All your advanced analysis needs
One integrated solution
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: Workflows 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, DXR, and DXR imaging 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, DXR, 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.
Multi Modality Tumor Tracking

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 10
- RECIST 11
- 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 a real time-saver for the radiologist.”

J. Louis Rankin
Franciscan St. Francis Health, Indianapolis, USA

Multi Modality Advanced Vessel Analysis (AVA)

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

77% time savings

* Compared to the Philips EBW v4.x workstation
3. CT clinical applications (continued)

### 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
- Cardiology
- Cardiology

### 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 epimural 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 3D and using dynamic cine mode. New added calculations include: regurgitation volume and fraction index, (P/E) Early and Late (active and passive) filling volumes, Early/Late LV filling ratio.

- Cardiology

### 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 long axis planes. The axis 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

### 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 Stop 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, with robust, interactive slice-browsing tools for review purposes, cine mode for cardiac axis 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 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 of 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.

- Cardiology
- Neurology
- Surgery

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**3. CT clinical applications**

- Cardiology
- Surgery
- Cardiology
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3. CT clinical applications (continued)

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.

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.

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 hepatotectomy for RF ablation and surgery planning.

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.

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.

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.

One application for fast systematic review
CT Advanced 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

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.

Guided pulmonary embolism discovery
CT Pulmonary Artery Analysis 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.

Track lung disease
CT COPD helps quantitatively 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.

New
Enh.
Enh.
Enh.
Enh.
Enh.
Enh.
Enh.
4. MR clinical applications

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.

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.

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.

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.

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.

Brain activation analysis
The MR VoidBOLD package facilitates off-line functional BOLD MR 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.

Reviewing brain tissue viability
MR T2* (Neuropath) 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 (rCBV), time to peak (TTP), time of arrival (TO) and relative Cerebral Blood Flow (rCBF). 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. RIR analysis can be performed, and an arterial input functions (AIF) can be defined if required.

Detailed review of diffusion indicated lesions
MR Diffusion tool enables analysis of diffusion characteristics such as ADC, wADC, 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.

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.

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.

Automatic review of total body MR data
MR MobView 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.
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.

**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.

**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.

**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.

**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.

**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)**

**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
- Astorish normal limits for Cardiac Spect
- Enhanced user interface

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

**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.
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 EQA/L option provides a non-invasive way to determine, in advance of TLE surgery, the likelihood that a patient will become seizure-free after surgery.

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

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.

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.

* * is a registered trademark of Exelis Visual Information Solutions.

Assess cardiac mechanical 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.

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.

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

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 indicator 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.

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.

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.

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.

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 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.

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 MRI integration, 3D slice 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.

Explore new tissue stiffness measurements
US Q-App Elastography Analysis (EA) 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.

Explore new tissue stiffness measurements
US Q-App Elastography (EQ) 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.

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

(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 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 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 report, 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.

(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.

**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® 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.

**Customized reports in minutes**
Reporting provides tools 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 report, 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.
Web Collaboration
The IntelliSpace Portal Web Collaboration 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.

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 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 server-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.

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.

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.

Multiple workstations
Multiple modalities
Multiple third-party applications
Multiple imaging data repositories
Network of hospitals
Multiple users
Multiple vendors
Multiple advanced platforms for all modalities
Single license set
Single version
Single point of service

8. Real-time collaboration
Workstations vs. the IntelliSpace Portal 7.0
Simplified management with an integrated solution

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

2. 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.

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 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.

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.

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.

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.

Continuous education
Continuous education
– customers receive necessary clinical education as part of the service offering, and online IntelliSpace KnowledgeScape education

Remote Service
– customer helpdesk service providing telephone and remote resolution of clinical and technical issues

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

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.

Software upgrades — every 12-18 months, customers receive a new version of the IntelliSpace Portal software (platform, all purchased applications, added base software)
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 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.

Stay 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.

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.

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.

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.
12. System specifications and requirements

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

Server hardware specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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</thead>
<tbody>
<tr>
<td>Dell® PowerEdge T610/T620 Tower Chassis or</td>
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<tr>
<td>R620 Rack Mounted</td>
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<tr>
<td>Windows Server 2008 R2 64 bit</td>
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<tr>
<td>Philips IntelliSpace Portal server software,</td>
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<tr>
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<tr>
<td>Dashboard</td>
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<tr>
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<tr>
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Server power requirements

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<tr>
<td>Dual power supplies for 120-240V AC</td>
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Network requirements

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<td>IntelliSpace Portal servers (in case of a multi-</td>
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<tr>
<td>server deployment)</td>
<td>server deployment)</td>
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<tr>
<td>LAN Network bandwidth 100 Mbit/S and above</td>
<td>LAN Network bandwidth 100 Mbit/S and above</td>
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<td>(1 Gigabit/S or above recommended)</td>
<td>(1 Gigabit/S or above recommended)</td>
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<tr>
<td>VPN access (optional)</td>
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<tr>
<td>Domain-based network environment (recommended)</td>
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Server Configuration Concurrent User Support

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<tr>
<td>up to 5 concurrent users</td>
<td>5 concurrent users</td>
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<tr>
<td>HX Designed to support hospital-wide</td>
<td>HX Designed to support hospital-wide requirements</td>
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<tr>
<td>requirements of up to 10 concurrent users</td>
<td>of up to 10 concurrent users</td>
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<tr>
<td>EX Designed to support the hospital</td>
<td>EX Designed to support the hospital enterprise,</td>
</tr>
<tr>
<td>enterprise, up to 15 concurrent users</td>
<td>up to 15 concurrent users</td>
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</table>

Resource Based Licensing Option

Take 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 solutions. Each added user will be able to benefit from the full complement of your IntelliSpace Portal.

Client hardware requirements

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</table>

Recommended

<table>
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<tr>
<th>Feature</th>
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<tbody>
<tr>
<td>Network bandwidth/latency: 5 Mbit/s or above</td>
<td>Network bandwidth/latency: 5 Mbit/s or above</td>
</tr>
<tr>
<td>download speed, remote or home</td>
<td>download speed, remote or home</td>
</tr>
<tr>
<td>connection</td>
<td>connection</td>
</tr>
<tr>
<td>Network bandwidth and latency for MI</td>
<td>Network bandwidth and latency for MI</td>
</tr>
<tr>
<td>applications: 10 Mbit/s or above specifications</td>
<td>applications: 10 Mbit/s or above</td>
</tr>
<tr>
<td>Network bandwidth/latency for MI 3rd Party</td>
<td>Network bandwidth/latency for MI 3rd Party</td>
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<tr>
<td>Applications (AutoQuant, Corridor4DM(2),</td>
<td>Applications (AutoQuant, Corridor4DM(2),</td>
</tr>
<tr>
<td>v2013, ECTb, NeuroQ) 100 Mbps download/10</td>
<td>v2013, ECTb, NeuroQ) 100 Mbps download/10</td>
</tr>
<tr>
<td>Mbps upload/download with latency = 10ms</td>
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</tbody>
</table>

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)
- IMAPIc2 (for burning CD/DVD)
- IE 8.0 or Firefox 7 or Chrome 9

Additional software recommended (for optional functionality)

- Network bandwidth/latency for MI 3rd Party Applications (AutoQuant, Corridor4DM(2), v2013, ECTb, NeuroQ) 100 Mbps download/10 Mbps upload with <10ms latency

Note: The concurrency thresholds are based on average usage estimates. 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.

Web Collaboration enables viewing and sharing – not intended for diagnosis

Q-App applications do not support Windows XP (64 Bit), Windows vista (32 & 64 bit), Windows 8
Multi-modality applications • Multi Modality Advanced Vessel Analyses (AVA) – Stenosis
• Multi Modality Tumor Tracking
• Multi modality applications support (XR Viewing, 3D Integration, DXR Viewing)

CT clinical applications • CT Brain Perfusion
• CT Brain Perfusion Time Intensive Maps (Assist)
• CT Comprehensive Cardiac Analysis (CCA)
• CT Cardiac Plaque Assessment
• CT Advanced Vessel Analysis (AVA) – Stress Planning
• CT Pulmonary Artery Analysis (PAA)
• CT Cardiac View
• CTP Planning

MR clinical applications • MR T2* (Hemorrhage) Perfusion
• MR Perfusion Diffusion Mismatch
• MR Diffusion
• MR Fiber/Tract
• MR TI Perfusion
• MR Subtraction
• MR Module
• MR Cartilage Assessment
• MR Echo Accumulation

US clinical applications • US Q-App Region of Interest (ROI)
• US Q-App General Imaging 3D Quantification (GI 3D)
• US Q-App Vascular Plaque Quantification (VPQ)

IntelliSpace Portal 7.0• Multi Applications Portfolio

Standard features and functionality • Multi Modality Viewing (CT, MRI, MR, US)
• Volume rendering
• CRT display
• VR surface MIP, MIP, mRecIP, and average displays
• Full slab review capabilities
• Multiliinear reformations in curved, parallel, and MasterCut
• Full 2D capabilities, including, 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

Network and DICOM
The IntelliSpace Portal 7.0 is compliant 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

DICOM Web
The IntelliSpace Portal 7.0 uses
• FTP
• HTTPS (using Client Certificates)

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.

Environmental

<table>
<thead>
<tr>
<th>Operating temperature</th>
<th>DX/IX/EX with Dell PowerEdge T620/R620 servers</th>
</tr>
</thead>
<tbody>
<tr>
<td>10°C – 30°C (50°F – 95°F)</td>
<td></td>
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</tbody>
</table>

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 Gms at 5Hz to 350Hz in all orientations

Storage vibration
1.87 Gms at 5Hz to 500Hz for 15 minutes

Operating shock
Half sine shock in all operational orientations of 315 ± 5% with a pulse duration of 2ms ± 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
-1.5m to 10,000ft (-50 ft to 10,000 ft)

Storage altitude
-1.5m to 12,000m (-50 ft to 39,370 ft)