Easy on-PC Version History

This document lists all Easy on-PC software releases. Some versions have not been distributed at all or only for selected customers. The changes made are cumulative, which means that changes introduced in one version are also included in later versions.

Version Date	Description
Jate (EOPC) V03.09.02.04 November 2021 Compatible with EasyOne Air Firmware V1.17.0	 Bug fixes: Grading for DLCO2017 A+ is now obsolete in XML-Export Fixed issue: system was recognizing a Silabs device UncPath for SQLite patient database is now savedto configuration Features: Added feature in EMR/XML: "perform test"-command with AgeOnly-studies and FirstContactDate Add message number parameter to spirometry tests (ATS/ERS spirometry standard
(EOPC)	 2005), MBW and DLCO Improvements: Shows %predicted for ratio parameter Shows parameter PEF [L/min] in best selection Reworked incentive animations to remove the dependency on Adobe Flash Player.
V03.09.00.10 June 2021 Compatible with EasyOne Air Firmware V1.16.0	 Integrated the flow sensor firmware update v2.0.1.0. Bug fixes and improvements: Calibration check: Acceptability of Cal-Check trials can no longer be overridden. Provocation test: if FVL instead of FVC is the chosen test type, the dialogue for entering environmental conditions is shown prior to the tests. SQL Server database selection: a warning message is displayed if the user cannot access the selected database. EMR order handling: improved order loading mechanism when a significant number of open orders are present.

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Version Date	Description
Date (EOPC) V03.08.00.11 January 2021 (Internal release only) Compatible with EasyOne Air Firmware V1.15.0	 Spirometry Standard 2019 update: User can switch between 2005 and 2019 spirometry standard for FVC/FVL test Updated acceptability and usability rating of FEV1 and FVC parameters under 2019 standard setting Updated quality grading for FVC/FVL test under 2019 standard setting Updated quality grading for SVC test according to 2019 standard Updated test report with actual values shown first in result columns Cal-check error tolerance reduced from 3.5% to 3% Enhanced EMR features*: Add support for merging patients based on HL7 messages. Allow patients to have alternative display IDs. Allow the current hospital to be defined in the setting. Allow location filtering based on the hospital, to which the order is assigned. * Please contact connectivity@ndd.ch for detailed information and instructions.
(EOPC) V03.07.02.02 October 2020 Compatible with EasyOne Air Firmware V1.15.0	 Improved UI localization for all available languages Integration of EOA V1.15.0 update New design of EasyOne Connect Smart Installer Improved user handling: Only privileged users can deactivate user handling User group can be deleted once all member users have been deleted
(EOPC) V03.07.01.09 June 2020 Compatible with EasyOne Air Firmware V1.14.0	 Compatibility update for EasyOne Pro/LAB software release V03.07.01.09 Important note: When Easy on-PC and EasyOne Pro/LAB devices use a shared database, all products must have the same version of software installed.
(EOPC) V3.07.00.02 March 2020 Compatible with EasyOne Air Firmware V1.14.0	 Harmonization with lung function standards and new predicted values: Introduction of Z-score graph according to the ATS report guideline 2017 New predicted values "Kainu (Finland)" Improved usability and functionality for lung function testing: Improved recognition of exhalation for SVC tests Centralized User Management and Improved Cybersecurity: Ability to integrate with your Active Directory for secure & central user management General improvements and bug fixes: Fixed an issue where autocompletion incorrectly completes age entry Fixed an issue where HL7 orders cannot be sent to EasyOne Air

Version	Description
Date	
(EOPC) V3.06.00.23	General Improvements and bug fixes:
December 2019	 Fixed an issue where for high resolution displays the scaling was not adapted correctly
Compatible with EasyOne Air Firmware V1.13.0	 Fixed a synching issue with EasyOne Air, where in some rare cases trials were not synchronized to EasyOne Connect
(EOPC) V3.05.01.07	Improved Cybersecurity
V3.05.01.07	 Possibility to define your own database password
March 2019	 Option to enforce strong passwords for user logins
Compatible with EasyOne Air	 Option to enforce password expiration for user logins
Firmware	Improved FVC and FVL Testing Functionality
V1.10.2	 New setting to enforce 6s expiration
	 New setting to show a warning prompt if end of test criteria is not fulfilled
	 Generally improved messaging (for details see "AppNote MessageNo V08R.pdf")
	General Improvements on Usability
	 Tutorial movies can now be played directly in the software
	General Improvements and bug fixes
	 Danish and Norwegian are now supported as software language
	 Fixed an issue where the PDF report was empty for Chinese language
	 Fixed an issue where the VC pre value is used in the FVC post test
	 Extended number of saved error codes from three to seven Attention: this might affect your XML interface (for details see "AppNote MessageNo V08R.pdf")
(EOPC)	Improved data handling and performance
V3.04.00.23 April 2018	 Keep your historic data by automatically importing existing tests as pdf's and attach them to the patient history in EasyOne Connect
Compatible with EasyOne Air	 Further increased database performance to handle extremely large databases containing more than 100'000 patients
Firmware V1.9.1	General Improvements and Bugfixes
	 Fixed an issue where the user feedback was not correct on SVC tests with heavy tidal breathing
	 Better allignement of FV and VT curve on standard report
	 Generally improved workflow of online tests in combination with EasyOne Air

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Version Date	Description
(EOPC)	Improved Provocation Testing Functionality
V3.03.00.11	 Define and modify provocation protocols
November 2017	 Added exercise provocation as new standard protocol
Compatible with EasyOne Air	Improved Reporting and Trending Capabilities
Firmware V1.8.0	 Enter and trend external FeNO, MIP, MEP, SpO2 values add them to spirometry report and or transfer the values to the EMR system
	\circ Automatically trend parameters of the last 5 tests on the standard PFT reports
	 Possibility to visualize more parameters on the standard report
	 Show Z-Score and %predicted simultaneously on all standard reports
	\circ Generally improved report layouts by dynamically arranging graphs and tables
	Improved Functionality with EasyOne Air
	 Send EMR orders to EasyOne Air and process orders offline on EasyOne Air
	 Improved ease of use for EasyOne Air firmware updates
	 Fixed issue where in some cases EasyOne Air updates failed
	 Fixed issue where in some rare cases results could not be synchronized with EasyOne Air
	General Improvements and Bugfixes
	 Support Thai Calender Format
	\circ Fixed in the GDT interface where returning post tests with best trial setting failed
	 Fixed an issue where changes in the configuration were only applied after a restart of the application
(EOPC)	Improved reporting capabilities:
V3.02.00.06	 Comments can be added much faster
July 2017	\circ Define standard text blocks and quickly add them to the report when needed
Compatible with EasyOne Air Firmware 1.7.0	 The highlighting color used to show abnormal results can now be defined in the configuration (e.g. black, red, etc.)
	Connectivity performance improvements:
	 Increased the speed of an EasyWare database import
	 Fixed an issue with the import of very large EasyWare databases
	 Drastically increased the speed of loading the EMR order list
	 Fixed an issue where EMR orders could not be closed, when certain special signs were used in the comment section
	 EasyOne Air Firmware can now easily be updated via EasyOne Connect

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Version	Description
Date	
(EOPC) V3.01.00.01	Connectivity to EasyOne Air
	 Full data synchronization with EasyOne Air
May 2017	 Online curve display using EasyOne Air is now available
	 Renaming of Easy on-PC software to EasyOne Connect with adjusted icon and installation path
	Important Note: The name change might affect existing interfaces to third party solutions. In case of a software update the installation path and file name remain unchanged. In case of a fresh installation the new installation path and file name will be set as default option. It is possible to change the default installation path during the installation process.
	Improved Calibration Check functionality
	 Flow targets now also meet the OSHA disability standard
	 Additional multi flow calibration check option requiring only one trial
	Improved performance and bug fixes
	 Faster patient database search
	 Better handling of patients with birthday 29th of February
	 Individual patients can now be exported from MS SQL server database
	• Fixed an issue where in some cases the calibration check data could not be exported

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Version Date	Description
(EOPC) V2.02.00.14	Z-score and improved reporting functionality:
	 Z-score is now available on the display and on the report
August 2016	 It is now possible to only show acceptable trials on the report
	 Trial time can now be shown on the report
	Improved data handling:
	\circ It is now possible to directly export and import individual patients with all tests
	Improved cyber security:
	 In order to better control access, permissions of different user groups can now be adjusted directly
	 User can set custom installation path for Easy on-PC
	 Additional logging of patient search activity
	 Improved traceability in audit trail
	Bug fixes
	 Easy on-PC compatibility with Windows XP
	 Fixed report error when all trials have been deleted
	 Fixed error when searching patients in Allscripts
	 Fixed unwanted duplication of patient records during import
(EOPC)	Improved connectivity:
V2.01.00.08 March 2016	 Switching from EasyWare to EasyWare Pro (Easy on-PC) is now much easier. EasyWare databases can now be imported in Easy on-PC and EasyOne Pro / LAB. Summary interpretation of several tests is now available in the HL7 message "% Pre/Post" change is now available in the HL7 message Extended XML export (Technician, Reviewer, Modified) Bug fix in EMR review workflow Bug fix when SQL server is not connected during software start up
	Improved performance:
	 Faster loading time for biological quality control

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Version	Description	
Date		
(EOPC)	Improved data performance and patient data encryption	
V2.00.01.04	 Support of MS SQL Server database 	
Sept. 2015	 Improved performance for large databases and heavy multi user-access 	
	 Improved encryption and support of SSL connections (MS SQL Server) 	
	 Faster merging of databases 	
	Windows 10 Ready	
	Support of new predicted publications and improved usability	
	New publication: JRS (Japan)	
	New publication: Ip (Hong Kong)	
	 New publication: Chhabra (India) Eived "out of memory" issue when undeting predicted of tests 	
	 Fixed "out of memory" issue when updating predicted of tests 	
	Additional language support	
	 Added Chinese language 	
	 Added Swedish language 	
	Improved XML export	
	 Added system interpretation 	
	 Fixed "out of memory" problems for xml export of large databases 	
(EOPC)	Improved Design & Usability	
V1.9.0.18	 New clean and simple user interface 	
Sept. 2014	 Improved test acceptability & test messaging 	
	More Functionality	
	 Delete individual tests 	
	Improved Connectivity	
	 Improved connectivity workflow (direct printing) 	
	 Concurrent message handling improved for XML and HL7 connectivity 	
	 Support EasyOne screen connector and cradle for Windows 8 	
	 Fixed connectivity issue with EasyOne 	
	 Fixed connectivity issue with Allscripts Professional / Touchworks 	
V1.8.0.14	HL7 supported	
March 2014	Redesigned report layouts	
	The trend graph is now available for custom reports	
	New spirometry predicted set Separ 2013, extended NHANES-III extrapolation up to age 95	
	Fixed bug where predicted values were not available for ethnicity NE/SE-Asian	
	USB 3.0 for hand held sensor supported	
V1.7.6.4	• Option to automatically lock screen when user is inactive for X minutes (21 CFR part 11)	
Sept. 2013	Option to enter a patients year of birth instead of full Date of Birth	
	Latest Screen-Connector and Cradle drivers supporting Windows 8	
	Fixed: Software not responding after flow sensor was connected	
V1.7.4.8	Redesigned DLCO screen	
June 2013	Improved User Login supports	
	 UserID and password 	
	 User roles with different privileges 	
	Allow loading predefined configuration	
	Also test data of previous SW versions can be imported	
	Option to enter age instead of Date of Birth	

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Version	Description
Date	
V1.6.0.10 February 2013	 Pediatric specific improvements Automatically zoom small spirometry curves "Birthday cake" children incentive added Acceptability criteria simplified for children <8 years of age (End-of-Test Warnings: Abrupt End / Blow Out Longer) Spirometry screen improved
	 Layout and information presentation improved Curves adapt to window size (enlarged flow-volume and volume-time curves) Added full screen view of curves and result grid via double click Volume-time curve zooming added
	 New LCI predicted (Sylvia Verbanck, Thorax 2012) Russian translation improved
V1.5.0.18 December 2012	 Bronchoprovocation (Challenge testing) Mannitol Methacholine Balloon incentive with automatic ethnicity and gender selection Predicted Additional Sets: e.g. Quanjer 2012 (GLI), Falaschetti 2004, Zapletal 2003 Additional FRC predicted values Patient Height: allow more precise patient entry and predicted calculation (e.g. 170.7 cm) Database size reduced Additional language: Italian Open/review/export a test in "Raw Data Format" WBreath Speed improvement when adding a trial User interface improvements Windows 8 ready (32 and 64bit): Attention: Tablets with Windows RT and Windows 8 look almost identical, but our software only supports the 'full' Windows 8 version.
V1.4.1.2 June 2012	 Added new textual spirometry interpretation (JRS) which corresponds with existing graphical interpretation Fix: SVC end of test criteria with automatic test end was in some cases too early Improved test comment when updating an existing test, e.g. when weight was not correctly entered. New comment contains units of changed values (e.g. kg or lb for weight)
V1.4.0.4 Jan. 2012	 New Predicted Sets Pérez Padilla 2001: Spiro, Mexican Workers Pérez Padilla 2003: Spiro, Mexican Children Pérez Padilla 2006: Spiro, PLATINO study, adults >40 Klement, Russia: Spiro Klement, Russia: Lung Volumes Allows FRC test reviews "Don't hesitate" message appears less often. BEV criteria has been extended
	 Monkey incentive runs also on old (slow) PCs Interpretation tree: localized parameter names

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New language: Russian

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Version Date	Description	
V 1.3.4.2	New Incentive supporting inhalation (Monkey)	
Oct. 2011	Optionally show large incentive	
	 New patient entry fields: ordered by, referred by, smoker pack-years 	
	New pediatric predicted sets (Nystad, Vilozni)	
	• Optionally show FEV1/FVC in % (all ratio parameters)	
	• Print Volume-Time curve with 1:1 aspect ratio by default	
	Improved fonts and layout of user interface	
	Restore last selected patient list order	
	Merge (import) databases	
V 1.3.1.8	Fixed GDT review bug	
Apr. 2011	• Allow user to return results to EMR even when standard EMR mode is finished	
	Allow user to activate DLCO settings (for DLCO test review)	
/ 1.3.0.4	New Spirometry predicted values: Stanojevic 2009 and Langhammer	
eb. 2011		
V 1.3.0.0	Synchronize with EasyOne data	
	Customizable EMR connection available (PlugIn)	
	 Change Patient Data and recalculate previous performed tests 	
	 Change Predicted Sets and recalculate previous performed tests 	
	Add comments to patient, printed with report	
	Patient search by ID	
	Selectable system created Patient ID	
	Improved birth date entry	
	Optional Smoker status	
	 Spirometry tests with very low flows and volumes 	
	Optional non smoker Lung age feature	
	Merge patient feature	
	Multi line comments	
	New 2 page report	
	 Summary report for 'Best Trial' configuration improved 	
	Last calibration check date available on customized reports	
	Default settings (Predicted Sets) selected by region	
	Export of single test in XML format	

New Spirometry predicted values: Gutierrez et al. (Canada).; Mengesha et al. (Ethiopia); :

Gutierrez et al. (Chile); Eigen et al. (USA); Rosenthal (UK)

DLCO test review constraint: do not change collection bar

Version Date	Description
V 1.2.3.10 May 2010	 Delete patient User ID (Technician ID) User ID (Technician ID) User handling with simple Log-On functionality User ID on report (if test was performed with a valid user Log-On) XML export SVC with expiration only is accepted (configuration flag) Updated manuals (help button opens manual on context specific page) Direct FVC or FVL test selection in Perform Test menu Test procedure starts directly ("Add Trial" after "Perform Test" click is skipped) Calculation of Best (Reported) column adapted (recalculate ratios; take best for volume parameters; report IC, IRV, VT, ERV parameter as average values / to be consistent within the Best column) COPD interpretation graph on standard spirometry report Summary report adaptations: Includes FVC/FVL, SVC and DLCO (within 12 hours) independent on order of test execution and test selection Show selected predicted sources Fits on one page
V 1.2.0.6 February 2010	 New predicted source: Austrian 1994 Children Animation available as well for tidal and manual test end The FV-curve is no more covered by the child animation graphic when reviewing an old test New added patient is selected by default (shown in the bottom left corner, as well in GDT mode) Removed USB stick does no more influence saving test data Improved display of Vietnamese texts Additional Interpretation: Gold/Hardie 2008 without "at risk for COPD" GDT: additional data transferred contains post test measurement data overets single measurement data
V 1.2.0.0 November 2009	 exports single measurement data with setting best trial Basic children incentive New Languages (French and Vietnamese) Support Screen with 1024x600 GDT with PDF integration Draw predicted curve instead/additional to points Optional patient fields (name, weight, Asthma, DLCO) Allow rejecting last trial GDT: single measurement list includes Predicted (8460) and LLN (8461) Print Preview: selected report is shown in the drop down list Bio Cal Checks listed as well in the patient history Spiro Results Grid expands on double click Shown precision specific for each parameter
	 BugFix: Cal Check report contains test date EOPC only Newest USB drivers (Windows 7) Ready for Windows 7 64Bit

Version	Description	
Date		
/ 1.1.2.3	Improved Report handling, Report designer, allows e.g. show best column only	
End July 2009	Report template contains BMI and LLN column	
	Birth Date format on the patient entry form according to the PC culture settings	
	Allow altitude entry in feet	
	Entry of longer comments (65000 chars)	
	MEF Parameter added	
	New DB functions (new, copy)	
	User can define the name of ethnicity "Other"	
	Added Spanish, Dutch, Portugues, Turkish	
	NLHEP, NICE Interpretation added	
	BugFix:	
	new Predaut (remote application start error)	
	• GDT	
	 allow selection of character set 	
	 allow longer Paths 	
	 Handling empty string for patient height and weight 	
	Show graph in the Excel export	
/_B1.0.0.7)9.06.2009	English manual with improved cleaning instruction	
V_A 1.0.0.7 25.09.2008	First official release of EasyWare	