Release notes Emago 6.x

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Contents

Changes in Emago version 6.1

New features

New Support for Kodak 3D and list of Kodak 3D studies.

Improvements

New [6.1.2] Software drivers for VistaEasy from Duerr, version 5.3.0.9759.
New [6.1.2] Updated software drivers for Soredex and Instrumentarium devices, version IAM-SDK 1.3.
New [6.1.1] Added support for Kodak SDK version 1.14.21.0.
New [6.1.1] Added external patient id to image debug information.
New [6.1.1] Now shows patient information in Vistascan device displays (VistaEasy 5.2+).

Fixes

Fix [6.1.5] Toothnumbering system not loaded for USA system.
Fix [6.1.4] Changes in Patient mount tab preferences were not saved when only the order of the active tabs was modified.
Fix [6.1.4] Emago saved a 1kb file in some cases when writing an image caused an error.
Fix [6.1.3] Name of Durr Vistascan job-file now starts with 1 and has the scheme VSJobNNNNN.ini
Fix [6.1.2] Interface with Symplex patient management program.

Changes in Emago version 6.0

New features

New Taskbar for direct access to all the opened images and the Patient mount. Images can be dragged from the taskbar, and several other features are available e.g. minimizing or closing all images at once.
New Citizen id can be included in a patient's record. When the Citizen id is available for a patient, it is also included at print outs and emails.
New Database search dialog window for searching images in the database now can also be used with a Pervasive database. Images can be exported to disk from this dialog window. List view or thumbnail view is now supported.
New Add dental tags to images to categorize the images and make them easier to find.
New Emago can link to I-Dixel 3D software of Morita.
New An image can be scaled by clicking and dragging the lower right corner of the image frame with the mouse.
New Print dialog window is redesigned and combines the Print and Print setup dialog windows from the previous Emago version. Templates can be created for image arrangements to print.
New Patient overview dialog window to view all the patient's images in a list view.
New Preferences dialog window can show multiple tabs for one settings group.
New Delete images dialog window, can be used to delete multiple images of a patient at once.
Improved Context menu commands can be applied to multiple selected images at once in the Patient mount. E.g. open image, email images, or show and modify image properties.
Improved Emago now also supports PNG and GIF images.

User interface

New Database free disk space indicator in the status bar.
New When Emago is opened, the main window is placed on the same monitor where Emago was located when it was closed in the previous session.
New Order of tabs can be changed in the Patient mount.
New Replaced all icons in the toolbar and dialog windows, and reorganized the menu bar.
Improved List view columns can be hidden or showed, and the order of the column can be changed.
Improved When dragging images inside the Patient mount, the drop area on a stamp button is the complete area of the button. Stamp buttons, except Intraoral, have a title bar and an import button.
Improved The image tooltips in the Patient mount include image information next to the thumbnail.
Improved A maximized Patient mount can be restored and dragged when clicking on the title bar of the Patient mount.
Improved Selecting images of a patient that where acquired during a certain time period can be done directly by selecting a period from a dropdown list in the Patient mount.
Improved New drawing engine for annotations and measurements with improved user interaction and a smoother graphical appearance. Improved precision for measurements. Figures that exist of multiple parts can now be moved with the mouse with all parts at once.
Improved Endo measurement shows a dialog window where the file length can be filled in instead of an error message when the file length was not filled in.
Improved Added information in the System information dialog window: database name, database location and internal Emago database version.
Improved Images in full screen mode can be zoomed in or out, several options are added in a toolbar. The zoom percentage of the image and the remarks are displayed with the image information. When the controls are hidden also the mouse cursor is hidden.
Improved Permission group of the user is displayed in the status bar.
Improved When dragging multiple items in the Patient mount the number of dragged images is displayed.
Improved Replaced Sharpen button in the toolbar with a button that includes all image enhancements.
Improved When selecting images in several task windows the amount of selected images are displayed above the list view.

Improved The status of x-ray systems that run in the background are displayed in the status bar.

Productivity & ease of use

New Task dialog windows automatically close when the task is completed.
New A ruler is printed to indicate the print size when the images are printed in true size or scaled.
New Open a stack of images at once in the Patient mount.
Improved Informational and error messages are more clear and descriptive. Error messages inform users that a problem occurred, explain why it happened, and if possible provide a solution so users can fix the problem.
Improved Images can be restored to the raw state or to the pre-calibrated state of the image.
Improved The low and high indicator lines can be adjusted separately with the mouse in the Optimize contrast dialog window.
Improved Email dialog window. Don't need to fill in a recipient when emailing via the active client. An email address can also be selected from the drop down list with the Tab-key.
Improved When a patient is opened from a patient management program and the patient info must be updated, the information is directly updated without a confirmation dialog window.
Improved When Emago is not attached to a patient management program the Return to PMS button in the toolbar opens the Patient management dialog window from Emago.
Improved When multiple images are opened at once the images are organized tiled on the desktop.
Improved When a task dialog window is opened (e.g. email or move dialog window), a click on a stamp button sends the image to the task dialog window. When selecting the 'Open image' command from the context menu, the image is opened and is not sent to the task dialog window.
Improved A patient overview can be printed as thumbnails or as text of multiple patients at once.
Improved Better drag and drop support when importing images from Windows Explorer.
Improved When a patient mount is opened on multiple workstations, changes in the patient mount are synchronized.

Database and system management

New Emago management application to create, manage or update an Emago database.
New User and workstation permissions can be set-up in the Emago manager to manage what users can and can't do in Emago.
New Database action logs and user message logs can be viewed in the Emago manager.
New Emago client updates can be set-up and scheduled in the Emago manager.
Improved SQL support for Pervasive via OLE DB.
Improved Individual patient groups can be set-up to make it possible for each user to have its own group of patients.
Improved Settings which apply to the whole system, e.g. compression, email server settings and database settings are moved from Emago client to the Emago manager.

Other changes

New Emago is converted to Unicode to support representation and handling of text expressed in most of the world's writing systems.
New Link from patient management applications to open a patient in Emago has been updated with several new options and citizen id. Now supports Unicode characters.
New Set pixel size dialog window replaced the Devices dialog window.
New Patient mount template for 2D CT images.
Improved Merged several Emago versions with different database engines into one version. Changes in the setup of Emago can be made in a new Emago management application.
Improved Emago now uses Windows® standard locations for common and user profile related files.
Improved Standardized library filenames.
Improved Multiple levels of logging can be set-up. It's also possible to log actions of one or more users to the database for trouble shooting and support. New tab for database action logs.
Improved External patient id can be manually filled in or automatically generated.

Improved Images that are not available (red cross) can be moved or unmounted in the Patient mount.

Improved Image information includes the workstation where the image was acquired.

Improved Test patterns are now full screen and can be opened from the Preferences dialog window.

Improved In dialog windows where user input is required, and the user didn't fill in this information, error symbols appear to better guide the user and to minimize the amount of error messages.

Improved The test patterns for calibrating the monitor are displayed in all monitors when multiple monitor are used. To be able to calibrate and easily compare monitor adjustments.

Changed Emago no longer disallows saving images in an Emago system folder or any folder ending with '.img' but only checks if images are not saved or loaded from the Emago image database location.

Removed Clipboard link used to open a patient in Emago from patient management application.

Removed It's no longer possible to add an image to a task dialog window by clicking on an opened image. This makes it possible to drag the image to another position on screen.

Removed When the database doesn't exist when starting Emago, the database is no longer created automatically by Emago.

Removed Cascade and Tiled commands are removed from the menu bar due to layout issues.

Removed Windows Calculator is no longer automatically closed when Emago is closed.

Removed Image remarks no longer visible in image title bar.

Fixes

Improved Emago now checks read and write rights on Emago system files at startup.

Improved The System info dialog window can be closed during the counting of the images.

Improved Some dialog windows didn't use the standard system font which caused these windows to appear slightly different than other windows when Clear type fonts where used in the OS.

Improved Print patient overview from the Patient mount also takes into account the selected period in the Patient mount.

Fix In the Move image dialog window the source patient is no longer visible in the destination patient list.

Fix Fixed bug in the registration of the number of simultaneously active workstations.

Fix Crash in the Database search dialog window when an image was opened of a patient that previously had been activated in the Patient mount.

Fix The Video dialog window was sometimes not placed correctly in full screen mode when using multiple monitors.

Fix Could not add images to the Move image dialog window by clicking on a stamp button.

Fix When using Image matching, rotating/mirroring an image sometimes caused the points to be not placed correctly.

Fix The order of the image backup files could potentially be incorrect when deleting the oldest files, which could cause that a newer file would be deleted instead of an older file. Now sorts the filenames so that the order is always right.

Fix When a patient is deleted in the Patient management dialog window which was previously activated, this patient could be reopened with the Restore mount button in the toolbar.

Fix Several small bugs occurred when an image is opened with a different vertical and horizontal pixel size.

Fix When a patient name was changed, the patient name was not updated in the image records which belong to the patient.

Fix Sometimes a part of the ruler indicator lines (black/white dashed line) where visible on an image.

Fix Some graphical bugs with annotations.

Fix Full screen mode was not properly updated when the screen resolution was changed.

Fix Size of Optimize contrast dialog window was not saved.

Fix Emago could crash when a large amount (100+) of images where opened in succession.

Fix When the Twain dialog window was opened but cancelled, the Twain device was still started.

Fix When using multiple monitors, the position of dialog windows where not always properly restored when the position was saved in a previous session.

Fix Could remove items in the Image backup dialog window.

Fix Emago didn't handle writing an image to a folder with no permissions correctly.

Fix Dragging an image in the Patient mount could be disturbed when the Space bar was pressed during the drag operation.

Fix The width of the Histogram was read from the color setting of the Histogram.

Fix Image enhancements were not printed in patient overview print.

Fix Show toolbar settings was not saved.

Fix Update of existing measuring lines when the pixel size was adjusted.

Fix Bug in rotation of thumbnail when image was opened before the thumbnail was loaded in the Patient mount.

Fix When a patient name contains a '/' character, Emago couldn't export images from that patient.

Fix Sometimes another application window came in front of the Emago window when e.g. an image was acquired with an x-ray system or a scanner.

Fix Several minor UI bugs.

Files and directories

Described below are the files and directories used by Emago 6 that are new or were already used in previous Emago versions and have a different filename and / or location.

Windows special folder locations used by Emago refer to the following locations:

<COMMON_APPDATA>	The file system directory that contains application data for all users. Examples: C:\Documents and Settings\All Users\Application Data (WinXP) or C:\ProgramData (Win7)
<LOCAL_APPDATA>	The file system directory that serves as a data repository for local (nonroaming) applications. Examples: C:\Documents and Settings*username*\Local Settings\Application Data (WinXP) or C:\Users*username*\AppData\Local (Win7).

The following tag names refer to the folders Emago uses to store application specific files:

<EMAGODIR>	Install directory of Emago
<EMAGOCONNECTIONFOLDER>	<COMMON_APPDATA>\Oral Diagnostic Systems\Emago*uniquefolder**
<EMAGOCOMMON_APPDATA>	<COMMON_APPDATA>\Oral Diagnostic Systems\Emago*databasename*
<EMAGOLOCAL_APPDATA>	<LOCAL_APPDATA>\Oral Diagnostic Systems\Emago*databasename*

*uniquefolder: Changes when Emago install directory is modified.

New system files in Emago 6

Library files

<EMAGODIR>\bin\Emago.Database.dll	Database library
<EMAGODIR>\bin\Emago.DentalTags.dll	Dental tags library
<EMAGODIR>\bin\Emago.AppLinker.dll	External apps library
<EMAGODIR>\bin\TaskDialogXP.dll	Microsoft® Task Dialog for Windows XP

Settings files

<EMAGOCOMMON_APPDATA>*.ini	Workstation specific setting files
<EMAGOLOCAL_APPDATA>*.ini	User specific setting files

Modified system files / locations in Emago 6

System files

New	<EMAGOCONNECTIONFOLDER>\connection.emg	Database connection information
Old	<EMAGODIR>\oracle.li (Oracle only)	

Library files

New	<EMAGODIR>\bin\Emago.Dicom.dll	Dicom library
Old	<EMAGODIR>\bin\DicomDll.dll	
New	<EMAGODIR>\bin\Emago.Language.dll	Language resource dll
Old	<EMAGODIR>\bin\EmLang.dll	

Settings files

New	<EMAGOCOMMON_APPDATA>\Xray.ini	Xray system settings
Old	<EMAGODIR>\bin\Roentgen.ini	
New	<EMAGOCOMMON_APPDATA>\Emago.ini	Emago settings
Old	<EMAGODIR>\Emago.ini	

Directories

New	<EMAGOCOMMON_APPDATA>\Backup\Xray	Backup of acquired xray images
Old	<EMAGODIR>\bin\xraybck	
New	<EMAGOCOMMON_APPDATA>\Logs	Directory for local log files
Old	<EMAGODIR>\log\	

Deleted system files in Emago 6

<EMAGODIR>\bin\Mount.dll	Mount types library
<EMAGODIR>\gdiplus.dll	No longer needed
<EMAGODIR>\layout.ini	Application state
<EMAGODIR>\Tools\Cleaner.exe	Cleans Emago directory (now implemented in UpdateInstaller).