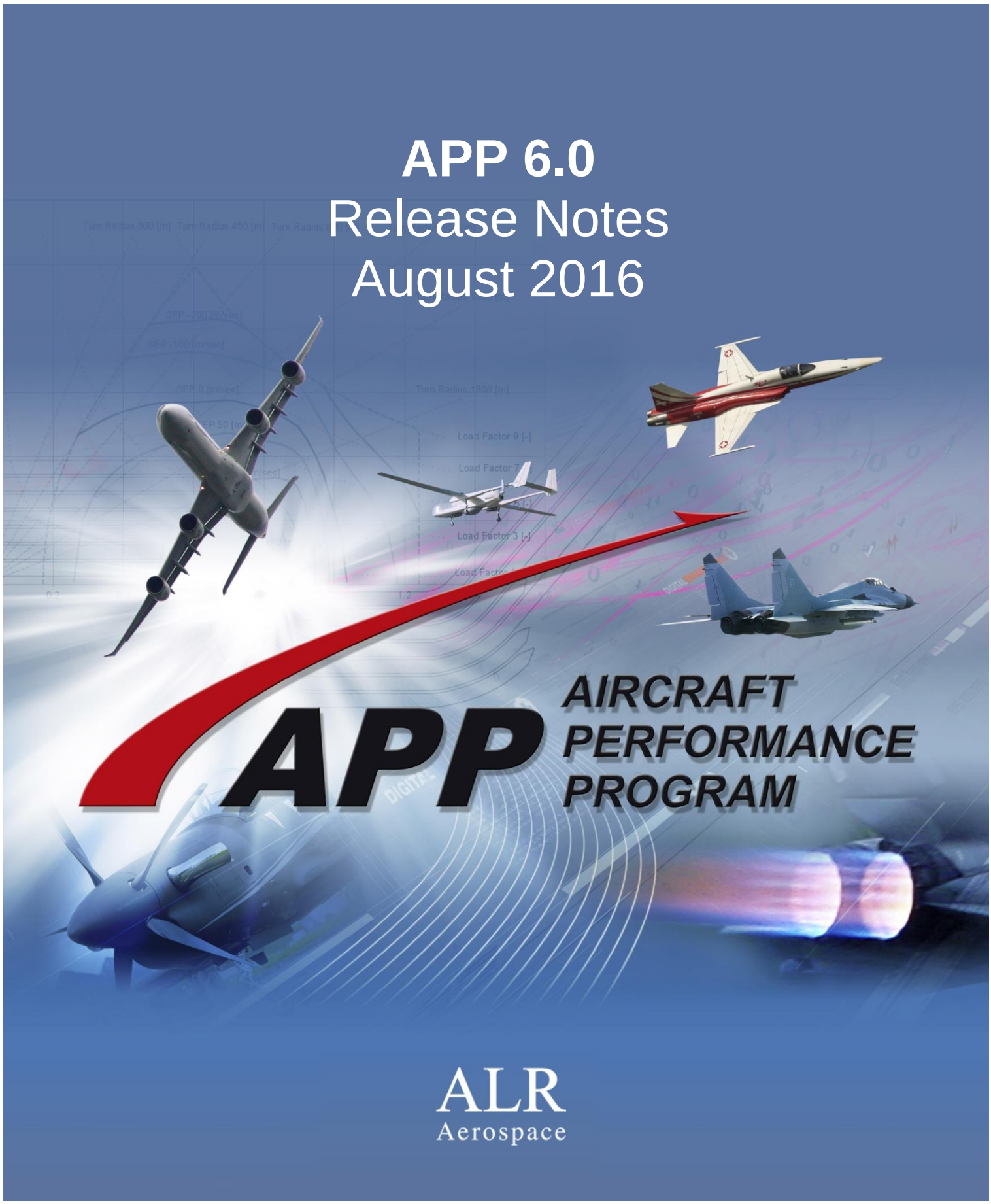
APP 6.0
Release Notes
August 2016



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APP 6.0 - Aircraft Performance Program

Release Notes August 2016

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Content

Content 3

1 General Information 4

1.1 Overview 4
1.1.1 Current Version and Editions 4
1.1.2 Releases 4
1.2 Support 6
1.2.1 Getting additional information 6
1.2.2 How to Contact ALR 6
1.2.3 Miscellaneous support 6

2 Version release notes 7

2.1 Fixes, Upgrades, Updates and Work done 7
2.2 Known Problems, proposed improvements 9

1 General Information

1.1 Overview

1.1.1 Current Version and Editions

The following release notes document the upgrades and changes made to the newest version of the Aircraft Performance Program, APP 6.0.

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)

The first release of APP 6.0 Professional Edition of has been issued in March 2012.

The current release of the Professional Edition is R1.9 and has been issued in August 2016.

1.1.2 Releases

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

Name/Version/Edition	Release Software	Protection	Description	Date
APP 6 Professional	0.0	WIBUKey by WIBU	Professional edition of the APP 6 program	March 2012
APP 6 Professional	0.1	WIBUKey by WIBU	Professional edition of the APP 6 program	March 2012
APP 6 Professional	1.0	WIBUKey by WIBU	Professional edition of the APP 6 program	December 2012
APP 6 Professional	1.1	WIBUKey by WIBU	Professional edition of the APP 6 program	May 2013
APP 6 Professional	1.3	WIBUKey by WIBU	Professional edition of the APP 6 program	July 2014
APP 6 Professional	1.4	WIBUKey by WIBU	Professional edition of the APP 6 program	October 2014
APP 6 Professional	1.5	WIBUKey by WIBU	Professional edition of the APP 6 program	December 2014

APP 6 Professional	1.6	WIBUKey by WIBU	Professional edition of the APP 6 program	May 2015
APP 6 Professional	1.7	WIBUKey by WIBU	Professional edition of the APP 6 program	March 2016
APP 6 Professional	1.8	WIBUKey by WIBU	Professional edition of the APP 6 program	April 2016
APP 6 Professional	1.9	WIBUKey by WIBU	Professional edition of the APP 6 program	August 2016

1.2 Support

1.2.1 Getting additional information

Either ALR or your reseller can help you with any problem you may encounter installing or using the APP 6 Professional Edition.

1.2.2 How to Contact ALR

Postal Address:
Arbeitsgruppe für Luft- und Raumfahrt
Gotthardstrasse 52
CH-8002 Zurich
Switzerland

Phone: +41 (0)44 202 93 88
Fax: +41 (0)44 202 24 00

Website: www.alr-aerospace.ch
Email: alr@alr-aerospace.ch

1.2.3 Miscellaneous support

For any additional questions regarding the applied software protection systems the vendors websites are as follows:

WIBUKey Software protection: www.wibu.de

Please download any driver update for the software protection keys from these websites.

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:

Releases/ Fixes/ Updates	Version/ Release	Description
New Edition	6.0 R0.0 Professional	Version 6.0 R0.0 Professional Edition generated and released
Release Upgrade	6.0 R0.1 Professional	Release Version 6.0 R0.1 generated
Fix	R0.1	GUI bugfixes. Problems with reload aircraft button state, L/D chart and jet thrust SFC chart fixed.
Release Upgrade	6.0 R1.0 Professional	Release Version 6.0 R1.0 generated
New	R1.0	Added: - Take-off and Landing Performance Charts - Mission Parameter Study Computation Mode - Aircraft Examples - Revised Manual & Technical Reference Document - Revised User Interface
Release Upgrade	6.0 R1.1 Professional	Release Version 6.0 R1.1 generated
Fix	R1.1	Fix issue where Performance Chart calculations could only be performed after saving and reloading.
Release Upgrade	6.0 R1.3 Professional	Release Version 6.0 R1.3 generated
Fix	R1.3	Fix for Windows 8.1 users, corrects wrongly displayed text in the user interface. Minor corrections to the user manual.
Release Upgrade	6.0 R1.4 Professional	Release Version 6.0 R1.4 generated
Fix	R1.4	Fixed: - Landing: selection of pilot technique “Target Sinkrate” caused an error. - Mission calculations: Configuration defined in “Initial Settings” tab could differ from configuration of first mission segment. - OEI Fuel Flow was calculated wrongly.

		- First and last point of mission segments were not plotted in a special case. - Stability improvements for propeller aircraft Added: - Landing: A new controller enables the calculation of propeller landings at engine and propeller limits. - New Segments for descent at no credit Updated User Manual and Technical Reference.
Release Upgrade	6.0 R1.5 Professional	Release Version 6.0 R1.5 generated
Fix	R1.5	Fixed: - For propeller aircraft with multiple engines, thrust was calculated wrong
Release Upgrade	6.0 R1.6 Professional	Release Version 6.0 R1.6 generated
Fix	R1.6	Fixed: - User Interface display bug when deleting Configurations under certain conditions Added: - Importing of Propulsion data from other APP6 aircraft files.
Release Upgrade	6.0 R1.7 Professional	Release Version 6.0 R1.7 generated
Fix	R1.7	Fixed: - Fixed issue where Landing Roll segment would not stop properly - Under specific conditions, no limit line was displayed in the Turn-Rate Chart (SEP). Added / Improved: - Significantely improved writing speed of files - Expanded the description of mission segments in the User Manual - *Fuel at End of Mission* user interface elements improved when using external tanks, now always displays % fuel related to the tank condition at the end of the mission
Release Upgrade	6.0 R1.8 Professional	Release Version 6.0 R1.8 generated
Fix	R1.8	Visual improvements for users with high DPI screens and large display scaling factors
Release Upgrade	6.0 R1.9 Professional	Release Version 6.0 R1.9 generated

Fix	R1.9	Fixed: - Some users experienced a crash at startup on Windows 10. This was related to the WIBU encryption and has been fixed - Fixed issue related to the *Group Operation* segment when entering thrust force instead of the power setting (percentage) - Fixed issue that prevented the computation of a mission parameter study Added / Improved: - Higher numerical precision in the output of mission computations using the command line mode - Improved error messages - Revised segment *Energy Exchange* - Added the -log command line flag to App6.exe to show a debug console and write a log file

2.2 Known Problems, proposed improvements

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

Proposed Fix or Improvement		**Description**
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 *Disable Display Scaling On High DPI Settings* might result in clipped text and is not recommended.