Intellispace 4.4.553 Release Notables and Fixes

The following are highlights from version 4.4.552 to our current version. Refer to "IntelliSpace PACS 4.4 with iSyntax Release Notes.pdf", "CRN_4.4.552.10.pdf" and "CRN 4.4.551.0_4522 170 25461_ISPACS 4.4 Release Notes.pdf" for the entire release notes.

Windows 10 Compatibility (v. 4.4.552 and higher)

IntelliSpace PACS Radiology in 64 Bit (v. 4.4.552 and higher)
IntelliSpace PACS Radiology is available only in 64 Bit and is no longer available in 32 Bit.
IntelliSpace PACS Radiology can be installed only on 64 Bit Operating Systems.

Compatible Citrix Server Version(v. 4.4.552 and higher)
The compatible Citrix Server version is XenApp 7.6 running in Windows 2012 Standard Server R2.

4.4.553 Features

Projections of Measurements and Annotations from 3D to 2D
In IntelliSpace PACS Radiology, the Measurements and Annotations drawn on the Tomo images will be projected automatically in the corresponding C view images for diagnostic purposes.

Defining Mammo Tomo Variable Slab Thickness
The user can define the slab thickness of the Mammo Tomo slabs in the User Preference-->Display Preferences--> Tomo Slab View--> Default Thickness: Frames. Based on this value, when the user scrolls through the slices, the slabs will be displayed in a overlapped manner. For example if the value is set to 4 Frames, then the display of the slabs will be as follows:
• Slab 1: 1-4 Frames
• Slab 2: 2-5 Frames
• Slab 3: 3-6 Frames

Background Suppression for Inverted Images
Background Suppression for Inverted images can also be applied for MG Breast Tomosynthesis images.

Ability to View Windows Applications on the Diagnostic Monitors
In the User Preferences, there is a new option for Diagnostic Monitors, **always on top**. When this option is selected, the diagnostic monitors will be reserved for displaying only patient images. Any other application displayed on the diagnostic monitors will be hidden by the diagnostic monitors when IntelliSpace PACS Radiology is selected.
When the Diagnostic Monitors, always on top option is not selected, the **diagnostic monitors can be used for other applications** until a study is opened. User can switch between these options at any time and re-login for the selected option to take effect.

Searching for Exams Using "All"
When searching for Exams by Date using the Exam Lookup, User Filter and System Filter windows: For Example:
• Select Exam Lookup from the Folder List (or the Shortcut Bar if you have created a shortcut for this feature).

• In the Exam Date/Time column or in the Scheduled Date/Time column. you can either select a time/date range from the list or select All to display all the exams.

Patient Banner Expands Automatically

The patient information area will automatically expand based on the patient's data size. The user can view five lines of the patient's data at a time without scrolling. Beyond five lines of data, a scroll bar will appear to assist in viewing the data.

Highlighting the Pop-ups in the Timeline

When pop-ups are opened, the user can identify to which exam a pop-up belongs to.

• Mouse over a pop-up.

• The exam to which the pop-up belongs to is highlighted in the Relevant Exams and in the Patient History time line.

• When multiple pop-ups are open, hovering over the pop-up highlights that images exam icon on the timeline.

Show/Hide Pop-up Windows

This section will guide you to manage the display of the image pop-up windows.

Show Pop-ups of this exam

When multiple pop-ups of different exams are open, the Show Pop-up of this exam option allows users to view only the pop-ups associated with the selected exam.

1. From the Patient History Timeline, right click on the exam icon of the exam whose pop-ups alone you wish to view.

2. Select Show pop-ups of this exam in the resulting context menu. The selected exam's pop-ups will be retained for viewing and all the other pop-ups will be hidden.

Show Pop-ups of All Exams

To again view the hidden pop-ups of other exams:

1. Right-click on the exam(s) whose pop-ups are currently being viewed or hidden.

2. Select Show pop-ups of all exams.

All the pop-ups that were hidden can be viewed again.

NOTICE: The menu "Show pop-ups of this exam" will be available only for the exam(s) with pop-ups already opened.

Managing Series Linking and Unlinking

NOTICE: An option to manually manage links allows users to manually choose series linking options.

These new series linking features are in addition to the existing series linking features. In this new feature users will be allowed to link series of different orientations.

1. Right-click on the desired image or series and select New Link from the menu. This engages linking and the image is marked with a link identifier. The link identifier helps you to identify the joined links The link identifier count starts with "0".

The Link Identifier is also available in the diagnostic monitor.

2. To add more images to the link created in the step above, select the image(s) of any orientation, right-click and choose:

• Join Link

• Select the required link to join from the submenu.

NOTICE: The menu " Join Link Mirror" will be also be available for Tomo and Mammo images.

3. To select multiple images or series from different exams, press the Shift key while selecting images or series. Right-click and select Link Selected Images from the menu.

4. If more than one series in the same exam has the same orientation and the same reference, you can link them all simultaneously by selecting the Link All Axial, Link All Sagittal, Link All Coronal, or Link All Oblique, depending on the orientation.
5. You can choose to Unlink All, Leave Link and Deactivate all Links by right clicking on the linked images

Splitting Series
The Split Series feature is an extension of the split exam feature. It allows users to manually split individual series within in an exam instead of all the series in an exam.
NOTICE: The split series will retain the measurements, annotations, image processing settings and sort order of the original series.
1. Right-click on the image and from the menu, select Flip/Rotate/Sort/Split.
To select multiple series to be split, press the SHIFT key while selecting and then right-click.
NOTICE: Multiple series across exams cannot be split. The "Split Series" option will be disabled on selecting multiple series across exams.
2. Choose Split Series from the sub-menu. The Split Series dialog box displays.
3. Select the DICOM tags that you wish to use for splitting the series.
4. Click OK. The original series is broken into different series, according to the selected split criteria. This is not a permanent change to the exam, but rather a type of display. To preserve the split for later viewing, you must save a Presentation State.
NOTICE: The Split Series follows the same rules as the Split Exams feature.

Ability to Configure Full Monitor Layout
The monitors above 5 MP landscape orientation can be split by selecting the Divide high resolution monitors check box in the Preference--> Machine Preference--> Display Monitors.
This option will be available only for monitors above 5 MP.
NOTICE: If the "Divide high resolution monitors" check box is not selected, then the high resolution monitors beyond 5 MP will not be split and will remain as single monitor.
NOTICE: Display adapters, monitor configurations, etc. may affect how this option work. For example, you use a 12MP DX monitor with dual input and you are using both inputs, this feature will not work.

Setting Measurement Units : Linear/ROI
This feature allows the user (administrators) to either set the Measurement Unit for Linear/ROI in the System Preference, or allow the users to set their own Measurement Unit for Linear/ROI measurements.
System Preference Settings
• From the Preference--> System Preference--> Measurements do one of the following:
    – Select Set for all users option to set a measurement unit for the users. Select the measurement unit from the options provided below.
    – Unselect Set for all users option to allow the users to select their desired measurement unit.
NOTICE: If the Set for all users option is selected, then the Measurements options in the User Preference will be greyed out and the users will not be able to select the measurement units. If the Set for all users option is not selected then the Measurements options in the User Preference will be available for the user's selection.
User Preference Settings
1. Open the Preference window and navigate to User Preference--> Measurements.
2. Select a Measurement Unit : Linear/ROI to be displayed.
    • If centimeter (cm/cm^2) is selected, Linear measurement will be displayed in centimeter and ROI circle, ROI Ellipse, & ROI Freehand shall be displayed in centimeter^2.

- If millimeter (mm/mm^2) is selected, Linear measurement will be displayed in millimeter and ROI circle, ROI Ellipse, & ROI Freehand shall be displayed in millimeter^2.
- If combination of centimeter and millimeter (mm/cm^2) is selected, then Linear measurement will be displayed in millimeter. ROI Circle, ROI Ellipse & ROI Freehand shall be displayed in centimeter^2.

NOTICE: IntelliSpace PACS 4.4 relies directly on the information provided by the manufacturers of the imaging modalities in order to perform any measurements. The accuracy of these measurements is determined by the values and interpretations of related fields within the DICOM imaging standard.

Displaying Minimum and Maximum Values of ROI
The choice of viewing the Min and Max values of the ROI can be set from the User Preference.
To view Min and Max values of the ROI follow these steps:
• From the Preference window navigate to User Preference--> Measurements.
• Select a ROI Measurement Values to be displayed.
NOTICE: Min and Max values will be in Hounsfield units for CT images and in pixels for other modalities.

Moving ROI (Circle, Ellipse, Freehand) Measurements Values
The measurement values can be detached from the ROI Circle, ROI Ellipse and ROI Freehand and moved to another part of the screen. The measurement and their values can be identified by the letters as follows
• Circle: C1, C2, C3
• Freehand: F1, F2, F3
• Ellipse: E1, E2, E3
The letters are preserved in the presentation state.

Drawing a Linear Measurement inside a Circle Annotation
A linear measurement can be drawn inside a Circle Annotation

Drawing Circle Annotations at the Edge of the Image Area
A Circle Annotation (Semi circle) can be drawn at the edge of the Image area:

Importing and Exporting Hanging Protocols
Multiple Hanging Protocols can be exported and imported.
NOTICE: Use windows multi-select functionality like ctrl+ click and Shift + click to select multiple hanging protocols.

Image Overlay Font Size Resizes Automatically
The image overlay font size automatically resizes according to the monitor resolution and screen layout. This makes the information readable for the user. The minimum font size the screen overlay can be resized is 14 pt. The font size will be calculated based on the monitor resolution and the resizing of the font will depend on the monitor resolution.

Side By Side Installation - IntelliSpace PACS Radiology 4.4
Side By Side installation allows you to install two versions of IntelliSpace PACS Radiology on the same machine. The base version should be IntelliSpace PACS Radiology 4.4.553.0 and another version can be any earlier version of 553.0 for example, 552.0.
This section will guide you to perform the Side-by-Side installation of the IntelliSpace PACS Radiology application.

NOTICE: In the machines where Side By Side Installation is present, the isite.ini file can be located only in the following path: **`<drive>\Program Files\Philips\Intellispace PACS Radiology\.`** Right clicking on the IntelliSpace PACS Radiology desktop icon in the machines with Side By Side installation will take you to **`%CommonProgramFiles%\Philips\ISPACSClientLauncher`** folder path.

Prerequisites

Any IntelliSpace PACS Radiology version lower to IntelliSpace PACS Radiology 4.4.553.0 should be installed prior to installing IntelliSpace PACS Radiology 4.4.553.0 application. You cannot login to two different IntelliSpace PACS Radiology at the same time.

NOTICE: Once Side By Side installation is successfully performed, the Machine Preferences of the earlier version will be automatically mirrored to the 553.0 version in the same Machine preferences location.

64-bit IntelliSpace PACS Radiology in Containment mode using the Internet Explorer
Pre-requisites for running the 64-bit IntelliSpace PACS Radiology in containment mode using the Internet Explorer (When hosted in IIS):
Please reference the IntelliSpace PACS 4.4 with iSyntax Release Notes.pdf for configuration of this feature.

4.4.552 Features

Shortcut menu in the context menu
The keyboard shortcuts configured in the User Preference will be displayed in the context menu.

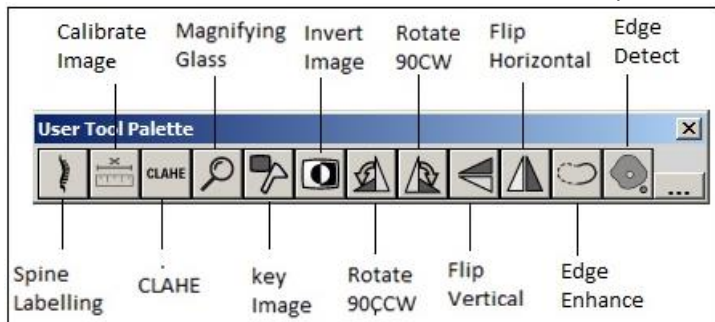**Display of Measurement values**
The measurement text was made visible irrespective of the background color of the image by making it transparent. Measurement Value label was moved from end point to the Start point.

Pin Prior Exam
A "Pin Prior Exam" icon will be displayed in the Exam Margin of the Pin Prior images. A tooltip Pin Prior Exam will be displayed when you move the mouse over the icon. As shown in the image below.

User Defined Tool Palette
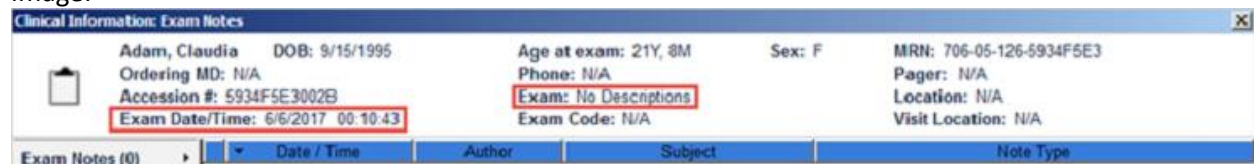Additional Tools are added in the user defined tool palette. As shown in the image below.

Following are the list of the new tools:
• Invert
• Flip Horizontal
• Flip Vertical

• Rotate 90 CW
• Rotate 90 CCW
• Spine Label
• CLAHE
• Key Image
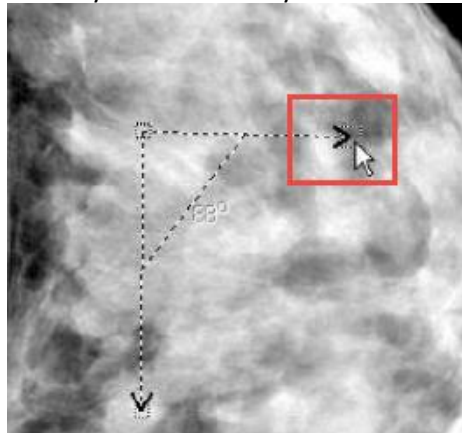• Magnifying glass
• Calibrate Image
• Edge Detect
• Edge Enhance

Exam Date/Time in Report Header
Exam Date/Time and Exam Code Description are displayed on the report header. As shown in the below image:

Arrow Head
Size of the arrow head to increase as the user formats the shape to increase the weight of the line so that both the line weight and arrow head are proportional. Arrow head shape is changed for better visibility to the anatomy. As shown in the image below:

Setting View Older Study Warning
The "View Older Study Warning" option lets you to set a time period beyond which a warning message will be displayed when a study older than the set day(s) is being opened as the current study in the Canvas page.
To configure the View Older Study Warning refer to CREF4.09-292 IntelliSpace PACS Radiology 4.4 User Guide.

JPEG-type compression
In IntelliSpace PACS Radiology, the JPEG compression indicator (icon) will not be seen on the rack thumbnail window for the JPEG compressed images. But, the indicator will be seen on diagnostic monitor window.

IntelliSpace PACS lossy compression

In IntelliSpace PACS Radiology, the Lossy compression indicator (icon) will not be seen on the rack thumbnail window for the Lossy compressed images. But, the indicator will be seen on diagnostic monitor window.

Main or Prior Indication
To identify if a exam is a main or prior exam, an indicator is added in the exams to indicate if the hung series belongs to the main exam or prior exam. This indicator is configurable by adding "main or prior indicator" option into the screen overlay.

Autoscaling
When a series of images belonging to the same patient is hung on the diagnostic monitor, the images might display in different sizes applying Breast fit to window. In such instances, the images hung on the diagnostic monitor can be scaled to same size by:
► Invoke Context Menu on the diagnostic monitor and select "Scale Images to the same size".
► Keyboard shortcut set to "Scale Hanging Images to Same Size".
► Select "Automatic scaling" in System Preferences.

Printing to Paper
Select Mark as Confidential to print header and footer. This option will be enabled only if the Confidential Data Header and Confidential Data Footer is configured in the Paper Printing preference under System Preferences.

Manual Hanging
There are two ways to manually hang images:
1. By manually selecting images from the rack or by selecting images on the diagnostic monitor. This can be done either by replacing the images or by swapping the images. Use the keys mentioned below to manually hang the images.
To Keys
• Swap Left Click (Bottom of the Image).
• Swap D + Left Click (Anywhere on the image).
• Replace Shift + Left Click (Bottom of the image).
• Replace Shift + D + Left Click (Anywhere on the image)
2. By selecting images from manual hanging panel.

Compare Selected Prior Exams With Main Exams
When using a hanging protocol sequence that displays images of the main exam and a prior exam, you can compare the selected prior exam (for example, prior 2exam) with main exam by pinning a selected prior exam in the HP sequence.

Setting Presentation State (PS)
You can specify the preferences for displaying various options from a Presentation State when applied.

FIXES
4.4.553
0108324500 In the IFU the section "Setting Image Processing Preferences" is updated with the required information.

0108756902 The section in the IFU is updated with the required information: Filtering Worklists > Rearranging Worklist Columns > Rearranging a Filter's.

0108711271 The issue of image loading been displayed while exporting a study with the Philips Proprietary format is resolved.

0108810811 Studies containing JPEG images while migrating from 3.6 to 4.4 no longer hangs the application indefinitely.

0108812748, 0108733623, 0108733748, 0108733652 The Zoom state of the images now gets saved when the series are swapped back.

0109241416 The localized strings are now displayed correctly in German language.

0108182254 Scrolling no longer freezes, users can scroll on canvas page without any freezes.

0108758209 System Filter Shortcut Error message is no longer displayed and the tab now reflects the selected folder.

0108758227 Radiology client no longer crashes when F4 key is used on a folder under My Filters or System Filters.

0104540030 Local Export no longer hangs the client when exporting certain studies with SR on remote location.

0108028153 When using Query() with exam description and search term preceded by a wildcard, method now returns result where the term is found.

0108420770 Merge of patients by HL7 is now added to the audit Data Base.

0108042123 The issue, Study datetime in the error worklist display time in the future, is resolved and now displays the correct time.

0105592763, 0104590822, 0105252760 The Entire Active X IntelliSpace PACS Enterprise and IntelliSpace PACS Radiology Instructions for Use is modified to make it compatible with the current IntelliSpace PACS Client API SDK.

0106923102 The issue of displaying artifacts in IntelliSpacs PACS Radiology with enhanced Mammography enabled is resolved and images now displays without artifacts.

0109455054 Both IntelliSpace PACS Enterprise_User Guide.pdf and IntelliSpace PACS Radiology_User Guide.pdf is updated with the correct information.

0103437753, 0104241710 The instructions for openfire configuration to use SSL with CA certificates is updated with the resolution notes as per the resolution template.

0107135902 IntelliSpace PACS client no longer crashes when using instant protocoling feature.

0109386950 Valid DICOM now processes the first time and only the defective DICOM goes to the errors folder.

0108717934, 0107020066 The issue of multiple timeline entries displayed for the same exam is resolved and displays only once on the timeline.

0105943684 Link candidates now no longer shows already linked patients.

0108765779 Exam report icon is now displayed when Cached exam is open on IntelliSpace PACS Enterprise.

0108242516 The issue of System filters edits intermittently not getting updated when logged in with is resolved and simultaneously logged in user can edit using their respective clients.

0109407742 Artifacts are no longer observed and radiologists are now able to window level.

0109322844 The issue of exam sorting with the dates is resolved.

0106000880 API call now can be used to export GSPS DICOM instance.

0107692197 Philips IU22 Multi frame, MF (SOP Class 1.2.840.10008.5.1.4.1.1.3.1) Contrast series displays on 4.4.532.11 IntelliSpace PACS. PACS possible memory consolidation limitation.

0108706272 The issue of RF DICOM cannot be processed by the Stentor iSyntaxServer is resolved after the RGB Photometric Interpretation images support is implemented for RF images on iSite.

0108491866 In DMWL, the update of the Ordering via HL7 messaging now no longer results in duplicate orders and displays a single order.

0109452478 The issue on IntelliSpace PACS version 4.4.551.0, the IntelliSpacs PACS Eenterprise clientweb page or SUBI are accessed from a windows 10 machine, the IntelliSpacs PACS Eenterise client displayed a message indicating that the minimum requirements are not met is resolved. Windows 10 OS no longer triggers a minimum requirements not met message for any PACS client instance with PACS version 4.4.551. **(PACS Admin Note: This issue would affect us if we took 4.4.552 which I would prefer to skip)**

0109178339 The issue of successful responses from federation layer showing AE instead of AA is resolved and now displays AA.

0108242516 The issue, System filters edits intermittently do not update when logged in with different users is resolved and now any edit to system filters is immediately applied and can be seen by other logged in users.

0109065006 Visible Light (XC) exams no longer displays incorrectly on the timeline.

0107813373 PIV now only shows valid certificates from a user's PIV card during IntelliSpace PACS Enterprise login, instead of all personal user certificates that are expired.

0105799729, 0105799688 The issue of German language translation has been fixed in this release of version.

0106984498, 546349 The issue of Linking Series Snap in 4.4 Enterprise not functioning properly is resolved.

0108550416 Audit Trail Client now shows the correct audit/activity, date time stamp.

0108942123 No error messages are displayed when clicking Groups under Security in PACS Administration tool.

0108641508 Prior to activation of User Preference "Show Non-DICOM Exams on Timeline", Enterprise no longer displays incorrect order on patient's timeline.

0105498509 The issue, "Export BSN" option not saved in iSiteMachinePref.xml is resolved. The Value is set to "1" in iSiteMachinePref.xml, now user doesn't have to check every at time of logging in.

0104224509, 0107073430, 0106753564, 0107068006, 0107456585, 0107527039, 0107895892, 0108198764, 0107129038 Philips GSPS marked read Presentation state, no longer arrives prior to DICOM information modality for Patient's age.

518875 Reasons dictionary window now displays when detaching study from any location in the GUI that allows a user to detach a study.

0106259088, 0106770945 SUBI window now no longer disappears after the launch of the URL.

0108786949 The assignment dashboard functions as designed when using Canadian date format on user workstation.

0104800486 When image is magnified, users are now be able to use the CTRL + Left Mouse or CTRL + center wheel to pan the images to view desired area of magnified image.

0107358186 Canvas pages are now updated when the new image arrives.

0109072362 The copy of report and key board short cuts now works accurately.

0108288168 The issue, "MessageLogsPurge job in iSiteweb running on all Nodes" is resolved and now runs on single node.

0107194434 The issue, not being able to add servicelocation in pacsadministration is resolved and now can be added.

0107951430, 0107969793, 0108051973, 0108246745, 0108281927, 0108439872 Patient name search across all organizations returns all matching results.

0108500679 The issue, "Middlename update from HL7 not being wiped" is resolved.

0108733482 Inactive provider is not duplicated when ORM message arrives.

0108832411 Local export no longer fails when exporting studies.

0108717934 Exams now shows once on the timeline and no longer crashes when using drag and drop.

0107781942 Double quotes can be send for the same value in subsequent messages, without receiving error and message gets posted to Data Base.

0108111947 The Exceptions area retains the same proportion size if the IntelliSpace PACS Radiology/IntelliSpace PACS Enterprise window is resized.

0109471575 In IntelliSpace PACS Radiology, images now hangs in the correct pane/viewport.

0108513063 The UltraHD 16bit PET CT images now can be consolidate and display.

0108247370 Crashing are no longer observed when opening multiple exams from a filter then navigating away to open another filter.

0109174170 The issue, MG Tomo image is flipped incorrectly is resolved and now can be viewed in order.

0107941475 The issue, Cardiac Electrophysiology Waveform Storage causing errors is resolved.

0106301574 CT with dosage information now displays on both 3.6 and 4.4 versions.

0107288899, 0107320433 The issue, when '+' symbol is used to create new policies and users validation message is not handled properly and new user and policies cannot be created with '+' symbol is resolved.

0107323976 The orientation of the additional tomosynthesis image displays correctly.

0106838293 IntelliSpace PACS no longer crashes while resolving exception.

0107083947, 0106991163 When the automatically VOI LUT is enabled, the available VOI LUT for rest of the images are applied.

0108992063 StorageService no longer crashes. DICOM files which are unable to consolidate are now at the errors folder.

0109029829 After the upgrade from 4.4.516 to 4.4.543 NATed remote sites works accordingly.

0108509687 Migration works as designed when adding a CPS with special characters.

0108443558 System Filter displays all exams for the criteria defined in the filter.

108706090 DB2Storage tool now registers studies found in the discrepancy report of records with present in Pixel missing in CDR.

0108532774 The issue of IntelliSpace PACS Radiology client intermittently crashing when the user manipulating images after upgrading from 3.6 to 4.4.541.0 is resolved.

0106713936 The shortcut for worklist filter now no longer takes long time when clicking on worklist filter button.

0107819100, 0107924136 The issue, "Age difference being shown between Timeline and clinical information exam notes" is resolved and now age is calculated correctly and not rounded off when DOB is >15 days.

0109021100 The issue, "Radiologists cannot edit the Annotation/ Triangle line style" is resolved. Radiologists now can edit, change the Triangle line style as desired.

0109367425, 0107883236, 0109430323, 0108807378 All pixel files now contains the image data and are viewable and greater than 103,014 bytes in size.

503602 The option "Delete Currently loaded Presentation State" is no longer active when study contains non legacy presentation states or CPS.

0105311571, 0108267833 Umlauts and special characters are now supported in the GUI.

0108108108 Scrolling while using the localizer feature no longer slows down by screen overlays being visible.

0108286272 Client no longer crashes or freezes while opening XA studies.

0109592228 Images no longer disappears when a new SUID is assigned.

0107057361 User can use any keyboard/language combination in Windows regardless of login language of IntelliSpace PACS Radiology.

0108434772 Keyboard shortcuts function <CTRL>+F now functions accurately while viewing reports in IntelliSpace PACS Radiology and IntelliSpace PACS Enterprise.

0108296248 Errors are no longer observed when viewing reports, when region is set to "Arabic (Saudi Arabia)".

0108228346, 0108241687, 0108305472, 0108247010, 0108337776, 0108468738, 0108603104, 0108603227, 0108685061, 0108672886, 0108764153, 0108792400, 0108757556 The default fit to window now works correctly on all images in IntelliSpace PACS Radiology.

0108325348 The issue of measurement discrepancy using the Measurement Assistant plugin is resolved.

4.4.552

107169913 Performance of the Hanging Protocol sequence steps is increased and no delays are observed.

106704556 The saved Presentation State now displays with Rotate Vertical CCW correctly on MR 3D Recon series.

106201667 The updated Modality values now can be imported successfully.

104753828,

0106830000 IntelliSpace PACS Workflow Layer's ability to run Peer Review Statistics has been fixed.

107824796 In WFL The exam/assignment time in the assigned exams dashboard now displays the actual exam and assignment time.

104607612 Report icon is present in the worklist when exams are marked read and exported to CD.

106938051 The issue of the Local Export using Anonymize option caused inverted images when view with PMSDView.exe has been fixed.

106496896 Hovering the mouse over the Hanging Protocol sequence buttons now has the correct German translation.

0106905385,

0106898762,

0107111014,

0107236816 IntelliSpace PACS Radiology will no longer force double sided printing.

107847646 IntelliSpace PACS will honour C-FIND request and will return results to the SCU (Service Class User) when "Unique Key Attributes" like the Patient id, Study/Series/Image UIDs are present at the query level.

106262059 IntelliSpace PACS Radiology no longer crashes while measuring images within stack Presentation State image count.

106780365 In WFL the study exam time are now displayed in local time zone for Critical findings dashboard.

107409163 "Show Non-DICOM Exams On Timeline" has now been correctly translated in to the French language.

106799788 The AE title edit box size is increased, allowing the user to enter 16 characters for a string.

0104470517,

0104089726

JPEG 2000 Lossy studies: improved image quality by Replacing Jasper library with IPP 7.0.

106222158 The issue of allowing duplicate physician ID's in ED identifiers field in WFL has been fixed.

0107174937,

0107248990 The measuring scale does not move when adding Annotations close to scale in IntelliSpace PACS Radiology.

106643208 The issue of CD Viewer time out and closing the exam when work station is idle has been fixed.

107001532,

0107027322 The WorkFlow layer assignment worklist shows the STAT status correctly after exam re-assignment.

107276508 In Work Flow Layer the IntelliSpace PACS Radiology client does not crash while opening a resolved exception link.

107141372 When using Workflow Layer to open an exception exam where no date of birth is present, Workflow Layer will no longer throw an error.

107027609 The Overlay buffer size issue in IntelliSpace PACS is now resolved. Sagittal and Coronal stored images will no longer appear distorted.

107061129 Media Export no longer fails when "remove annotation" and Philips Proprietary Format is checked.

107525918 After sorting the unread exam list from the filter and marking the exam to read the next exam from the sorted list is opened automatically.

104626016 IntelliSpace PACS Admin tool response time is increased on all requests made for editing user information or clicking on Groups or Policies.

107456363 System Filters no longer generates internal application error.

107914519 Latency in study authority call duration is greatly reduced and no longer impacts the image delivery performance.

107889198 When the first ORU message comes with a STAT priority and a new message for the same accession comes in without a priority, the STAT priority is now retained. The default priority is Routine if the first ORU message comes in without a priority. This change has been made in the ORU mapping in Rhapsody.

107080075 The Query API with Exception Query type supports the relational operators on StudyDTTM field used as filter condition.

106912294 The series re registration issue is resolved and opening of current exams no longer fails.

107186714 The Report Impressions were removed using a logic and iisreset on Integration node returns, when 4 standard impressions are deleted.

106083981 The Province/state in admin tool and also in Patient contact information reflects the name of the countries they belong to.

104588952 "Original DICOM" in Radiology displays the correct order of images as sent from the Modality with or without the Hanging Protocol.

107521377 When images are detached/deleted from IntelliSpace PACS and then resent from the modality they will now get correctly auto exported to the VNA.

105757643 Studies consolidated in current or prior versions are now exportable and no longer crashes the client when media exporting.

0106794571 Existing SUBI window now remains at the existing or current position when a new exam URL is launched.

106589921 The filter criteria now allows users to create filter with more than 250+ values for the parameters Patient Location, Exam Codes, and Performing Resource.

106214021 When images are loaded into the rack the Impression area of IntelliSpace PACS Radiology displays the exam descriptions.

107688826 The "Link all coronals" translation has been fixed in the German language.

106943552 SUBI login is faster now and no longer loads non required folders.

107341994 In the Patient Lookup field, both _**exceptions**_ and non-exceptions now displays the actual study date.

106736544 Pressing keyboard shortcut 'Collection Navigation Next Prior Exam' is not deleted to avoid Main Monitor Flash when reticule position is not changing for Main Monitor.

107688151 IntelliSpace PACS Radiology no longer crashes when both the mouse buttons are pressed together.

105964791 Memory allocation improved when running IntelliSpace Enterprise in containment mode.

0106318284,

0107157782 Entering text in the Subject field and pressing the TAB key the cursor successfully moves down to the BODY field.

105026879 The folder structure is retained when CPS is saved in a folder.

107619168 All mammography studies with CAD markers now displays the CAD marker display option as available.

104659005 Backspace key works uniformly and consistently on login page and doesn't takes user back to the previous web page.

0107364712,0107442548,0107617649Image zooming is now consistent and stays in poistion while dragging and dropping of images on canvas.

106740521 The FindStudy API call no longer fails in enterprise client in embedded or containment mode.

107292639 The Remove Link option now can be selected to remove specific ORGs.

0102124949,0107495980 Tooltip for locked exam is now correctly locked in its position even after moving the icon display location.

105446542 N-Event Report Responses are now sent as an reply to the VNA's NEvent Report Requests.

106910533 Security issue involving the ability to view linked patients across ORG's has been resolved.

0105016146,

0106602875,

0106719817,

0106735196,

0106735196

HL7 ORM update messages now gets correctly processed for migrated exams from iSite PACS 4.1.

107626108 Moving the reticules in IntelliSpace Radiology during certain instances no longer crashes the client.

105903080 When an empty Referring Provider value is received by an HL7 message, the Edit Exam screen shall now display a blank value.

106975915 The Query API now returns results on PatientLocation when more than 165 patient locations are defined.

0107229726,0107245965 The Study Time DICOM overlay now displays the correct time.

107367672 When selecting a patient in the middle of the page, the slide bar no longer moves to the bottom after closing exam.

107001430 The assignments on the Workflow Layer Assignment Worklist are now correctly sorting.

107812685 When memory fragmentation occurs during consolidation of DICOM, the consolidation service will automatically restart to prevent corruption.

107454579 Latency issue when launching IntelliSpace PACS Enterprise/ SUBI is now resolved and no longer slows down the launch.
106971659 Searching for a linked patient by using their last name now works correctly.
0105483091,0107074486 The report transform has been fixed to add the scheduled date/ time to the exam information.
107105325 When image is dragged in the exam rack to the extreme left, horizontal scroll bar position is set to where image has been dragged.
106227963 Memory allocation has been improved when viewing Tomo studies.
107183218 The issue, Unable to save a Conference Presentation state with two or more exam racks open on a canvas page is resolved and can allows to be saved.
0107358900,0106947985,0106859856,0107315267,0107194585 Query results are displayed when searched by patient name suffix. Example: Jr,Sr,II.
106635174 Presentation State with GE VOI LUTs in IntelliSpace PACS Enterprise displays same as IntelliSpace PACS Radiology with enhanced Mammo enabled and System Preference Automatically applies VOI LUT when available.
107588246 Federation fetched studies don't have Archived Flag set on the local DB. Only the migration flag gets set. This issue is fixed.
0107709132 Users now can open and view exams with reports from the patient lookup in the IntelliSpace PACS Enterprise.

0106786465 The text "As part of rule matching for the new order or study arrival rule, the most recent relevant priors shall be matched for export" and more information on the Auto Export Rules along with a table illustrating the fields that shall be used for matching the rule criterion is added in the section "Adding an Auto Export Rule".
0107777985 The Exam Date Time stored as the local time in the database is displayed in iExport Queue dialog without changing to the Local time again.
0106237795 The Order of series that matches the Series Matching Rule (SMR) and its clone windows position is implemented based on the preference in hanging protocol. User will be able to save a clone to PRECEDE a SMR in the Hanging Protocol wizard and save a presentation state.
499053 In the Instructions For Use, the Manipulating Images section is modified and The text "when associated with an MG image" is removed from the section '13.3.4 DICOM Grayscale Softcopy Presentation States(GSPS).
0106148808 The issue of MultiImageMode option is not available at all times is resolved and The MIM option is now available.
0107288825 The issue of Query on MRN in patientlookup is resolved and now the Query on MRN in patientlookup no longer limits the results for the search criteria and also without hanging the client.
544027 The Autoscaling section in the Viewing and Manipulating images has been appended with more details. Refer to CREF4.09-292 IntelliSpace PACS Radiology 4.4 User Guide for more details.
0107619168 All mammography studies with the CAD markers displays the CAD marker option.
0107588246 Archived Flag is now set correctly for the auto-deletion to work properly when the auto-delete watermark is reached.
0102094988 In the Instructions For Use, the "Resolving Duplicate UIDs" section in the Managing Studies and Images is updated with the DUPID documentation. Refer to CREF4.09-292 IntelliSpace PACS Radiology 4.4 User Guide for more details.
105035369 The issue of client crash when Reset API is called which internally closes all the opened canvas pages is resolved and no longer crashes the client.

0107080075 The Query API with Exception Query type supports the relational operators on StudyDTTM field used as filter condition.

0103120349 The IntelliSpace PACS Release Notes and the Instructions For Use is updated with the information on Series Stacking with same Series Matching Rule. Refer to IntelliSpace PACS Release Notes and Instructions For Use for more details.

0107647969 The issue of missing studies from IntelliSpace PACS system is resolved and studies are now available.

0107797977 When cancelling an exam from IntelliSpace PACS, the system now successfully triggers a Report Delete message.

0104119008 In the Instructions For Use, the Viewing and Manipulating Images section is updated with the following NOTE: • The maximum number of images that can be added to a collection is 20000 images for a series. Refer to CREF4.09-292 IntelliSpace PACS Radiology 4.4 User Guide for more details.

0108612556 Images when burned to CD using the Local Export tool, can be opened and launched via the mediaviewer.

0108359482 Test server upgrade from 4.4.532.1 to 4.4.550.1 now no longer wipes out the Plugin folder and also throws no error message while doing a study lookup.

0108086976 The FindStudy() method now works correctly when used in a containment integration and also returns the internal exam ID.

0105016146, 0106602875, 0106719817, 0106735196, 0106735196 HL7 ORM update messages now gets correctly processed for migrated exams from iSite PACS 4.1.

0107133294 Recycling of application pool is set to true now to prevent two processes running at the same time.

0108603587 No error messages are now observed when IntelliSpace PACS is upgraded from 4.4.541.5 to 4.4.543.

0107310697 HL7 Backlog and high CPU utilization is not noticed now due to large number of storage commit records in SwWorkItem table.

0108632171 Error message " C: is out of space" is no longer observed while dragging studies to local/CD Export and attempting to burn a study on a physical media.

528902 The IntelliSpace PACS Radiology Client Freezes/Crashes intermittently across multiple workstations. This issue is now resolved.

0104524808 Fixed an issue where the patient and exam will not be created when an ORMCA message is received and neither the patient nor the exam exist in the ORG.

0105179996 Print to Paper function was not working in IE 11 due to an inherent settings in IE 11, which delay the loading of Print dialog. This issue is resolved.

0105289334,0104602610 The date/time in IntelliSpace PACS now comes from the DICOM study date/time and not from HL7. This applies to linked exams, as well as the date/time displays in filters, timeline, and lookups.

0106833687 Breast Fit to window for images with field of view rotation (0018,7032) as 180 now displays the Breast Tomosynthesis and Cview series on Monitor Display format M4 and M1.

0106839603 At times IntelliSpace PACS Radiology client crashed while navigating through the Hanging Protocol sequence. This issue is resolved.

0104872138 Application no longer crashes when zooming is applied on an exam image.

538402 AutoCreate organization now results in an entry on the timeline reflecting the exam code description associated with the exam code from the SeriesReg transform in the ECD for that organization.

0103190339 When editing an old Hanging Protocol with new Series Matching Rules, old links are not displayed anymore.

538121, 0103904426 When Powerscribe is opened with IntelliSpace PACS Radiology Patient Date Of Birth and demography mismatch warning message are displayed. This issue is fixed in this version.

0102342507 During coarse fast cine pressing of any F keys related to change series/advance reticules beyond the first hung series, the system does not validate the fast coarse cine in progress and tries to move to the another series, leading to an unhanded exception. This issue is fixed in this version.

0103411268, 0104129476 when logging into IntelliSpace PACS Enterprise, the drag behavior from the rack to monitors is active, but when dropping the image to the monitor it snaps back to the rack. This issue is resolved.

0106844759 When flipping through the Hanging protocol in IntelliSpace PACS Radiology sequence the refresh rate of the layout was slow. This issue is fixed in this version and Hanging Protocol navigation speed is improved.

0105427633,0105963029 Regardless of status Intellispace PACS now unlocks all exams after closing them.

0105582537 The machine filter shortcut key is functional now and activates the filter without getting any error.

0106105407 IntelliSpace PACS Enterprise browser now fills the window without leading to any unnecessary vertical scroll bar on the right.

0106209975 The login speed of IntelliSpace PACS Radiology and Enterprise is improved

00508525 When user tries to modify a selected Date of Birth in their filter field, this is not allowed because field is read only. This issue is resolved and now allows to edit the DateTime field by using the backspace key. It was always "editable" just not by using the keyboard.

0106844730 Vertical alignment for mammography images now functions correctly on the mammography images.

521191 In Work Flow Layer, PriorExamMarkedRead is added to mark nonmain exams as read.

0104302851, 0104138886 The shortcut keys 'Shift'/ 'Ctrl'/ 'D' + Left click the Replace and Swap for Drag and Drop functionas is now correct.

0105738883,01042245 01 In Work Flow Layer, the exam link & exam link w/presentation functionality now displays as designed, when multiple exams are opened.

0105717094,0106116650,0106116634,0106116623,0106116602,0106116575,0106116748 Loading of exams stops when user marks exam read from filter/worklist in IntelliSpace PACS Radiology. This issue is resolved and continues loading in the background when user marks exam as read.

0106625502,0106661554 JPEG compressed images no longer crash when viewed in Volume Vision (VV) and Cardiology Enterprise Viewer (CEV).

0105553265 When a filter with a comma (,) in the name is created the filter works but when a shortcut is created it generated an error. This issue is resolved in this version.

0102308537 In Work Flow Layer, the Global setting warning message is now displayed.

0105788060 Resolved an issue when user anonymizes MR or CT exam and export the Anonymized exam with no change to the FRAME of REFERENCE. The FRAME of Reference is preserved upon export to another destination. When the FRAME OF REFERENCE is present in the original DICOM Data, the FRAME of REFERENCE should always be present for any method of anonymization.

0106161038 In the header of the printed reports the Attending and requesting provider information is now displayed.

0105729191 In Work Flow Layer, when a mail message is sent to multiple recipients and if one of the recipients deletes the mail message then other recipients mail message gets deleted too. This issue is resolved and the mail messages are not deleted in multiple recipient scenario.

0106368494 It's now possible to export any number of users from the PACS Administration (the limits have been removed).

0106041018 When trying to resolve a Demographic mismatch, for an exam which does not have "Date of Birth", then the Demographic mismatch does not get resolved. This issue is fixed, and now the Demographic mismatch can be resolved even if the DOB of the patient is "NULL".

0105482411,0105760439,0106363170,0106396615 In IntelliSpace PACS Radiology, the clone that is part of the Hanging Protocol and stored in the Presentation State or CPS, is now displayed after reopening of the exam.

0106683138 When linked patients are searched a single patient record is displayed. The single patient record displays the Patient Name, MRN, DOB and Organization. Expand on the linked patient record to see all the exams for the patient under the current organization and for linked patient exams from other organizations. If the linked patients have multiple MRNs, then the search result is sorted on the latest MRN.

0104214977,0105716164,0105710913 DICOM Source settings are now applied correctly in certain situations where merge condition exists.

0105004969,0105433588,0105510917,0105304604,0105066928,0105532520 Exam lookup for every 24 hours query now displays exams with full images.

0105527171,0105532122,0105532144,0104631926,0104569534,0104751758,0104751702,0104801216, 0104879214,0105590046 Users are now able to resolve exception for the non-auto create organization.

0105230746 In the IntelliSpace PACS clients, the PET/CT images no longer crashes the client even when the images are corrupted.

0106676373 In a Federation environment, when multiple exam reports are opened in the Canvas page, and on closing one report, the other reports were not closing. This issue is fixed and now all the reports can be closed by clicking the "Close" button.

536755 German letter/ umlaut "ä, ö, ü" are now visible.

0105649100 Query API now works fine with IN operator on accession number.

0106228294, 540265 Resolved an issue of the display process for the Merge Patient window to fit for all resolutions.

0102960857 Exam code Modifiers with no description can be saved now when editing the exam.

0102726711 In Work Flow Layer, while opening a study, the critical findings popup window is now displayed automatically.

0104254536 Demographic mismatch is removed and DUPID exception is resolved.

0105737145 In Work Flow Layer, exceptions can be used by radiologists for Critical Findings with out any error.

0105666300 Modality Performed Procedure Steps (MPPS) objects are now correctly being processed.

0106363139,0106403413 When a CPS item is double-clicked from the folder list, the exam is opened and the corresponding CPS is loaded even when a System CPS exists for the exam.

0106265480,0105555466 In Work Flow Layer the search criteria now displays exam details for the Last 3 days and 0-7 days.

0106743895, 0106702486 The DICOM tag (FFFE,E0DD) is added in the multiframe SOP class single frame and multiframe images by iSyntax and enables the correct display of the IVUS images.

0106486620 In HL7 Org, the Referring Physician field was missing. This issue is resolved.

0107146600 IntelliSpace PACS client no longer hangs when navigating across the Hanging Protocol Sequences.

0106644823 User's can now access images using NAT IP addresses.

0105845554, 0106404206 VNA worklist is now functional when accessed from PACS Administration without error.

0106998532 IntelliSpace PACS client no longer crashes when using the shortcut keys F7 and F8.

498793 The icons represent both loaded and partially loaded status. The table in the section 11.7 in the IFU (IntelliSpace PACS Radiology) Using the Exam Margin is updated with the required information.

0105412303,0106489027 DICOM with character set ISO IR_192 is now consolidated without any errors.

0106300190, 0106300175 DMWL now functions as intended even if the patient name contains characters like ë or ä.

0105885127 The federation Query correctly retrieves the studies from the remote servers when the remote server name starts with special characters (!, $, @).

0106824214, 0106893291, 0106796722 When multiple exams were opened simultaneously in the ROP (Radiologist Operating Panel), the exam notes moved to the diagnostic monitors. This issue is fixed, and the exam notes does not move to the diagnostic monitor and stays in the ROP monitor.

0106461383 The following arguments are added into the VNA Sweeper Utility
command line task:
priority
locationAffinity
ignorelrtupdate

530214, 106020921 When an exam is cancelled (which detaches the exam from the patient) and then a HL7 message is sent again with the same accession number for the same patient, the detached exception is automatically resolved on receiving the HL7 update with the Scheduled exam status.

0105299796 Selecting SSL as Authentication, the applications fails to authenticate against external AD resource using port 636. This issue is resolved.

0106427619 Resolved and issue where the StentorConfiguration DB on Infrastructure was not backed up.

514894 Exams are now allowed to be marked read for more than once in the System Preferences\ General Preferences option as administrator.

0106308073 IntelliSpace PACS Radiology (Production System) no longer crashes when toggling on CAD Markers particularly on MG studies.

0106265480 In Work Flow Layer, exam search does not fetch the exams assigned in the last "3 days" and "0-7 days" in both the Assignment Dashboard and Search feature. This issue is now resolved.

0107117352 Latency caused due to CRC check is now resolved and no more slows down the operations of the servers.

0106188689 When the workflow of assigning new SUID, detaching and resolving the exception is done, the software ensure appropriate resolution of the exception (instead of going back to the old accession number).

0106063413 The Delay in Saving Presentation States Studies is fixed and client no longer crashes.

0106501945 Clinical Exam notes now displays the age of the patient when the exam was acquired.

0106308226 Single server iVAult with multiple stacks behaves similar to the iVault storage node behaviour.

0106063450 Clicking "X" button in the title bar will no longer crash the IntelliSpace PACS Radiology Client.

0106113029 IntelliSpace PACS now supports the deletion strategies for mirror archive nodes when IntelliSpace PACS is enabled as a VNA client.

0106825614 Exception handling has been strengthened when handling OBM (Outbound Notification Messages) message of type StudyDeleted.

0106844848 The circle radius of Tomosynthesis Bi-Directional localizer image is reduced to 10mm from 20mm for a better viewing.

0106774648 When exporting MG with Breast Tomosynthesis (BTO) JPEG 2000 from 4.4.526 to 4.4.540 BTO JPEG 2000 series some images were displayed in white color, this issue is fixed and now displays appropriately.

0107111505 Federation layer now sends proper Message response code from XDS solution Possible Message response codes are AA, AR and AE for success, unrecoverable and recoverable errors respectively.

512979, 0102883433, 0103078513 When an exam presentation state is displayed, the Presentation State icon is displayed in the exam margin. The Presentation State conflict icon (with different background color) will be displayed when the following conditions are met:
• If there are multiple presentation states for the exam.
• If more than one presentation state has same value for Content Label (0070,0080), Content Description (0070,0081) and Content Creator name(0070,0084) tags.
• If two or more Presentation States having same value for these tags refer to a common image.

0107064373 The Client now displays correct Dutch and German localized language for the word "Table Position" in the GUI.

0105788060 Anonymized MR/CT on export no longer removes the Frame of Reference UID for Localizer and Scout. However it anonymizes the UID value.