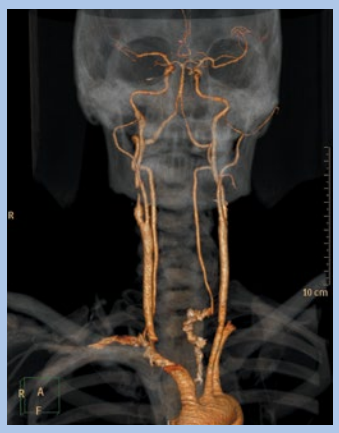
PHILIPS

IntelliSpace Portal 7.0

Datasheet



All your advanced analysis needs
One integrated solution

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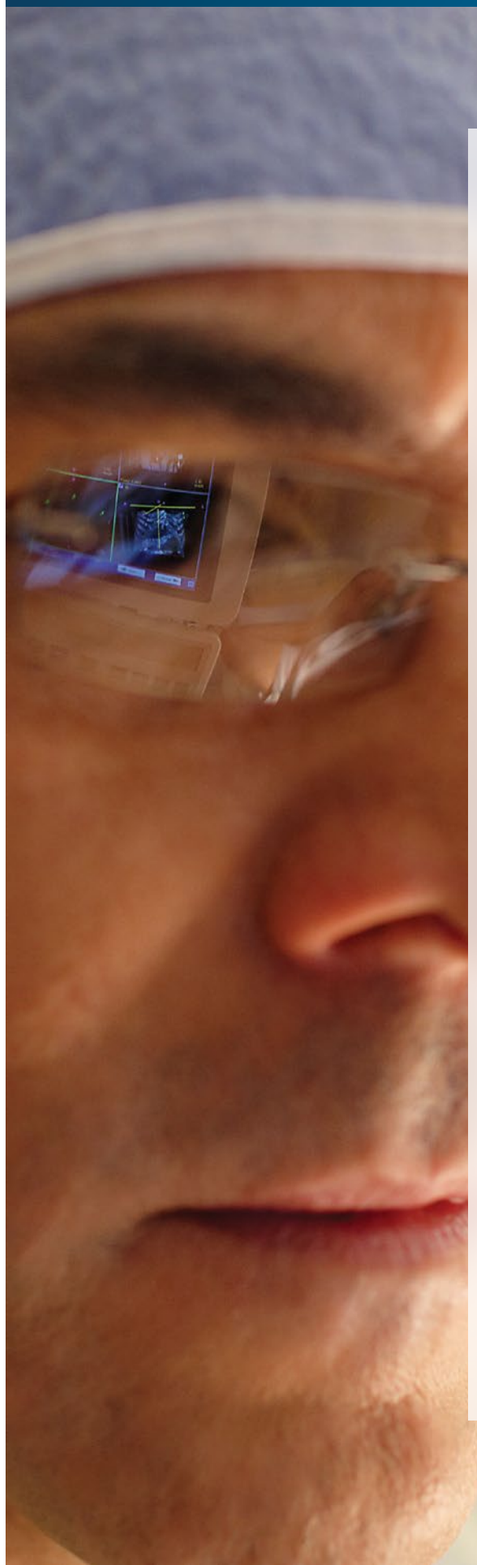
(1) Not available for sale in the US
(2) Only available in the US
(3) CAD functionality not available for sale in the US

New application
Enhanced application

1. A single solution for the most complex patients



The Philips IntelliSpace Portal 7.0 is an advanced visualization platform that offers a single integrated solution for multiple modalities, vendors, and clinical domains to help you work quickly with increased diagnostic confidence to boost productivity.

Key advantages

- Work quickly with increased diagnostic confidence: Workflow efficiencies, time-saving tools, and a collaborative viewing options help clinicians spend more time on providing input to patient treatment
- Multi-modality clinical applications: Unlock the full potential of most clinical scans, accessed from any point in your network in order to quickly quantify and diagnose
- Continuous evolution: Answer tomorrow's challenges thanks to constant access to software and hardware upgrades, application improvements, training, and education

More clinical depth
Experience a constantly growing portfolio of expanded and enhanced applications designed by clinicians for clinicians, offering exceptional flexibility to access, analyze, and quantify CT, MR, MI, US, iXR, and DXR images and information - in one unified view.

Extensive clinical coverage
IntelliSpace Portal 7.0 applications are designed around care disciplines. Our portfolio is constantly growing in terms of width and depth. New applications, for example, offer enhanced clinical capabilities in tracking and monitoring pulmonary disease. At the same time, enhancements to existing applications deliver rich insight, fast.

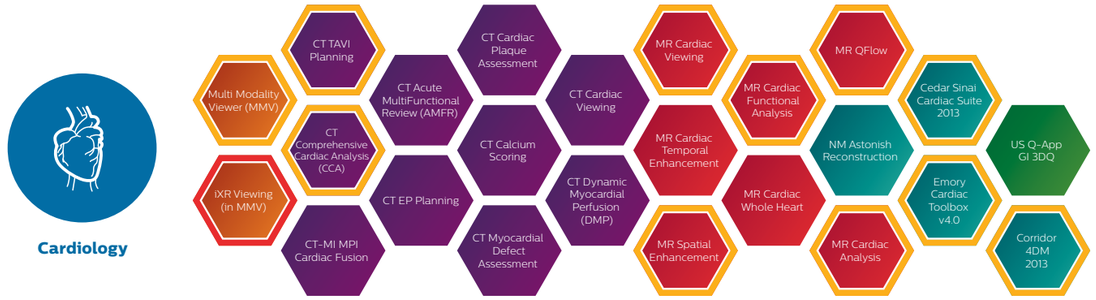
Exceptional reading time after time
The IntelliSpace Portal 7.0 handles CT, MR, MI, US, iXR, and DXR data from multiple vendors, providing a consistent multi-modality viewing environment across the enterprise*.

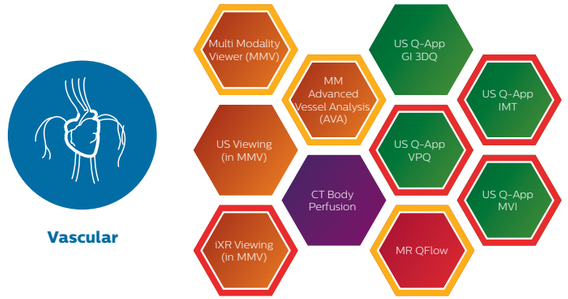
A more efficient use of time
Time-saving features like zero click segmentation, collaboration tools, image pre-processing, fetching of priors, and guided workflows are just some of the tools which accelerate time from image acquisition to diagnosis. Seamless integration with PACS and RIS allows data to be communicated across the clinical spectrum.

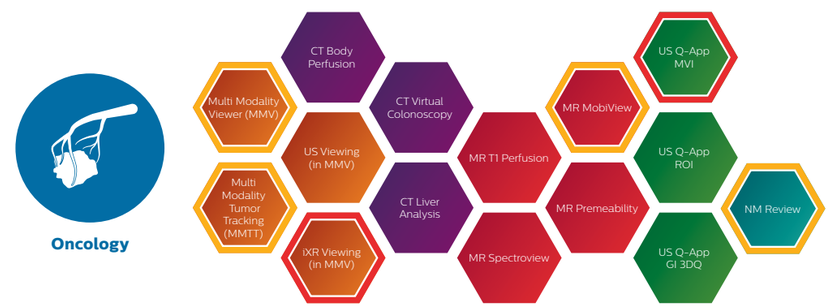
A solution that evolves
Philips RightFit agreements help assure you're at the forefront of clinical and hospital IT innovation. RightFit agreements can cover new features, and functions while serving the needs of both clinicians and IT professionals by keeping them connected to a steady stream of innovations. These include new features, functions, applications, modalities, and workflow efficiencies as well as software and optional hardware upgrades along with clinical education and training services.

*** Please contact your local Philips representative for details on multi-vendor coverage.**

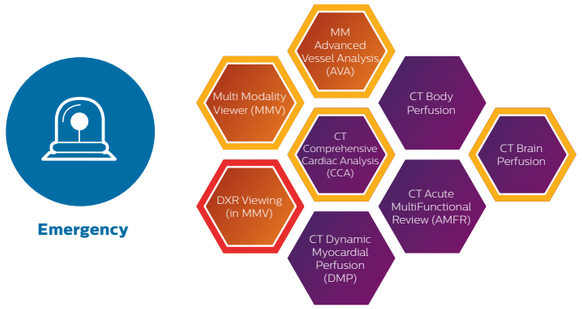
The IntelliSpace Portal 7.0 gives you full-featured access to any application virtually anywhere, at anytime. These advanced multi-modality applications are designed to help you quickly and easily deliver clinical results with insight.

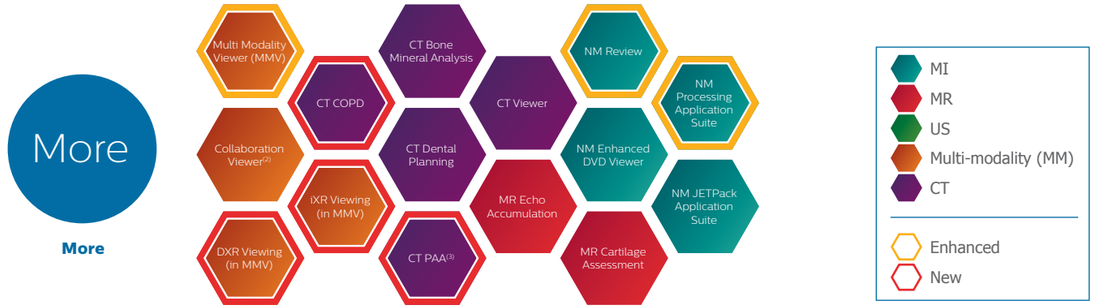






1. A single solution for the most complex patients 1





(1) Not available for sale in the US
(2) Web Collaboration enables viewing and sharing with tablets and smartphone devices – not intended for diagnosis
(3) CAD functionality not available for sale in the US

Multi Modality Viewer – **a single platform** for all your viewing needs

The Philips IntelliSpace Portal 7.0 displays multi-modality datasets on any client using a LAN, WAN or broadband Internet connection via the hospital VPN.

Powerful data processing functions are handled on the server, so there's no need to download data to the device. This improves workflow and stability.

Analyze these datasets using our Multi Modality Viewer:

- CT
- MR
- MI
- US
- iXR
- DXR

Multi Modality Tumor Tracking

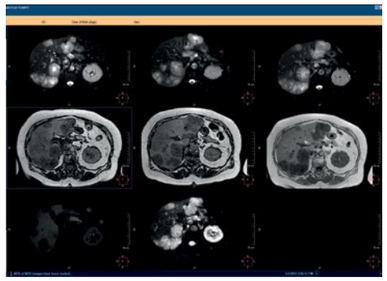
Enh.

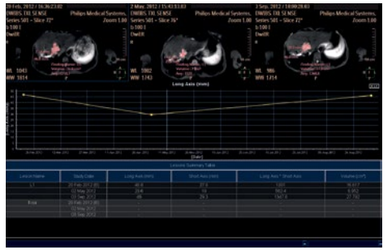
Streamlined workflow for follow-up and analysis of oncology patients

Monitor disease state to assess treatment response using CT, MR, PET/CT, and SPECT/CT data. Segment lesions and quantify anatomic and metabolic state over time. Enhanced semi-automatic volumetric segmentation optimized per modality. Advanced treatment response criteria support is part of the preset and reflected in a workflow which allows for easy review in different layouts. Quantitative overview of volumetric and functional features is organized for greatest ease of use.

Clinical area

Oncology





Benefits

- Easily label target and non-target lesions to track lesion progression
- These labels result in a comprehensive result table that allows easy evaluation of the main parameters (short and long axes, volume and mean HU) for both target and non-target lesion
- Complete overview of all generated advanced data like perfusion maps, fMRI data, white matter tracts, and spectroscopy results in 2D and 3D
- Quantitative overview of all segmentations for comparison
- Smart linking enabling the correct location of each image series in comparison to other series

Automatic calculation of:

- WHO
- RECIST 1.0
- RECIST 1.1
- CHOI
- PERCIST
- mRECIST

Criteria presented in easily exportable tabular and graphical layouts

> "The MMTT application has really helped us simplify and streamline our workflow. It has all the necessary tools for comprehensive oncologic evaluation of the dataset. It's is **a real time-saver** for the radiologist."
>
> *J. Louis Rankin*
> *Franciscan St. Francis Health, Indianapolis, USA*

Multi Modality Advanced Vessel Analysis (AVA)

Enh.

Reduce comprehensive vascular analysis planning to five minutes

Take advantage of multiple presets and user-defined options to reduce comprehensive vascular analysis planning to five minutes. The robust bone removal algorithm on Multi Modality Advanced Vessel Analysis (AVA) provides 3D visualization of the vessels. Additional automatic tools, such as bone removal and centerlines and vessel labeling as well as inner and outer lumen contours*, contribute to fast, consistent results.

Easily navigate through multiple findings and when you're finished, export rich, customizable reports to your RIS or PACS without hassle.

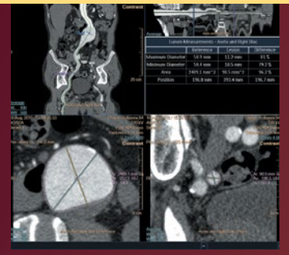
Clinical area

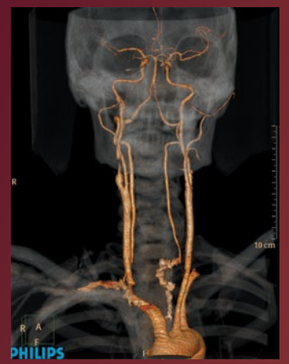
Vascular analysis

Benefits

- Examine and quantify vascular lesions from CTA MRA studies
- Accommodate different modes of inspection and label different vascular lesions
- Reduce the time to produce end results with automatic creation of cMPR, cross-sectional, MPR, extracted centerlines, and volume images created even before you open your study
- Get excellent visualization of vascular structures with simplified zero-click bone removal and visualize the carotid siphon with skull removal
- Enhance workflows for specific findings creation, like stenosis, aneurysm, and diameter measurements with customizable views

* Together with Enhanced Zero-click Performance option





Speed up workflows by 77%

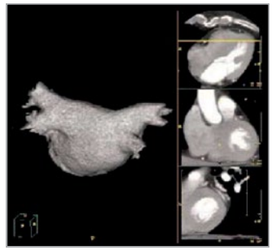
Multi Modality Advanced Vessel Analysis (AVA) reduces the manual time-to-results by 77% for neuro (head/neck) and body CT angiography (CTA) exams.*[2]

Manual procedures

MM Advanced Vessel Analysis (AVA) with ASC

* Compared to the Philips EBW v4.x workstation

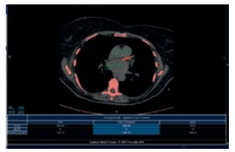
[2] Kadavigere, R., Maiya, M., Rao, V., Read, K. Standardized Results of CT Angiography Obtained with Automated Postprocessing Using a Dedicated Server: A Workflow Optimization Study. A collaboration of Philips Healthcare and Kasturba Medical College at Manipal University, India. Radiological Society of North America 2011 Scientific Assembly and Annual Meeting, November 26 - December 2, 2011 ,Chicago IL.



Fast planning for EP procedures

CT EP Planning provides fast, overall assessment of pulmonary vein, left atrial, and appendage anatomy, enabling the electrophysiologist to quickly identify anatomy that may complicate the EP procedure.

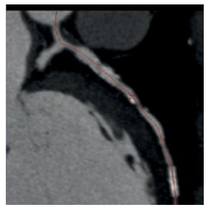
- Cardiology
- Surgery



One-click 3D calcium segmentation

CT Calcium Scoring rapidly quantifies coronary artery calcifications (CAC) and includes mass, Agatston score, and volume scores. It enables paper or electronic results distribution of automated, customizable reports.

- Cardiology



Fast cardiac analysis

CT Comprehensive Cardiac Analysis (CCA) and advanced LV/RV functional analysis provided endoluminal and epiluminal segmentation of the heart chambers to calculate ejection-fraction, stroke volume, cardiac output, and left and right ventricular mass. Visualize the entire coronary tree, vessel lumen via morphological analysis, and analyze free lumen diameter. Functional analysis of ventricles and analyze chamber and valve morphology in 3Dand using dynamic cine mode. New added calculations include: regurgitation volume and fraction index, RV/LV Early and Late (active and passive) filling volumes, Early/late LV filling ratio.

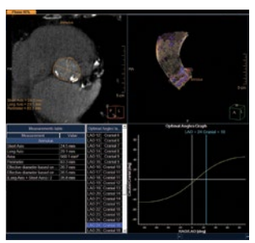
- Cardiology

Enh.

Fusing cardiac CT-MI

CT Comprehensive Cardiac Analysis (CCA) incorporates support for myocardial perfusion imaging (MPI). CCA with the CT-MI Fusion option allows loading both gated and un-gated rest, and gated and un-gated stress MI datasets simultaneously with the CT. The MI images are displayed in the short axis and the two longaxis planes. The axes definition is derived from the CT study.

- Cardiology

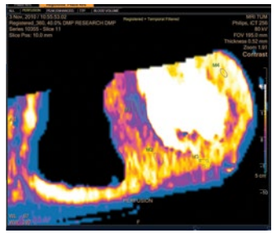


CT imaging in TAVI to advance patient care

CT TAVI Planning is a non-invasive post-processing application that provides semi-automatic measurements of the aorta and aortic valve that are useful for pre-TAVI planning. The application provides model-based segmentation of the aortic valve, ascending aorta and left ventricle, semi-automated detection of the coronary ostia, semiautomated planes detection and dimensions measurements of the aortic annulus, left ventricular outflow tract, sinotubular junction, sinus of valsalva, ascending aorta and distance to coronary ostia for TAVI-device sizing. The CT TAVI Planning application also provides a reasonable starting angle of the C-arm for device deployment, which allows for less time used for the TAVI procedure itself performed in the catheterization laboratory or hybrid operating room. Recently added automatic measurements include Left and Right coronary sinus height, Non-coronary sinus height, and aortic angulation.

- Cardiology

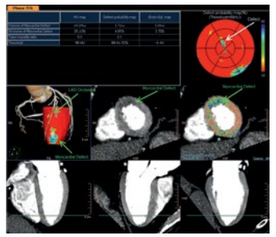
Enh.



Dynamic color maps provide an assessment of myocardial risk

CT Dynamic Myocardial Perfusion (DMP) is intended for visualization, diagnostic assessment, and quantification of cardiac images focusing on the left ventricular myocardium: specifically providing quantitative myocardial blood flow measurements for CT images, including the ability to identify areas of decreased perfusion within the myocardium that may represent ischemia. The application supports axial, ECG-gated CT images, consisting of multiple time shots of the same myocardial region over time. CT DMP displays the results as a composite image (single image that is calculated from a set of time course images at a single location).

- Cardiology

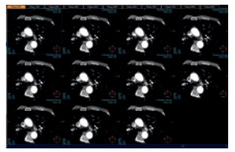


Assessing myocardial defects

CT Myocardial Defect Assessment provides visual and quantitative assessment of segmented, low-attenuation defect areas within the myocardium from a single, gated cardiac CTA scan (retrospectively-gated spiral or Step and Shoot Cardiac). The ability to derive this information from a single cardiac CTA scan reduces the need for multiple scans. The application itself is based on the robust, automatic, model-based, whole heart segmentation from the Comprehensive Cardiac Analysis application. Myocardial Defect Assessment provides visual assessment of low-attenuation deficits within the left-ventricular myocardium via the following:

1. Color maps shown in short-axis views
2. Segmentation maps shown on short-axis and polar plots, displayed along with long-axis reference images
3. Volumetric visualization of coronary arteries along with segmentation maps displayed as an overlay on top of a 3D myocardial surface

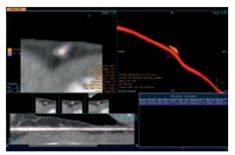
- Cardiology



Quick cardiac visualization

CT Cardiac Viewer provides a comprehensive set of tools that allows quick visualization of one or multiple cardiac phases, synchronization of multiple cardiac phases with interactive slab-MIP tools for review purposes, cine mode for cardiac axes views, and a simple "Area-Length" calculation of end systolic volume (ESV), end diastolic volume (EDV), cardiac output (CO) and ejection fraction (EF) for basic ventricular functional assessment.

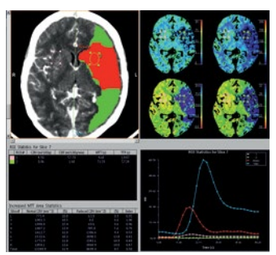
- Cardiology



Evaluate plaque risk

CT Cardiac Plaque Assessment includes robust capabilities allowing quantification and characterization of coronary plaque from multidetector computed tomography (MDCT) data. This application gives the clinician the capability to assess plaque sites.

- Cardiology
- Vascular

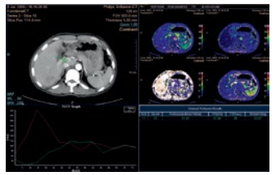


Identify salvageable areas in acute stroke

CT Brain Perfusion, exclusive to Philips, calculates and displays reduced flow summary maps . to help clinicians identify areas of salvageable tissue in acute stroke patients and assist in treatment planning. In addition, the application includes methods to visualize regions with higher collateral supply. The program automatically corrects misregistration or motion artifacts, and displays summary maps that help clinicians distinguish between still-viable and non-viable infarcted tissue. Permeability maps are standard, and optional time-sensitive algorithms are also available.

- Neurology
- Surgery

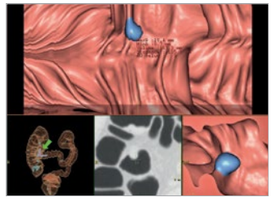
Enh.



Quantifiable perfusion

CT Body Perfusion aids in the evaluation of acute or chronic stroke patients, as well as providing whole-organ or single-location liver perfusion. The package provides motion correction, and enables large coverage/low-dose imaging for superb neuro results.

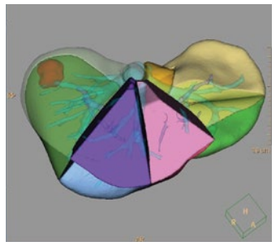
- Neurology
- Oncology



Reduce reading times in virtual colonoscopy

Exclusive to Philips, **CT Virtual Colonoscopy** with Perspective Filet View allows clinicians to perform a "virtual dissection" of the colon by unfolding or unrolling along the centerline and displaying a portion of the colon for inspection, providing a 100% view of the surface of the colon with no image manipulation.

- Oncology
- Surgery



Advanced liver segmentation

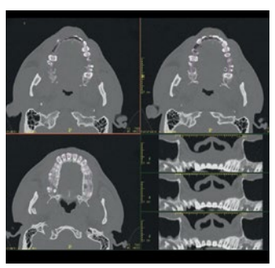
CT Liver Analysis automatically identifies the liver from a portal venous phase of a tri-phase liver scan, complete with automatic portal and hepatic vein segmentation. As a basis for comprehensive analysis and quantification, the liver is segmented semi-automatically using six types of segmentation, including 8-lobe and 9-lobe. The application enables absolute and relative volume measurements as well as virtual hepatectomy for RF ablation and surgery planning.

- Oncology
- Surgery

Assess lung nodules over time

CT Lung Nodule Assessment (LNA) provides quantitative information about the size, shape, and change over time of physician-indicated lung nodules. The package provides one-click volume segmentation, advanced reporting for rapid distribution of paper and electronic results, and the ability to compare studies by scrolling through multiple linked datasets.

- Oncology
- Surgery



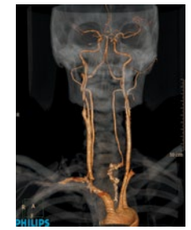
Planning for oral surgery

In maxillofacial trauma cases, the course of treatment can often only be decided after a surgical consult. **CT Dental Planning** is designed to reduce diagnosis response time, shorten procedure length through enhanced surgical planning, and facilitate collaboration between radiologists and surgeons. Images can be rotated and adjusted to find the appropriate location, angle, and depth for surgery. For example, oral and maxillofacial surgeons can locate tooth fragments embedded in the palate of the mouth. Planning with 3D images also helps in estimating the thickness of bone when drilling and inserting metallic dental implants.

- Surgery

3. CT clinical applications (continued)

CT

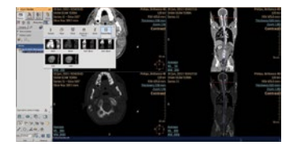


Quickly plan endovascular stent placement

CT Advanced Vessel Analysis (AVA) Stent Planning includes multiple preset and user-defined options to gain detailed information for use in stent planning, reducing overall planning time to five minutes compared to 30-45 minutes without the application. The application includes an option that allows results to be printed on a customized report.

- Vascular
- Surgery

Enh.

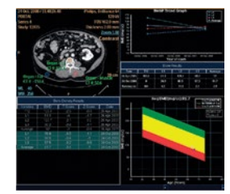


One application for fast systematic review

CT Acute MultiFunctional Review allows the clinician reading trauma cases to remain within one comprehensive post-processing application to accomplish the diagnosis of trauma patients that were scanned with CT. The application offers:

- Viewing stage for trauma assessment
- Rapid vascular assessment
- Automatic spine assessment
- Interactive pre-surgical MSK
- Multifunctional Findings Navigator to easily create, manage, and convey findings

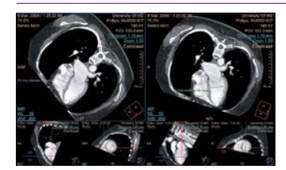
- Surgery
- Trauma
- MSK



Track degenerative and metabolic bone disease

CT Bone Mineral Analysis (BMA) provides quantitative CT information to track and/or manage degenerative and metabolic bone diseases, such as osteoporosis. CT BMA provides excellent results without the need of a reference phantom. Phantomless calculations are determined by using the patient's own fat and muscle tissue as reference points. The application automatically calculates T-scores and Z-scores and includes tracking support from study to study as well as full color screens and reports.

- MSK

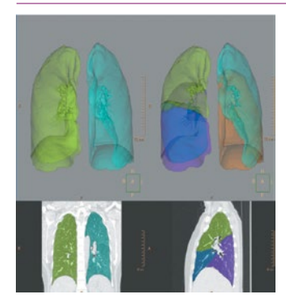


Guided pulmonary embolism discovery

CT Pulmonary Artery Analysis[1] offers automatic segmentation of pulmonary arteries on MDCT data to estimate the patency of pulmonary arteries. A full suite of tools helps visualize the lungs, review results, and report any PE findings. Extract relevant cardiac measurements such as RV/LV ventricular ratio and chambers volumes.

- Pulmonary

New



Track lung disease

CT COPD helps quantifiably track the destructive process of diffuse lung disease (emphysema, asbestosis, black lung) and localize specific areas of the lung that have been affected. Automatically segment both the left and right lungs to determine total lung volume (cc), diseased lung volume (cc) and percentage of affected lung. Segment the airway tree, attain centerlines, and measure airway parameters like lumen diameter and wall thickness.

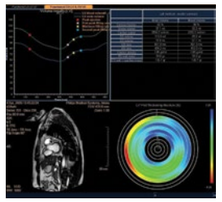
- Pulmonary

New

[1] CAD functionality not available for sale in the US

4. MR clinical applications

MR

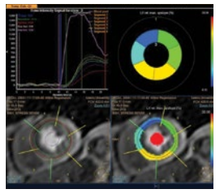


Detailed quantification of cardiac function

MR Cardiac facilitates easy visual scoring in various examination contexts. The package enables comprehensive functional volumetric analysis for the ventricles, e.g. w/o papillary muscle corrections, segmentations for generation of global functional parameters such as wall motion, thickness and thickening. Furthermore, identification of spatial enhancement based on intensity signal changes is included while bookmark functionality 'frames' any view on the data that is relevant for saving or communicating to other physicians.

- Cardiology

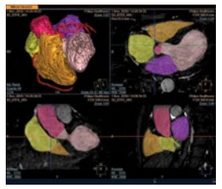
Enh.



Assessing temporal enhancements of the myocardium

MR Cardiac Temporal Enhancement facilitates myocardial analysis of dynamically resolved cardiac data (multi-slice, dynamics) and enables comparison of rest and stress studies. Results are presented using either the AHA standardized or adapted bull's eye views. The package includes a correction algorithm and manual tools to correct frame-to-frame heart displacements caused by breathing.

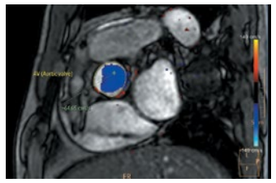
- Cardiology



Detailed 3D visualization of the segmented heart

MR Cardiac Whole Heart performs automated segmentation of the heart into individual segments such as left-ventricle, right-ventricle, atria, coronaries etc. Results can be presented in a high quality 3D rendering.

- Cardiology

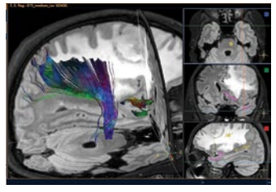


Visualizing and quantifying blood flow dynamics

MR QFlow enables review of q-flow data. The tooling creates 2D color flow overlay maps on anatomical references, e.g. to be used to calculate stroke volumes. The package includes automatic vessel contour detection for large vessels to quickly analyze vessel flow. Background correction allows for offset correction required for q-flow data of certain MR vendors.

- Cardiology
- Vascular

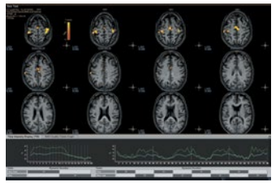
Enh.



Visualize white matter connectivity in the brain

MR FiberTrak provides visualization of white matter tracts using task guidance for generating common or user-defined tracts. Detailed examples are used to guide the user for the various tracts. Visualization includes overlays, e.g. with functional maps. Bookmarks will allow saving of any (intermediate) view of the package on a dataset.

- Neurology



Brain activation analysis

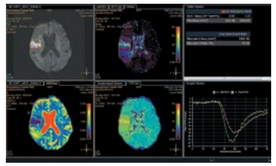
The **MR IViewBOLD package** facilitates off-line functional BOLD MRI analysis for both block, event-related, and seed-based resting state analysis, thereby enabling visualization of task-related areas of activation. Automated pre-processing like dynamics registration, registration to anatomical reference etc enables efficient workflow. Furthermore, the user can have detailed reviews of the data, e.g. review of the average responses to events, display registration results across dynamics etc. Export of functional results to other DICOM nodes like surgical planning devices is included in the base configuration.

- Neurology

Enh.

4. MR clinical applications (continued)

MR



Reviewing brain tissue viability

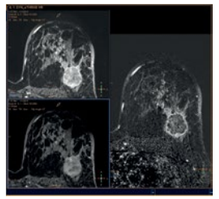
MR T2* (Neuro) Perfusion is designed to assess brain perfusion helping with stroke assessment and other disease tracking. The application provides mean transit time (MTT), relative Cerebral blood Volume (relCBV), time to peak (TTP), time of arrival (T0), and relative Cerebral Blood Flow (relCBF). In addition visualization and quantitative analysis of the diffusion-perfusion mismatch in case of acute stroke is included. Registration is included. Temporal and spatial smoothing of the input data can be performed to improve SNR. The package includes user-selected color coding of the functional data and maps can be viewed and stored as overlays on anatomical reference images. The opacity of the overlay is user-defined. ROI analysis can be performed, and an arterial input functions (AIF) can be defined if required.

- Neurology

Detailed review of diffusion indicated lesions

MR Diffusion tool enables analysis of diffusion characteristics such as ADC, eADC, and FA in stroke cases and other diseases. Registration of the underlying data allows for reduced blurring in case data affected by motion. The tool includes capabilities such as user-selected color coding of output maps and user-selected choice of specific b-values for the end calculation.

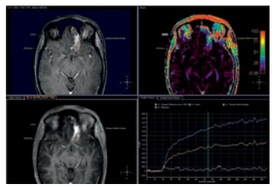
- Neurology
- Oncology



Improve image contrasts for MR data in dynamic studies

MR Subtraction enables subtraction calculations of dynamic studies, and also provides for computation of magnetization transfer contrast ratio (MTC) images from an appropriate set of input images. Weighting factors can be defined to influence the subtraction or MTC outcome.

- Oncology



Lesion characterization by reviewing vascular leakage

MR Permeability helps perform measurements, such as measuring the leakage of gadolinium chelates into the extra-vascular extracellular space (EES). The most important use relates to oncology of the prostate and brain. The MR Permeability tool calculates parametric maps like Ktrans and Kep which is related to tracer kinetics behavior.

- Oncology

Automatic review of total body MR data

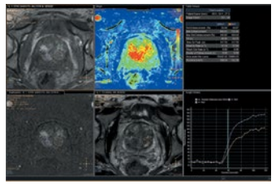
MR MobiView combines multiple images into a single full-field view to review multi-scanner acquisitions. This is easily accomplished with a single mouse-click in the IntelliSpace Portal Multi Modality Viewer or faster with a pre-defined zero-click protocol for day-to-day use. Key clinical cases are MRA run-offs, whole body metastases screening from eye-to-thighs, and total spine views to show the complete CNS. The resulting image series can be viewed, filmed, and exported using a DICOM compliant tool.

- Oncology

Enh.

4. MR clinical applications (continued)

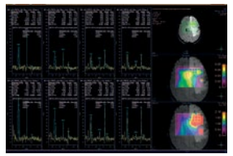
MR



Assessing lesions by reviewing blood supply characteristics

MR T1 Perfusion Analysis produces measurements of relative enhancement, maximum enhancement, time to peak (TTP), and wash-in rate. Registration of the source images in the dynamic series can remove motion sensitivity, and temporal and spatial smoothing of the input data can be performed to improve SNR. The package includes user-selected color-coding of the functional data. The maps can be viewed and stored as overlays on anatomical reference images. The opacity of the overlay is user-defined. ROI analysis is also included.

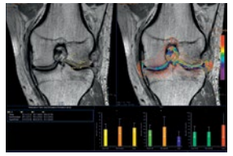
- Oncology



Understanding the metabolic changes with MR

Proton spectroscopy data can be analyzed with the **MR SpectroView** application, which enables anatomy-based automatic generation of the right processing presets, based on Enhanced DICOM data. The package provides task guidance for easy adaptations of the final processing settings.

- Oncology



Aiding in therapy planning by visualizing

MR Cartilage Assessment enables the visualization of cartilage structures integrated with color-coded T2 maps. Positioning of cartilage-shaped, layered ROIs is used to assess variation of T2 values across the cartilage depth to determine the degradation of the cartilage.

- Orthopedics

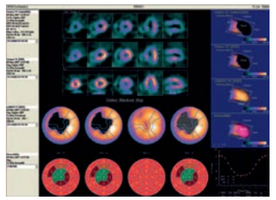
Optimizing image contrasts for multi-echo MR data

MR Echo Accumulation tool enables the calculation of new images based on the selected sum of echo times. This helps optimize cartilage contrast within high-resolution knee images. The processing provides interactive update of the results.

- Orthopedics

5. MI clinical applications

MI



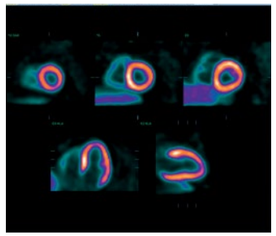
SPECT and PET cardiovascular quantification, review and reporting

Corridor4DM* 2013 is designed for advanced cardiovascular quantification and image display and includes intelligent workflow and quality assurance measures for increased confidence. Quantify myocardial perfusion, function, and viability using multiple review screens, with integrated reporting through customizable templates. Corridor4DM* v2013 also includes CT coronary calcium scoring to enhance diagnostic confidence. Now includes coronary flow reserve measurements.

* Corridor4DM is a registered trademark of Invia, LLC.

- Cardiology

Enh.



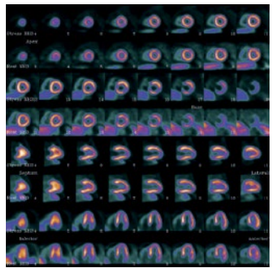
Advanced cardiac quantification

Developed at Cedars-Sinai Medical Center in Los Angeles, California, **Cedars-Sinai Cardiac Suite 2013** provides comprehensive cardiac quantification tools for gated, perfusion, and blood pool SPECT, and quantitative PET. Widely accepted by clinicians worldwide, the Cedars Sinai Cardiac Suite 2013 application provides efficient workflow for study interpretation with exclusive integration of perfusion and function.

- Quantitative gated SPECT (QGS)
- Quantitative perfusion SPECT (QPS)
- Quantitative blood-pool SPECT (QBS)
- Quantitative PET (QPET)
- CT Fusion
- DICOM Multiframe Secondary Capture (MFSC)

- Cardiology

Enh.



Cardiac analysis

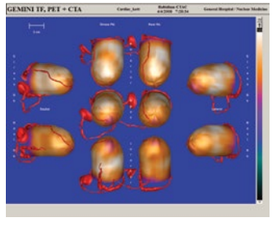
The **Emory Cardiac Toolbox (ECTb)* v4.0** provides advanced tools for cardiac SPECT and PET analysis including comparison of perfusion to viability data, display of 3D images with coronary overlays and gated 3D cine, normal limits for agent match/mismatch, and optional phase analysis for wall motion and evaluation of thickening.

- Normal limits for rubidium, ammonia, and FDG protocols
- Ability to display endocardial and epicardial edges on gated images
- Ability to add user-defined normal files to the toolbox
- Astonish normal limits for Cardiac Spect
- Enhanced user interface

* Emory Cardiac Toolbox, ECTb, HeartFusion and SyncTool are registered trademarks of Emory University.

- Cardiology

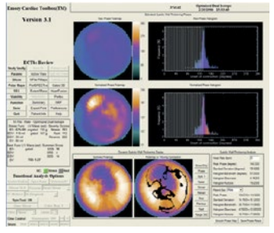
Enh.



Evaluate fused coronary anatomy

ECTb HeartFusion tool offers fusion of a patient's coronary tree from cardiac CT angiography with Molecular Imaging perfusion images to correlate stenosis with perfusion defects and identify muscle mass at risk.

- Cardiology

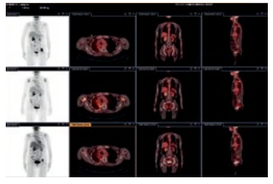


Assess cardiac mechanic dyssynchrony

ECTb SyncTool provides an objective evaluation of left ventricular (LV) dyssynchrony using phase analysis. It also provides the cardiologist with additional prognostic information that can be obtained from 3D perfusion images, such as the presence and location of scar tissue. The SyncTool review screen includes phase polar maps, phase histograms, and a summary of systolic wall thickening analysis including peak phase and standard deviation of the phase distribution.

* Emory Cardiac Toolbox, ECTb, HeartFusion and SyncTool are registered trademarks of Emory University.

- Cardiology



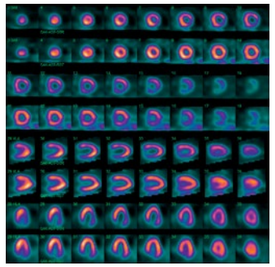
Enterprise-wide MI review

NM Viewer provides a powerful yet simple to use MI and multi-modality image review and analysis environment for clinical evaluation of MI planar, SPECT, SPECT/CT, PET/CT, and PET/MR examinations. The application offers:

- The ability to add studies to the review list and batch viewing
- MPR, MIP and fused 3D volume display
- Slab Viewer to view oblique slices
- 2D and 3D SUV measurements: SUV Body Weight, SUV Lean Body Mass, SUV Body Surface Area, and SUV Body Mass Index
- Automated 3D segmentation of lesions based on SUV value or percentage of SUV max, and the ability to export 3D contours in DICOM-RT Structure Set format to radiation therapy planning systems
- New Adaptive Threshold 3D segmentation
- A layout editor for personalized display

- Cardiology
- Oncology
- Neurology

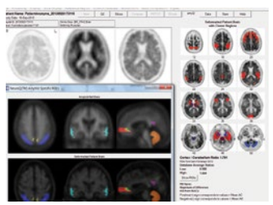
Enh.



Enhance SPECT resolution and reduce scan times

NM Astonish Reconstruction is an advanced reconstruction algorithm that uses a Philips-patented matched dual filtering technique to minimize noise and improve reconstructed image resolution and uniformity. Additionally, a CT attenuation map can be used in conjunction with Astonish to provide attenuation correction. By improving signal-to-noise ratio, it can provide equivalent image quality with shortened SPECT scan times, to achieve increased throughput, enhanced patient comfort and reduced motion-induced artifacts. Astonish Reconstruction Suite is compatible with the following Philips cameras only: CardioMD (acquisition software v2.x), Forte, BrightView, BrightView X, BrightView XCT, SkyLight and Precedence.

- Cardiology
- Bone SPECT



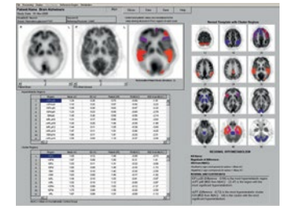
Assessing Amyloid plaque

The **NM NeuroQ Amyloid** application provides a powerful tool to assess amyloid uptake levels in various brain regions. The software automatically calculates the ratio of uptake in cortex to uptake in cerebellum and displays the regions used in the determination of the uptake in cortex and cerebellum.

- Neurology

5. MI clinical applications (continued)

MI

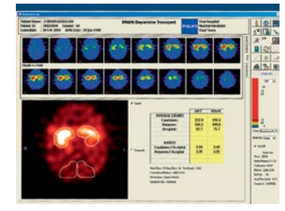


Aiding in the differential diagnosis of dementia

NM NeuroQ* provides automated analysis and quantification of FDG uptake in multiple brain regions to allow monitoring of disease progression. It automatically identifies and compares regional brain activity in an individual scan to activity values derived from a group of asymptomatic control subjects. NM NeuroQ with the EQuAL option provides a non-invasive way to determine, in advance of TLE surgery, the likelihood that a patient will become seizure-free after surgery.

* NeuroQ was developed by Dr. D. Silverman, UCLA Medical Center and is a registered trademark of Syntermed, Inc.

- Neurology (PET)



Generate new clinical insights

NM JETPack Application Suite for general Molecular Imaging includes a complementary set of organ-specific applications to meet the current – and evolving – needs of Molecular Imaging users, including endocrine, gastric, hepatobiliary, lung, neuro, renal, and whole body and bone applications. It allows calculation of regional cerebral blood flow, brain perfusion index, dopamine transport, liver perfusion, micturition and gastro-esophageal reflux. In addition, an optional IDL* developers' kit is available for development of applications.

* IDL is a registered trademark of Exelis Visual Information Solutions. Developer training required.

- General Molecular Imaging

Streamline Molecular Imaging workflow

NM Processing Applications Suite offers comprehensive analysis and processing protocols for planar and SPECT studies including renal, lung, whole body/bone, cardiac (first pass, shunt and MUGA), gastric, esophageal, hepatobiliary, and endocrine applications.

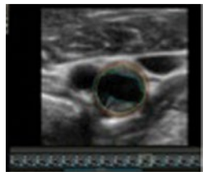
NM Processing Application Suite features Philips AutoSPECT Pro software for fast and automated SPECT reconstruction and re-orientation. It also includes a set of tools to perform daily and periodic quality assurance for SPECT cameras. It now includes new display layouts.

- General Molecular Imaging

Enh.

6. US clinical applications

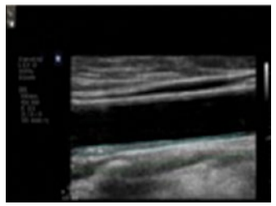
US



A novel measurement of atherosclerotic plaque volume
US Q-App Vascular Plaque Quantification (VPQ) helps you perform comprehensive volume analysis for carotid plaque; a significant indictor in cardiovascular disease. Automatically measure plaque composition throughout a captured volume, percent area vessel reduction and other characteristics using 3D technology. Results may be posted to patient exams.

- Vascular
- Radiology

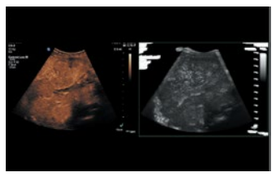
New



Help determine cardiovascular disease risk
US Q-App Intima Media Thickness (IMT) provides easy and consistent measurement of intima media thickness in carotids and other superficial vessels. Report IMT values and appended to patient reports.

- Vascular
- Radiology

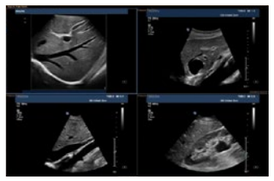
New



Enhanced vessel conspicuity
US Q-App Microvascular Imaging (MVI) supports you in mapping contrast agent progression with contrast enhanced ultrasound (CEUS) for tumor assessment and monitoring.

- Vascular
- Radiology
- Oncology

New



View ultrasound with multi-modality exams on the same workstation
US Viewing and analytics are now available from a multi-modality workstation environment. Review high-resolution single and multi-frame images in collaboration with other modalities. With US Viewing (in Multi Modality Viewing), clinicians can easily perform measurements, annotations, zoom anatomy and adjust window/levels controls. Edited images can be appended to the patient's exam for complete documentation. Multi Modality Viewing on IntelliSpace Portal 7.0 supports additional Q-App tools for advanced quantification of ultrasound data.

- Radiology
- Oncology
- Internal medicine

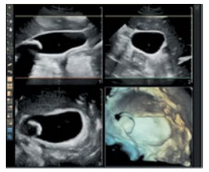
Perform advanced analysis of 2D, color, and Contrast Enhanced Ultrasound data
The Q-App Region of Interest (ROI) provides specialized tools for spatial and temporal analysis of regions of interest in 2D, color and [1]contrast enhanced ultrasound exams (CEUS). This Q-App also provides basic 2D measurement tools (distance, area) as well. For CEUS applications, multiple motion compensated regions can be defined for contrast bubble analysis to generate wash-in/wash-out curves for lesion blood flow assessment.

- Radiology
- Oncology
- Internal medicine

[1] Ultrasound contrast agents are approved for use in Left Ventricular Opacification (LVO) applications only in the US.

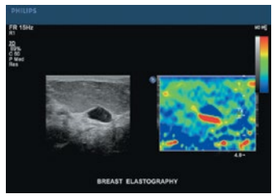
6. US clinical applications (continued)

US



Perform advanced visualization and quantification of ultrasound volume
US Q-App GI 3DQ is designed to provide advanced viewing, manipulation, and quantification of 3D data sets. Users can perform advanced functions such as MPR interrogation, iSlice tomographic imaging, and volume rendering. Clinicians can also perform volumetric measurements using multiple methods including semi-automated tools. Results generated from this tool can be appended to the patient's exam for complete documentation.

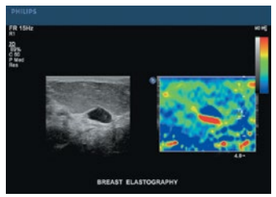
- Radiology
- Oncology
- Internal medicine



Explore new tissue stiffness measurements
US Q-App Elastography Anaysis (EA)[2] allows you to strain elastography quantification of tissue deformation based on an elastogram. Calculate and display the strain rate and total strain, size compare between two ROIs, and strain ratio; results may be appended to patient reports.

- Radiology
- Oncology
- Internal medicine

New



Explore new tissue stiffness measurements
US Q-App Elastography (EQ)[3] allows you to strain elastography analysis of tissue deformation based on an elastogram. The applications can be used to size compare between two ROIs; results may be appended to patient reports.

- Radiology
- Oncology
- Internal medicine

New

[2] Only available for sale in the US
[3] Not available for sale in the US

The Philips IntelliSpace Portal 7.0 delivers advanced analysis tools to increase diagnostic confidence, while streamlining your workflow and reducing complexity. It's built to work with your hospital environment in a "workstation-less" approach.

Speed your time to results
Time saving features like zero-click segmentation, image preprocessing, fetching of priors, and guided workflows are just some of the tools which accelerate time from image acquisition to diagnosis.

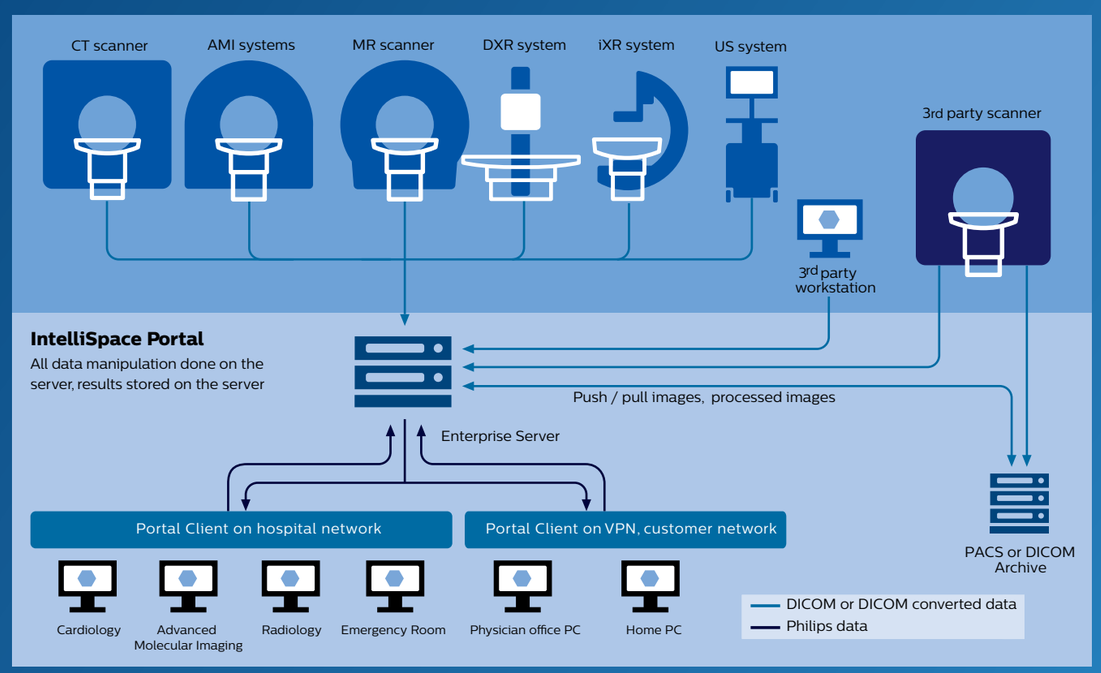
PACS and beyond

The IntelliSpace Portal 7.0 features proven open interfaces for connecting with Philips PACS and PACS systems[1] from other vendors, allowing radiologists to review and complete entire cases in one session, without leaving their chairs.

[1] Requires integration work with your PACS vendor

Customized reports in minutes
Reporting provides tools and and multi-media capabilities to communicate with referring physicians easily. In just minutes you can create a customized report for a comprehensive multi-modality workup that includes multiple patient findings, graphs, and tables.

Clinical results can be ported directly into PACS or RIS using HL7 and DICOM. Save key images, notes, and tables directly to your reports, and combine many patient findings into a single patient level report. The IntelliSpace Portal 7.0 is now integrated with PowerScribe360 to further enhance your reporting capabilities.



The IntelliSpace Portal is built to work with your hospital environment - whether you have chosen to adopt a "workstation-less" approach or continue to work with modality workstations.

7. Enhance workflow

Streamline your workflow with KnowledgeScape clinical education
Access continually updated clinical education materials including step-by-step instruction on how to utilize each application, clinical videos, whitepapers, and other materials. Training materials have been adapted to accommodate various educational styles, and can be accessed either through the main screen or within any application on the IntelliSpace Portal 7.0 for all users of the system.

The world is your community
We recognize the value in bringing users together to exchange clinical expertise and share best practices. The NetForum community is a global Internet meeting place where Philips users from around the world can collaborate online any time and any place they choose. Facilitate your own innovation and personal growth by joining thousands of other Philips users in the NetForum community.

Benefit from the support of expert users around the globe
- Access product training, technical resources, case studies, scientific presentations, web seminars, whitepapers, and abstracts
- Share protocols and ExamCards
- Gain upgrade advice

A proven performer
The IntelliSpace Portal is continually ranked #1 in KLAS for the "Top 20 Best in KLAS[1] Awards: Software & Professional Services" for Advanced Visualization. In a recent KLAS report called "Advanced Visualization 2013: How Advanced Is It?" The Philips IntelliSpace Portal has received the highest score when it comes to overall performance. It may be operated on independent servers or utilizing your own internal infrastructure.

[1] KLAS is an independent, leading research firm with the mission to improve healthcare technology delivery by honestly, accurately, and impartially measuring vendor performance for their provider partners.

8. Real-time collaboration

Web Collaboration
The IntelliSpace Portal Web Collaboration[1] option provides the ability to share image results and views with others directly from your IntelliSpace Portal 7.0 applications using most standard web browsers. The Portal Web Collaboration is a zero-footprint, interactive viewing environment that requires no proprietary software.

Live views, lively discussions
Users can initiate real-time collaboration sessions via instant-invitation or by scheduling using standard PC scheduling tools. When in the collaboration session, users share the same live view of the image in the web-based image viewer and are able to interact with this shared image view using various tools for annotation and control, allowing for shared education between specialties and increased diagnostic confidence.
Collaboration opportunities include critical care reporting, remote consultation, and peer conferencing.

[1] Web Collaboration enables viewing and sharing with iPad and smartphone devices – not intended for diagnosis. iPad is a registered trademark of Apple Corporation.

Allura Interventional Suite Integration
Unique Interventional X-ray integration automatically retrieves the patient data on the IntelliSpace Portal 7.0, streamlining the interventionalist's workflow to review advanced diagnostic imaging in the interventional suite. Once patients get scheduled on the Philips Allura Interventional system, this integration will trigger the IntelliSpace Portal 7.0 to automatically launch relevant applications with the patient data on a client located in the interventional suite for review of previously performed analysis before treating a patient.

9. IT Enterprise

Connect your entire radiology department with ONE solution

The IntelliSpace Portal 7.0 turns change into an advantage – and helps your enterprise realize the full potential of advanced visualization. As a server-based solution, it's easy to use, manage, and upgrade. Everyone works with the same software version, and all applications and licenses are handled in one solution.

Rich patient demographics
This feature enables the IntelliSpace Portal 7.0 to maintain the rich information about patient demographics and keep it in sync with the latest information from HIS/EMR systems. Patient Information Reconciliation is also supported in IntelliSpace Portal 7.0.

Rich integration
The IntelliSpace Portal 7.0 integrates with your RIS and EMR with the ability to export a Patient Report, including tables and graphs. In addition, the IntelliSpace Portal 7.0 can receive HL7 order information (ORM) so the system can start pre-fetching priors based on the list of patients scheduled for today or tomorrow. It is now possible to launch the patient context from the EMR when the clinician is reading an exam via the IntelliSpace Portal 7.0.

Tracking and management
To help optimize usage, the IntelliSpace Portal 7.0 is equipped with a web-based set of tools to monitor and administer your solution. Critical components of the system are monitored and alerts can be configured to prevent system performance degradation.

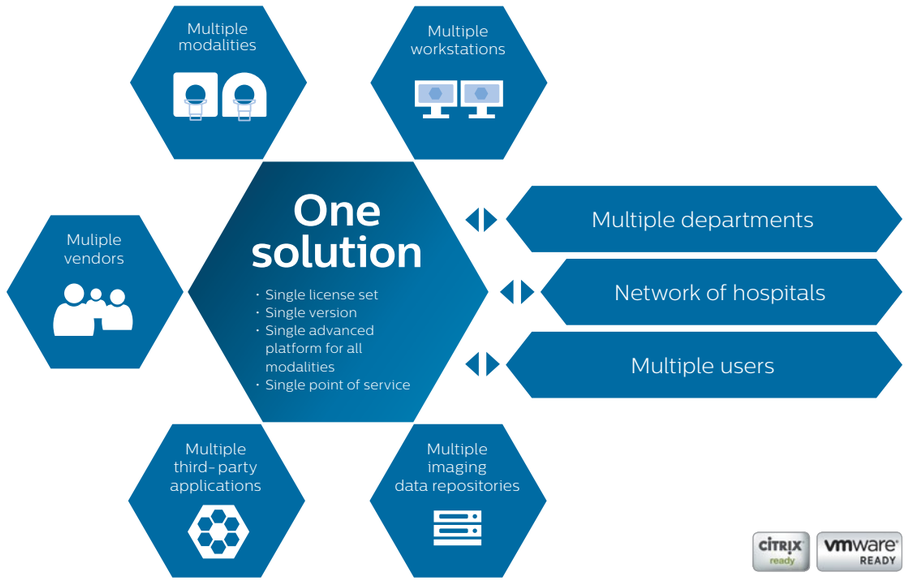
Virtualization
The IntelliSpace Portal 7.0 now has a software-only model that allows the solution to be deployed at your IT Infrastructure. This allows for optimization of your system by increasing utilization and flexibility of your hardware.

VMware certification enables the IntelliSpace Portal to run service-side virtualization in customer or Philips owned equipment.
The IntelliSpace Portal 7.0 is now Citrix®-ready, which allows the solution to run on server-side virtualization, being deployed throughout the enterprise via a virtualized client app.

Report integration to RIS/EMR
With this release, clinicians can export patient reports complete with tables and graphs generated by the IntelliSpace Portal 7.0.

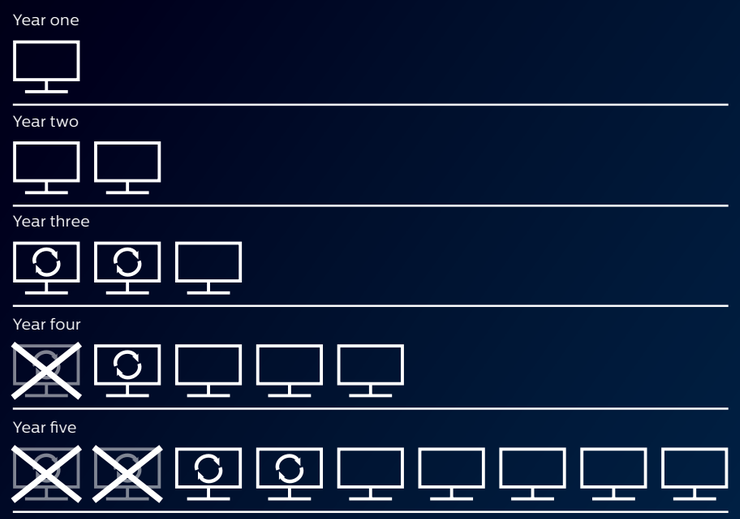
Pre-fetch of priors based on scheduled patients
The IntelliSpace Portal 7.0 can now receive HL7 order information (ORM) so the system can start pre-fetching priors based on the list of patients scheduled for today or tomorrow.

Launch EMR patient data in the IntelliSpace Portal
Patient context can now be launched from the EMR when the clinician is reading an exam via the IntelliSpace Portal 7.0.



Workstations vs. the IntelliSpace Portal 7.0

Simplified management with an integrated solution



Separate workstations
- Technological developments and expansion of service require new workstations
- Dedicated modality-based workstations are used for single purpose on fixed locations
- Workstation can become obsolete and have to be managed and upgraded separately

One portal
- The IntelliSpace Portal 7.0 is a server-based solution, making it easy to use, manage, and upgrade
- All users work with the same software version
- Add new modalities, clinical applications, and users over time

10. Enterprise scalability

Unleash the full potential of working as one across your network with IntelliSpace Portal Enterprise. This solution connects multiple sites to connect sites and help reduce resource planning complexity. And although it can be difficult to predict how and when your organization will change down the road, IntelliSpace Portal Enterprise prepares you for future growth. It quickly and easily adapts when more users and sites come online without interrupting busy workflows.

Matched to your growth
The Enterprise solution can significantly scale up the number of concurrent IntelliSpace Portal. It can also create common access and workflows by joining separate geographical sites.

Do more with one worklist
Enhance your efficiency gains and help reduce duplicate testing. The Enterprise server creates a unified global worklist to give you the power to see all of a patient's prior studies, which contains all studies from all Portal servers.

Say goodbye to downtime
The IntelliSpace Portal 7.0 offers high availability – it's there when users need it. To prevent downtime, the solution features a failover system. Should one IntelliSpace Portal server from the single site "farm" go down, another server automatically takes over. The IntelliSpace Portal 7.0 continues to work using the remaining portal server's resources.

Excellent performance at heavy loads
The IntelliSpace Portal 7.0 balances the load to deliver exceptional performance during use. Users are automatically routed to the best portal server on-site based on data type and server load.

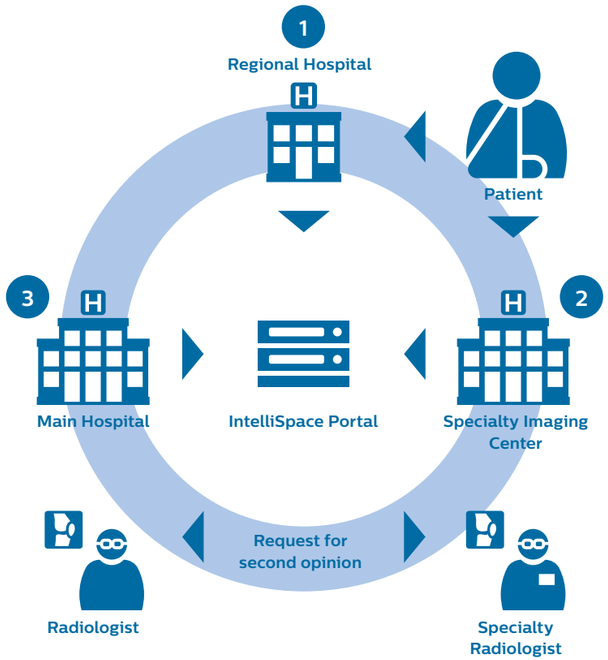


Image sharing across sites
Studies from remote sites can be pre-fetched when they're needed thanks to the global worklist.

- Based on the RIS, the patient's prior studies from Sites 1 and 2 are pre-fetched. The radiologist at Site 2 can instantly start his or her diagnosis at the main hospital, Site 3.
- A second opinion is requested. The specialty radiologist at Site 2 simultaneously opens the case to discuss the diagnosis with the radiologist at Site 1.

11. Continuous evolution

The Philips IntelliSpace Portal 7.0 protects your investment from day one through continuous software updates, hardware upgrades, and staff training – reducing lifecycle cost and concerns about future upgradeability.

What's in continuous evolution for you?
RightFit Service Agreements protect your investment in the IntelliSpace Portal 7.0 in multiple ways. Through upgrades and updates and continuous training of your staff, for example, it adjusts to the growing needs of your hospital – at the lowest possible cost.

Stay on the cutting edge with no hassle
The IntelliSpace Portal 7.0 is updated continually through the server, providing desirable simplicity and scalability while reducing the need to acquire multiple workstations by modality and specialty over the years. It can reach throughout the enterprise as an application server interfacing with PACS.

Remain at the forefront of the industry
Tomorrow's already planned for with comprehensive Philips RightFit Service Agreements. They provide access to a steady stream of innovations, such as new features, functions, applications, modalities, and workflow efficiencies, that help expand clinical capabilities. Clinical education and training services show how to make the most of the solution from the start. Professional support teams are available for rapid telephone and remote support.

RightFit agreements also allow the IntelliSpace Portal 7.0 to perform at its peak. You'll automatically receive software updates – and there's just one system to update. At the same time, hardware upgrades assist you in reaping the rewards of these advances.

Invest in a long-term relationship
When you choose Philips, you're investing in a relationship that includes open communications, constant innovation, and expert consultation. We're focused on helping you realize the full clinical and operational potential of the IntelliSpace Portal 7.0 solution in your organization. Philips delivers everything from clinical guidance, technical phone support, and remote problem resolution directly from experts at our Customer Care Help Desk to on-site support and implementation services, business improvement consulting, and more.

Obsolescence protection	Pace of technology is very high, but your (high) investment will not become obsolete after 2-3 years
Financial benefits	**Lowest total cost of ownership** for dealing with rotation of staff (training), pace of technology (software and hardware upgrades), and support **Predictable costs** operationalized through budgets instead of capital expenditure
Clinical and workflow advancement	**Continuous evolution of clinical depth** in applications, workflow performance (speed and power), and **IT integration**

Please check with your local market representative about Other Service Maintenance Agreements if RightFit is not yet available in your market. For additional details, please refer to the terms and conditions applicable to your market.

11. Continuous evolution

Services are made with you in mind. Because our redesigned and customized service offering for IntelliSpace Portal 7.0 is based on customer insight, it delivers what matters to you.

Key components of continuous evolution with our service offering
Make the most of your investment in your advanced visualization and analysis solution with our all-inclusive RightFit Service Agreement.

Continuous evolution	**Software upgrades** – every 12-18 months, customers receive a new version of the IntelliSpace Portal software (platform, all purchased applications, added base software) **Software upgrade installation** – Philips will provide for either on-site or remote installation of the software upgrade. The following services are covered under the Software Upgrade installation coverage: project management, installation of software, installation of new hardware, time and materials All Philips hardware (PACS and modalities) will be connected The IntelliSpace Portal will be fully prepared for connectivity to third-party PACS and modalities **Software updates** – all software updates are included (mandatory, regulatory, failure) **Software updates installation** – Philips will provide for either on-site or remote installation of the software update. The following services are covered under the Software Update installation coverage: project management, installation of software, time, and materials All Philips hardware (PACS and modalities) will be connected The IntelliSpace Portal will be fully prepared for connectivity to third-party PACS and modalities **Hardware support** – customers receive remote and on-site hardware support
Continuous education	**Continuous education** – customers receive necessary clinical education as part of the service offering, and online IntelliSpace KnowledgeScape education
Continuous support	**Remote Service** – customer helpdesk service providing telephone and remote resolution of clinical and technical issues

12. System specifications and requirements

IntelliSpace Portal 7.0 DX, HX, EX, and RBL configurations

Feature	Specification
Server hardware specifications	Dell™ PowerEdge T610/T620 Tower Chassis or R620 Rack Mounted
Server software specifications	• Windows Server 2008 R2 64 bit • Philips IntelliSpace Portal server software, including: – Proprietary Portal Server Application – Clinical application usability and IT Dashboard – IntelliSpace Portal management application for managing user database and additional settings • McAfee® antivirus software • Networking – TCP/IP protocol only – Gigabit network card(s) – Static IP address • Security – No unused Windows services running – No shared drives – Windows access control defined by client (hospital site IT) – Encrypted users/groups database file – User management application available only to defined Portal administrators – Encrypted transfer over the network of username and password information – Event logging – Windows firewall • Administrative access through server console or remote desktop • To utilize VMware, refer to server specification in the VMware whitepaper. You can request this document from your local sales representative.
Server power requirements	Dual power supplies for 120-240V AC
Network requirements	• Dedicated 1 Gigabit/S connections between IntelliSpace Portal servers (in case of a multi-server deployment) • LAN Network bandwidth 100 Mbit/S and above (1 Gigabit/S or above recommended) • VPN access (optional) • Domain based network environment (recommended)

Server Configuration	Concurrent User Support
DX	Designed to support a single department of up to 5 concurrent users
HX	Designed to support hospital-wide requirements of up to 10 concurrent users
EX	Designed to support the hospital enterprise; up to 15 concurrent users

Resource Based Licensing Option[1]

Tailor your IntelliSpace Portal solution to your specific needs with resource-based licensing (RBL). The RBL option allows you to specify how many users may access your system from any PC, at the same time (from two to 15 users), to maximize the value of your Philips advanced visualization and analysis solution. Each added user will be able to benefit from the full complement of your IntelliSpace Portal.

Feature	Specification
Client hardware requirements[2]	• Screen resolution: 1280 x 1024 or above (recommended) or 1024 x 768 (minimum) • Minimum screen resolution for MI applications: 1280 x 1024 – Up to 3 megapixel monitors are supported – No support for monochrome or grayscale-only monitors – 96 DPI – 24 bpp (or higher) color depth monitors – Dual monitor capability requires adequate support of client display card and driver • Processor (CPU) – Minimum: Intel Core 2 Duo 1.8 GHz /Intel Quad core 1.6 GHz/AMD Athlon 64 1.8 GHz; – Minimum for MI Apps and/or when other applications are running in parallel (e.g. PACS clients): Intel Core 2 Quad 2.4 GHz / AMD Phenom II X3 Triple core 2.8 GHz – Recommended: Intel Core 2 Quad 2.4 GHz / AMD Phenom II X3 Triple core 2.8 GHz – or equivalents/higher • Memory (RAM) – Minimum: 2GB RAM – Minimum: 4GB RAM for clients also running PACS – Minimum for MI Applications and/or when other applications are running in parallel: 4 GB RAM – Recommended: 4 GB RAM or above • Network adapter speed: 100 Mbit/s or above • Free disk space on C: drive: 3 GB or higher: – Additional 5 GB of free disk space required to burn DVDs • 3-button mouse

Feature	Specification
Client software requirements	• Supported Operating Systems: – Windows XP®[3] (32 and 64 bit) with SP2 or above – Windows Vista®[3] (32 and 64 bit) – Windows® 7 (32 and 64 bit) – Windows® 7 and Windows Vista® require an administrative account for initial installation – Windows® 8[3] (32 and 64 bit) The new versions of 3rd party cardiac applications support Windows 8, also NeuroQ 3.6 with proper settings. – .NET® framework 4 or higher • Ability to add the IntelliSpace Portal to the firewall exception list • Additional software recommended (for optional functionality): – Adobe Acrobat Reader (for Reports and Help) – Adobe Flash Player (for online training applications) – Windows Media Player 9.0 or above (for saving movies) – IMAPIv2 (for burning CD/DVD) – IE 8.0 or Firefox 7 or Chrome 9
Recommended remote or home connection specifications	• Network bandwidth and latency: 5 Mbit/s or above download speed, 512Kbit/s or above upload speed, with latency <20ms • Network bandwidth and latency for MI applications: 10 Mbit/s or above download speed, 1Mbit/s upload speed with latency < 10ms • Network bandwidth/latency for MI 3rd Party Applications (AutoQuant, Corridor4DM[1] v2013, ECTb, NeuroQ): 100 Mbps download/10 Mbps upload with <10ms latency

[1] Note: The concurrency thresholds are based on average usage estimations. The actual number of concurrent users that may use the system at any given time is limited by the available system resources and may vary. Server hardware may differ depending on selected number of users. Consult your local Philips sales representative for more information.

[2] Web Collaboration enables viewing and sharing – not intended for diagnosis

[3] Q-App applications do not support Windows XP (64 Bit), Windows vista (32 & 64 bit), Windows 8

IntelliSpace Portal 7.0[1] – Clinical applications portfolio

Feature	Option	
Standard features and functionality	• Multi Modality Viewing (CT, AMI, MR, US) • Volume rendering • CRT Endo • VIP, surface MIP, MIP, minMIP, and average displays • Full slab review capabilities • Multiplanar reformations in curved, paddlewheel, and MasterCut • Full 2D capabilities, including compare, pan, zoom, scroll, region of interest (ROI), and annotation • High-priority login for emergencies, regardless of network traffic • Lossy or lossless compression • Overall system enhancement; Collaboration Viewer	
Multi-modality applications	⬢ Multi Modality Advanced Vessel Analysis (AVA) – Stenosis ⬢ Multi Modality Tumor Tracking ⬢ Multi modality applications support (iXR Viewing, iXR integration, DXR Viewing) • Ultrasound Viewing	
CT clinical applications	⬢ CT Brain Perfusion – CT Brain Perfusion Time Insensitive Maps (Assist) ⬢ CT Comprehensive Cardiac Analysis (CCA) – CT-MI MPI Cardiac Fusion – CT Myocardial Defect Assessment – CT Cardiac Plaque Assessment ⬢ CT Advanced Vessel Analysis (AVA) Stent Planning • CT Calcium Scoring ⬢ CT Pulmonary Artery Analysis[6] • CT Cardiac Viewing • CT EP Planning ⬢ CT TAVI Planning	• CT DMP • CT Dental Planning • CT Body Perfusion (Functional CT) ⬢ CT COPD • CT Lung Nodule Assessment (LNA) – CT Lung Nodule CAD[3] • CT Virtual Colonoscopy with Perspective Filet View – CT Virtual Colonoscopy CAR[3] – CT Virtual Colonoscopy Electronic Cleansing[3] • CT Liver Analysis • CT Bone Mineral Analysis • CT Acute MultiFunctional Review • Enhanced Zero-click Performance (pre-processing)
MI clinical applications	⬢ NM Review • NM JETPack Application Suite ⬢ NM Processing Application Suite (includes Philips AutoSPECT and JETPack v2.5 applications – NM Astonish Reconstruction – NM ExSPECT II Vantage ⬢ Cedars-Sinai Cardiac Suite 2013[2]: ⬢ AutoQUANT SPECT[2] ⬢ NM (PET and SPECT) AutoQUANT[2] ⬢ NM/CTA Cedars Fusion[2] ⬢ Cedars MFSC[2] ⬢ Corridor4DM 2013 – SPECT[2] ⬢ Corridor4DM 2013 – NM (PET and SPECT)[2] ⬢ Corridor4DM 2013 – CT Option[2] ⬢ Corridor4DM CFR	⬢ Emory Cardiac Toolbox (ECTb)[5] v4.0 – SPECT ⬢ Emory Cardiac Toolbox (ECTb)[5] v4.0 – PET ⬢ Emory Cardiac Toolbox (ECTb)[5] v4.0 – NM (PET and SPECT) ⬢ Emory Cardiac Toolbox (ECTb)[5] v4.0 – HeartFusion • NM NeuroQ – NM EQual – NeuroQ Amyloid • IDL Developers' Kit • NM Enhanced DVD Viewer
MR clinical applications	• MR T2* (Neuro) Perfusion ⬢ MR Perfusion Diffusion Mismatch • MR Diffusion – MR FiberTrak • MR T1 Perfusion • MR Subtraction ⬢ MR MobiView • MR Cartilage Assessment • MR Echo Accumulation	• MR Cardiac – MR Cardiac Temporal Enhancement – MR Cardiac Whole Heart ⬢ MR Cardiac Functional Analysis ⬢ MR Spatial Enhancement ⬢ MR QFlow • MR SpectroView ⬢ MR IViewBOLD • MR Permeability
US clinical applications	• US Q-App Region of Interest (ROI) • US Q-App General Imaging 3D Quantification (GI 3DQ) ⬢ US Q-App Vascular Plaque Quantification (VPQ)	⬢ US Q-App Intima Media Thickness (IMT) ⬢ US Q-App Microvascular Imaging (IMV) ⬢ US Q-App Elastography Quantification (EQ)[3] ⬢ US Q-App Elastography Analysis (EA)[4]

[1] The minimum requirements specifications are the estimated minimal specifications required to run the IntelliSpace Portal client. If your computer has less than the "minimum requirements", you will not be able to properly install or use the IntelliSpace Portal client. Actual requirements will vary based on the IntelliSpace Portal application you run and other software applications you run on the system in parallel with the IntelliSpace Portal client (e.g. PACS/RIS, client, Dictation software, etc.) For optimal performance of the IntelliSpace Portal client and typically on clients where additional applications are expected to run in parallel to the IntelliSpace Portal client itself (e.g. PACS/RIS client, Dictation software etc.), clients are required to be equipped with stronger HW specifications beyond the minimum specifications (RAM and Processor) to allow optimal performance of IntelliSpace Portal client in parallel to other software applications running on the client system.

[2] Not available for sale in all countries. Please check for availability in specific countries.

[3] Not available for sale in the US

[4] Only available for sale in the US

[5] Emory Cardiac Toolbox, ECTb, HeartFusion and SyncTool are registered trademarks of Emory University.

[6] CAD functionality not available for sale in the US.

Networking and DICOM

- The IntelliSpace Portal 7.0 complies with IHE standards. DICOM 3.0 functionality includes:
- Storage service class as a user
- Storage service class as a provider
- Query/retrieve service class as a user
- Print service class as a user
- Storage commitment service class as a user
- Archiving and networking of images in DICOM 3.0 protocol/format for:
  - Computed Tomography (CT)
  - Magnetic Resonance (MR)
  - Molecular Imaging (MI)
  - Computed radiology
  - Radiography and fluoroscopy (R&F)
  - Ultrasound (US)
  - Interventional X-ray (iXR)
  - Digital X-ray (DXR)

DICOM Web

The IntelliSpace Portal 7.0 uses
- HTTP
- HTTPS (using Client Certificates)

to facilitate the retrieval of DICOM studies, series, and images that employ the DICOM WADO-RS standard.

Healthcare IT integration

The IntelliSpace Portal 7.0 supports integration with EMR and RIS systems for incoming HL7 ADT and Order (ORM) messages. It can also export clinical findings and measurements to the EMR, RIS, and reports in:
- HL7 CDA format
- HL7 ORU format
- HL7 CDA/ORU with an embedded PDF report

The IntelliSpace Portal 7.0 can also integrate with the PowerScribe360 dictation system using PowerScribe API.

Your lifelong education

The Philips Learning Center offers more than 300 self-directed learning activities, accredited for healthcare professionals, and available online virtually anywhere, anytime. With content focused on clinical applications, management, concepts, and principles using different modalities, there are educational materials available for the entire department. More than 120,000 healthcare professionals use the Philips Learning Center for their continuing education requirements.

KnowledgeScape clinical education

This platform provides access to a continually updated database of clinical education materials including step-by-step instruction on how to utilize each application, clinical videos, white-papers, and other materials. Training materials have been adapted to accommodate various educational styles, and can be accessed either through the main screen or within any application on the IntelliSpace Portal for all users of the system.

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Environmental	DX/HX/EX with Dell PowerEdge T620/R620 servers
Operating temperature	10°C – 35°C (50°F – 95°F)
Storage temperature	-40°C – 65°C (-40°F – 149°F) with a maximum temperature gradation of 20°C per hour
Operating relative humidity	10% to 80% relative humidity
Storage relative humidity	5% to 95% at a maximum wet bulb temperature of 33°C (91°F); atmosphere must be condensing at all times
Operating vibration	0.26 Grms at 5Hz to 350Hz in all orientations
Storage vibration	1.87 Grms at 10Hz to 500Hz for 15 minutes
Operating shock	Half sine shock in all operational orientations of 31G ± 5% with a pulse duration of 2.6ms ± 10%
Storage shock	Half sine shock on all six sides of 71G ± 5% with a pulse duration of 2ms ± 10%; square wave shock on all six sides of 27G with velocity change at 235 in/sec or greater
Operating altitude	-15.2m to 3048m (-50 ft to 10,000 ft)
Storage altitude	-15.2m to 12,000m (-50 ft to 39,370 ft)

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Find out more about
Philips IntelliSpace Portal

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