



PACS Scan

PACS Scan, PACS Scan XDS, PACS Scan Film

Release Notes

DOC-PS6.0-RN-EN-REVB

Documentation Notice

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Regulatory and compliance



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General warnings and precautions



To ensure patient safety and adhere to HIPAA Privacy Rule involving patient health information, the Healthcare provider shall assign an unique Accession Number and Medical Record Number (MRN) to identify individual patient's health record affiliated with the patient to prevent erroneous medical data and duplicate identification with other patients.

Symbols glossary



3082 - Manufacturer



2497 - Date of Manufacture



2493 - Catalog number



2498 - Serial number



1641 - Consult instructions for use: Indicates the need for the user to consult the instructions for use.



0434A - Caution: Indicates the need for the user to consult the instructions for use for important information such as warnings and cautions.



2610 - Patient number: Indicates a unique number associated with an individual patient.



Quantity: Indicates the number of units.



Directive 2012/19/EU on waste electrical and electronic equipment (WEEE).

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PACS Scan 6.0.0 (August 2023)

This release includes the following enhancements and updates.

Enhancements

- Updated to 64bit architecture and libraries.
- Date Of Birth may now be used as any additional query parameter for worklist and archive queries.
- Improvements for digital security.
- Other minor improvements.

Updates

- Resolved an unhandled exception when viewing CD images.
- Resolved an issue with importing and sending MG CD images to PowerShare servers.
- Resolved an issue with importing Presentation States from CD files.
- Resolved an issue with IntelliSpace plugin where series description was not being applied to the description field automatically.
- Resolved an unhandled exception error occurs on custom Fields Settings configuration under CD Import.
- Resolved an issue where scanned documents, sent as PDFs, would be blank.
- Resolved an issue with compressing SR studies.
- Resolved an issue with trigger lookup settings not working as expected.

Considerations

PACS Scan Video, Scope Cap, and Pacs Scan + Dictation features have been deprecated in PACS Scan 6.0.

PACS Scan 5.3.3 (October 2018)

This release includes the following enhancements and updates.

Enhancements

- Numerous small changes to XDS submissions.

Updates

- Resolved an issue when cropping scanned images would result in an error on send.

PACS Scan 5.3.2 (April 2018)

This release includes the following enhancements and updates.

Enhancements

- Added ATNA functionality for XDS submissions.
- You can now overwrite the MIME type when sending to XDS.
- Added a configurable referenced ID list root.
- PACS Scan now sets the acquisition date and time of captured videos to the current system date and time.
- Added option to prevent importing of H.265 videos.

Updates

- Resolved an issue with the study acquisition date and time.
- Updated XDS TLS calls to TLS 1.2.
- Resolved issues with XDS submissions to OnBase destinations.
- PACS Scan now displays detailed (non-generic) error messages upon send failures.
- Resolved issues related to sending and previewing GIF images.

PACS Scan 5.3.1 (November 2017)

This release includes the following enhancements and updates.

Enhancements

- You can now log in to PACS Scan by using LDAP user groups.
- You can now overlay images with patient demographics.
- XDS functionality in PACS Scan is now compatible with Hyland OnBase.

Updates

- Resolved an issue in which the Last Patient Button also populated the previous accession number.
- Images submitted to XDS now be compressed in JPEG format.

PACS Scan 5.3.0 (March 2017)

This release includes the following enhancements and updates.

Enhancements

- You can now perform a PDQ by namespace.
- You can now add the PDQ type to the affinity ID in the XDS settings.
- Users can now stream data to XDS repositories to avoid transmission limits.

Updates

- PACS Scan now sends @PID.3.4.1 with the PDQ and populates it with a PDQ namespace.
- When the user selects a patient record from a set of PDQ results, PACS Scan now populates the XDS Enter Patient Information dialog box with the affinity ID of that record.
- Resolved an issue with PDQ results containing multiple affinity domains.
- Resolved an issue in which a PDQ by MRN was unsuccessful when using both namespace and affinity ID.
- You can now enter an Accession/Ref ID in the XDS Enter Patient Information dialog box. PACS Scan uses this value to populate “referenceldList ID Slot” in the submitted XDS document.
- You can now enter a patient account number in the XDS Enter Patient Information dialog box. PACS Scan uses this value to populate the “PID-18” field in the submitted XDS document.
- Resolved an issue with relative image paths when printing to XDS.
- Resolved an issue in which an extra tilde (~) appeared after the domain in a PDQ.
- Resolved multiple installer issues.
- Resolved issue regarding sending of edited images.
- Removed the medical connections XDS submission code.
- Moved the PIX/PDQ functionality to the LexXDS library.
- Added support for .gif, .mpeg, and .avi media files.

PACS Scan 5.2.1 (April 2016)

This release includes the following updates.

Updates

- Resolved an issue in which an error occurred when using the iSite 4.4 plugin and Internet Explorer 11. (2964)
- The tab key now correctly changes the active field in the Enter Patient Information dialog box. (2971)
- Resolved an issue in which the user could not scroll the job queue if it exceeded a certain number of entries. (2943)
- Resolved an issue in which CD import failed for ultrasound and mammography images due to non-compatible compression syntax. (2907)
- Resolved an issue in which PACS Scan could not parse study descriptions in HL7 messages. (2973)
- Button configuration now works correctly when using a Video + XDS license. (2902)

PACS Scan 5.2.0 (June 2015)

This release includes the following enhancements and updates.

Enhancements

- With a ModLink Forms license, you can now select a dictation system of ModLink or Nuance 360.
- You can now verify dictation system login credentials in the Form Settings dialog box.
- You can now turn the store and save options for form fields on or off.
- With video switches, you can now use button 1 to start and stop video capture and button 2 to capture still images (or joystick buttons 1 and 2).

- A new combined license is available for XDS and video capture.
- PACS Scan XDS now supports MPEG 2 and MPEG 4 video capture, and sending of MPEG 4 videos to repositories.
- PACS Scan XDS now supports locally generated security certificates.
- PACS Scan now supports versions 2 and 3 of PIX/PDQ.

Updates

- Resolved an issue in which images imported from CD appear washed out after sending to Fuji PACS.
- Resolved an issue in which worklist queries based on last name or MRN failed for older worklist entries.
- Resolved an issue in which PIE settings are deleted after an upgrade
- Resolved an issue in which the prefix setting for CD import did not carry over to subsequent applications that accessed the study. Previously, this setting was not applied to all send modes.
- Resolved an issue in which the first page of an imported PDF was missing data
- Resolved an issue with some film types in which autosegmentation fails and manual segmentation is unavailable.
- Resolved an issue in which CD import might not work properly, depending on the structure of the DICOMDIR.
- Resolved an issue in which JPEG lossy-compressed images appeared with incorrect colors.
- PACS Scan now prompts users to select a storage destination when sending, if one is not already configured.
- Resolved an issue in which the CD import screen might not appear correctly, depending on Windows magnification settings.
- Resolved an issue in which PACS Scan did not send scanned documents to multiple studies.

PACS Scan 5.1.1 (October 2014)

This release includes the following updates.

Updates

- Resolved an issue in which, on some machines, PACS Scan could not send a document or JPEG image to an XDS repository.
- Enhanced error reporting when using ModLink Forms with dictation systems.
- Resolved an issue with audio when capturing MPEG 4 video with PACS Scan Video.
- When you launch PACS Scan from the command line, you can now edit the study/series description field after clicking the Edit button.
- PACS Scan 5.1.1 now supports Windows 8.1 when you log in as an administrator.

PACS Scan 5.1.0 (April 2014)

This release includes the following enhancements and updates.

Enhancements

- With a ModLink Forms license you can integrate forms with dictation systems; you can QC modality measurement values or send values directly to the dictation system.
- PacsSCAN is now FIPS compliant for encrypted passwords.
- The “Burned in Annotation” DICOM tag () of DICOM images in PDF format that you import and send from PacsSCAN are now set to “YES.”
- You can now configure Lexmark Image Exchange to retain auto-forwarded studies in the Inbox.
- You can now auto-delete the “Issuer of Patient ID” DICOM tag.
- With an XDS license, PacsSCAN now supports patient lookup using the HL7 Version 2 or HL7 Version 3 IHE PDQ (Patient Demographic Query) standard.
- With an XDS license, PacsSCAN can now resolve a local patient ID with a global patient ID using the IHE PIX (Patient Identifier Cross-Reference) standard before sending documents to the specified XDS repository.
- With an XDS license, you can now define a destination as an XDS repository and enable PDQ lookups, or PIX patient ID resolution.

Updates

- The study date column of the patient query results list now sorts correctly.
- The preview window now displays properly when using a DataPath video capture card.
- Improved memory management during CD Import.
- Resolved an issue in which some CD import settings were missing after an upgrade.
- Resolved an issue in which PacsSCAN did not retain the login name of the current user in a DICOM tag when sending images to a PACS.
- Resolved an issue in which an invalid PDU prevented sending of scanned documents and films to Merge.
- Resolved an issue with printing multiple jobs of a varying and multiple number of pages.
- Added proper handling of damaged settings files (mainsettings.xml and formsettings.xml).
- Restored the default series description workflow.
- Resolved an issue in which PacsSCAN opened in the minimized state.
- Fixed an out-of-memory error occurring when you import an image from a camera while running PacsSCAN through Epic.
- Added information to a message that appears when you attempt to install PacsSCAN on a port that is already in use.

PACS Scan 5.0.1 (June 2013)

This release includes the following updates.

Updates

- Resolved an issue in which a watermark appeared erroneously in imported PDF files.
- Fixed an issue in which PacsSCAN installations or upgrades were slow or suspended due to MediaWriter-related file permission issues.
- Resolved an issue in which an out of memory message appeared when trying to import DICOM Structured Reports from disks.
- The Import function now supports PDF documents.

PACS Scan 5.0.0 (April 2013)

This release includes the following enhancements and updates.

Enhancements

- You can now download encrypted studies using the Lexmark Image Exchange, and configure PacsSCAN to automatically send the downloaded studies to PACS.
- With an XDS license, you can now submit scanned documents, virtually printed images, and imported JPEGs or PDFs to an XDS repository.
- With a ScopeCap license, you can now capture and send still images from non-DICOM scopes, cameras, and other video devices to PACS/EHR.
- PacsSCAN can now display up to four function buttons in addition to the Send button. Depending on the license, the available function buttons can include Paper, Import, Form, CD Import, Film, Video, and Exchange.
- You can now import and send PDF files, and configure each AE title to use DICOM Encapsulated PDF or DICOM Secondary Capture when sending PDF files.
- You can now convert and send scanned or Print2PACS documents as DICOM encapsulated PDFs.
- You can now add and prioritize multiple Active Directory servers for use by PacsSCAN.
- PacsSCAN now supports multiple worklists that support either DICOM Modality Worklist or the DICOM Archive Q/R Protocol. You can select the lookup source when importing from CDs.
- PacsSCAN now supports both lossy or lossless JPEG image compression.
- PacsSCAN now includes an auto-logout feature.
- PacsSCAN can now automatically add prefixes to MRN or accession numbers during batch importing from CDs.
- When user authentication is ON, the login name of the current user is included through DICOM tag with images sent to PACS.
- You can now configure PacsSCAN to play a .wav audio file when a user presses the ScopeCAP capture button.
- PacsSCAN Film now supports the VIDAR DiagnosticPRO® Edge film digitizer for Windows XP/7.
- PacsSCAN is now available in these languages: Chinese (Simplified), Danish, Dutch, French, German, Greek, Italian, Japanese, Norwegian, Portuguese (Brazil), Spanish, and Swedish.
- PacsSCAN uses the time and date formats specified in the Windows regional settings regardless of the language setting of the user interface.

Updates

- The CD Import feature now includes the options to not import structured reports and not import presentation states.
- The CD Import feature now consistently recognizes the date range settings of Worklist entries.
- For DICOM Worklists, you can configure a future date range to determine whether PacsSCAN displays post-dated items in lookup results.
- PacsSCAN now supports 64-character custom fields.
- PacsSCAN now launches in the same window size as the previous session.
- PacsSCAN now minimizes after a send job.
- Resolved an issue in which an error occurs when rotating 2 or more scanned images.
- Resolved an issue in which rotating and cropping a scanned image sometimes produces a smaller or all white image.
- PacsSCAN now validates incoming Print2PACS data to ensure that two jobs are not combined into one patient.
- Resolved an issue in which the Last Patient button became unavailable when sending more than one print job to PacsSCAN.
- PacsSCAN now shows as selected the most recent accession number when performing a patient lookup.
- During CD Import, the image count now accurately displays up to four significant digits, or a count of up to 9999 images.
- The Study Date now always includes the day of the week.
- DICOM destinations now correctly display wrapped text input from PacsSCAN forms.
- The Defaults dialog box now includes an option to require the patient name, MRN, or accession number for lookup.
- The Defaults dialog box now includes an option to require the user to enter a description before sending.
- When you assign a default value to the Description field, PacsSCAN now displays the value next to the Default button.
- Resolved an issue in which PacsSCAN did not populate the Study Description box correctly when the alternate DICOM tag was inside a sequence tag.
- When you set the study description to fill from the worklist, if you define a default set of descriptions, the default series description now appears correctly.
- Patient name fields in the lookup screen are now larger to avoid truncation. If the name is too long for the field, you can scroll to view the full name.
- The Last Patient button now correctly recalls the previous patient when clicked after a Print2PACS job.
- You can now select a character set that supports diacritical marks. The list of available character sets is configurable.

PACS Scan 4.x.x (July 2012)

This release includes the following enhancements and updates.

Enhancements

- PacsSCAN and the PacsSCAN virtual printer now support Windows 7.
- PacsSCAN Video now supports DICOM ultrasound multi-frame, as well as secondary capture color and grayscale multi-frame classes for captured video clips.
- PacsSCAN now supports the following DICOM tags for all scanned documents, digitized film, and imported visible light images: () SeriesDate, () SeriesTime, () ContentDate, () ContentTime.
- If your PACS does not support compressed JPEG, JPEG2000 or RLE DICOM studies, the DICOM CD/DVD import feature now automatically decompresses them before sending.
- Print2PACS is now included as an optionally installed feature with PacsSCAN.
- You can now set a separate AE calling title for DICOM CD/DVD import jobs.
- Editing controls are now available for imported AVI/MPEG files. These files can now also be exported as DICOM Secondary Capture Multiframe studies.
- You can now configure PacsSCAN to prompt you for a network/drive location prior to importing DICOM CDs/DVDs.
- Drag-and-drop functionality is now available to import JPEG/AVI/MPEG images.
- With PacsSCAN Film, you can now zoom in to read scanned demographics and improve alignment. You can also manually segment any film.
- PacsSCAN Film now supports the VIDAR SIERRA Advantage digitizer.
- PacsSCAN Video now supports video capture from angiography and fluoroscopy sources.
- You can now specify multiple worklists and other sources for querying during a patient lookup.
- You can now specify DICOM devices by host name or IP address.
- You can now annotate images acquired from TWAIN-based camera sources.
- PacsSCAN now adds the DICOM acquisition date and time to each image.
- PacsSCAN can now import DICOM JPEG Baseline images.
- PacsSCAN now preserves private DICOM tags during DICOM CD/DVD import.
- You can now add customized DICOM CD/DVD import fields with hexadecimal values.
- You can now select multiple forms.
- PacsSCAN now supports document scanning resolutions of 400 and 600 DPI.
- PacsSCAN Film and PacsSCAN Film for Mammography now support the VIDAR CAD PRO Advantage digitizer.
- Included with PacsSCAN Film for Mammography as part of the DICOM View Modifier sequence, you can now modify mammography view labels (MLO, LCC, and others) with labels such as "Compressed", and "Implant Displaced."
- With PacsSCAN Film, you can now add a DICOM pixel spacing field for digitized films.
- With PacsSCAN Film, you can now use a dynamic contrast algorithm (DCA) option to render analog mammography film scans with a digital "look and feel."
- With PacsSCAN Film and PacsSCAN Film for Mammography, you can now automatically match scanned film spot size to FFDM spot size.
- For mammography priors, PacsSCAN can now add the DICOM View Position tag to support additional mammography hanging protocols.

- For mammography priors, PacsSCAN now always sends the DICOM Body Part as “BREAST” to support additional mammography hanging protocols.
- PacsSCAN Video now supports DICOM secondary capture color and grayscale multi-frame classes for captured video clips.
- PacsSCAN Video now supports JPEG2000 compression for secondary capture multi-frame video clips.

Updates

- Improved scrolling through the send queue.
- Discontinued support for Windows 2000.
- Improved user interface when lookup results exceed 200.
- Resolved an issue with segmentation by only applying spot sizes to MG images when FFDM is set to 100.
- Removed a duplicate listing of PacsSCAN in Control Panel after an upgrade.
- Restored the slash in the XML file name created during JPEG export.
- Resolved an issue in which some images were distorted when sent to multiple accession numbers.
- Resolved issues affecting upgrades from PacsSCAN 3.1.
- Resolved an issue in which files from CDs/DVDs imported in Batch mode would not send to multiple destinations with aliases.
- For source queries, PacsSCAN now populates the DICOM Study ID field when available.
- PacsSCAN Film now supports the DICOM measurement tag, Image Pixel Spacing.
- Resolved an issue in which products upgraded with the PacsSCAN Film + MediaImport license did not correctly import DICOM CDs/DVDs.
- For scanned documents, you can now set the capture type for the DICOM Image Type tag to “Primary” rather than “Secondary,” which is necessary for some GE mammography workstations.
- The Institution Field character limit is now 64 characters.
- PacsSCAN Film now supports VIDAR film digitizers with Windows 7.
- Resolved an issue in which PacsSCAN did not scan A4-sized documents correctly.
- You can now modify the Study Description field using the PacsSCAN virtual printer(Print2PACS).

PACS Scan 1.x.x through 3.x.x (June 2010)

This release includes the following features and updates.

Features

- The electronic form feature is now available in PacsSCAN Film and PacsSCAN Film for Mammography.
- PacsSCAN now supports patient lookup by first or last name during CD import.
- After DICOM CD/DVD import operations, the user interface now remains in the foreground.
- PacsSCAN Film now assigns the last successful layout grid to manually segmented films.
- Increased the DICOM institution name from 16 to 64 characters.
- A scroll bar now appears when the status list fills the page.
- PacsSCAN now imports large JPEG files.

Updates

- Resolved an issue that occurred when combining rounding with multiplying by 100 for DICOM value formatting.
- Resolved an issue in which the CD import configuration screen was too tall for some monitors.
- Resolved an issue that occurred when importing DICOM CDs/DVDs without configuring a lookup destination.
- Resolved an issue in which PacsSCAN did not completely write the configuration file.
- Resolved an issue in which PacsSCAN sometimes sent multiple copies of batch-scanned documents to PACS.
- Resolved an issue in which PacsSCAN Film incorrectly oriented segmented films.
- Corrected a defect caused by Microsoft Security Update MS09-062 (Vulnerabilities in GDI+ Could Allow Remote Code Execution). See <http://support.microsoft.com/kb/958869/> for details.
- Resolved an issue that occurred when sending a digitized mammography film and a scanned document for the same study.
- PacsSCAN Film now correctly saves changes in the advanced DICOM print settings.
- Resolved an issue that occurred when closing the capture window during video capture.
- The virtual print feature (Print2PACS) now works correctly with PacsSCAN Film.
- Items on the send queue now scroll properly when the list is full.
- When a PACS or EMR/EHR launches PacsSCAN via the API, PacsSCAN now correctly minimizes when you click the Send button.
- Improved international date support.
- Configuring input fields now works consistently for batch document scanning.