CONFIGURATIE

LONG DESCRIPTIONS

All pictures featured are for illustration purposes only, and do not necessarily relate to products or services mentioned in the text.

M81601BN - AW SERVER 3.2 XL

The AW Server delivers distributed 3D visualization capabilities throughout the enterprise and at any remote reading location. It utilizes state-of-the-art thin client technology to convert virtually any PC to a high-end 3D post processing station. In addition to this, it serves as a workflow engine enabling optimal collaboration among physicians and allows 3D visualization to be leveraged easily to diagnose diseases quickly and make sound decisions. The AW Server also enables faster turnaround of post-processed results to referring physicians by allowing them to access the data instantly, while maintaining security and privacy of patient data.

The AW Server includes a vendor neutral OpenAPI PACS integration interface that enables launching the AW Server client from a variety of PACS software, both GE Healthcare provided and 3rd party. This capability supports passing the patient context to the client and even the application desired to be launched, so that time is saved, and applications can be launched directly into the most relevant layout. This functionality may require work on the part of the PACS workstation or third-party software provider.

Please refer to the GE AW Server Product Data Sheet for the latest features and capabilities.

Performance and intended uses:

Performance and interactivity on client PC's depend on the network bandwidth, latency and client PC configuration. To attain optimal performance, minimum bandwidth required is 40Mbps (LAN) with a latency of 20ms or lower. The server may be used over WAN/Internet as well although performance will heavily depend on round trip latency between client PC and server. A minimum of 3Mbps bandwidth is required.

The server supports various compression levels selectable by user. The "Smart Compression" technology applies selected compression level only when user is interacting with the images to optimize performance. The images are automatically displayed at full fidelity once interaction stops. Clear visual indication on the images indicates any time compression is being applied to the images. A minimum of 3Mbps bandwidth per client with latency less than 35ms is recommended for reasonable performance when compression is used.

Specifications:

AW Server software is packaged as a turnkey solution that includes off-the shelf enterprise class hardware for optimal performance.

Please refer to the latest AW Server Product Data sheet for specification requirements.

Client PC requirements:

It is the customer's responsibility to make sure every client PC meets minimum specifications for optimal performance, which are outlined in the AW Server product datasheet.

Installation Includes:

o Site readiness survey
o Installation of Enterprise OS.
o Installation of GE Healthcare applications software.
o Configuration of active directory (if required).
o Configuration of up to 5 DICOM hosts provided prior to installation.
o Installation of one client for purposes of server testing and applications training.

Service contract and applications training are optionally purchasable. Warranty information can be found in terms and conditions.

Concurrent licenses for supported advanced applications are optionally purchasable.

M81501CP - Standalone Installation set International 200-240V

Standalone Installation set International 200-240V

M81501CM - Rack AW Server

AW Server High Tier Rack

M81421EH - Integrated Registration

Full Fusion Package Integrated Registration will be delivered on AW VolumShare 7 or AW Server 3.2

Integrated Registration is designed to provide easy comparison of three dimensional (3D) anatomical images from Computed Tomography (CT), MRI (Magnetic Resonance Imaging), PET (Positron Emission Tomography), Single Photon Emission Computed Tomography (SPECT) and X-Ray Angiography (XA)*.

It allows registration and fusion between two volumetric acquisitions, which come from either the same or from different acquisition modalities.

Major features and enhancements are:

Ability to combine any two of the 5 modalities together.

Automatic propagation of registration across series acquired in the same patient exam (i.e. same frame of reference) and to any series from any loaded exam that have been manually grouped together.

Full compatibility of the 3 different registration methods: automatic, manual and landmark that can be combined together to provide an optimal result.

2D, 3D and hybrid 2D/3D Fusion capabilities.

Access to Volume Viewer** functionalities including MPR, Slab and oblique reformations, triple oblique easy definition, Volume Rendering, 3D display, distance and ROI measurements (the ROI measurement only work on the rigid registered images, not on the non-rigid registered images), layout management, segmentations, film and save.

Ability to save registered data as new DICOM series or as Registered DICOM object (except from SPECT saving which is currently a limitation).

Ability to draw and save contours as RTSS DICOM objects.

Summary of operation:

User loads DICOM 3 CT, MR, PET, SPECT and/or XA data into a Integrated Registration protocol.

Registration is performed based on reference and moving series selection.

User reviews the quality of the registration with visualization tools and validates results.

Optional: user defines and saves the contours of structures of interest.

Registration results are saved.

* For XA modality series, Integrated Registration currently supports only the 3D X Ray Angiography (i.e., 3D X-Ray Angiography images stored as CT Image Storage DICOM objects) images acquired with GE Innova equipment and reconstructed with the Innova3DXR application.

M81421BT - OncoQuant

OncoQuant is an oncology workflow enhancement tool that provides multi-modality image and dataset reviews. It provides user-friendly tools to follow lesion size over time, apply study criteria and provide tabulated results to the Oncology team.

OncoQuant is fully integrated within the standard Volume Viewer 5 protocols and therefore works as a toolset rather than a standalone application. Because of this tight integration, OncoQuant, as a product, benefits from the new Volume Viewer 5 improvements.

Major features and enhancements are:

An integrated kit of Oncology Tools compatible in any standard reading protocol in Volume Viewer 5 to aid routine oncology reads.

Adaptable Workflow for standard clinical reading to advanced research using tools supporting RECIST 1.0, 1.1 and WHO criteria.

A Multi-Modality reading platform allowing comparison and correlation of CT, MR, PET/CT, and 3D X-Ray data.

Features:

Automatic Multi-Modality full coverage and regional registration (CT, MR, PET, 3D X-Ray) if the user has purchased Integrated Registration.

Dedicated smart PACS-like layout for facilitating oncology review and follow-up studies from the Volume Viewer 5

Full access to entire set of 3D visualization tools.

One consistent contouring tool for all modalities (CT and MR images and PET SUV's).

Benefit from Lung VCAR algorithms and DCA as a tool inside the routine oncology workflow if the user has purchased Lung VCAR.

Advanced support for output with new oncology save state.

New intuitive Summary Table of Findings supporting guided follow-up for standard or more advanced studies like RECIST.

Export statistical results (for excel) and images to USB and in DICOM to the filmer.

M81421EG - Dynamic Shuttle for AW VolumeShare 7 and AW Server 3.2

Dynamic Shuttle is a Software package that provides the user with the ability to produce datasets that can capture the kinetic behavior of contrast medium in the anatomy being imaged. The images can be viewed in a dynamic form as a 3D volume over time. Additionally the software provides the user the ability for a bone free visualization of vasculature in a dynamic CT angiographic exam.

Key features include:

4D Neuro DSA protocol-Performs image registration and bone removal with one click of the mouse.

4D Body Shuttle protocol-Similar to the Neuro protocol in that it will perform the bone removal and image registration.

Default viewing formats can be customized to the viewer's preference.

The software provides the user with the ability to dynamically select the circulation phase for review.

System Requirements:

AW VolumeShare 7 with a minimum of 24GB RAM or AW Server 3.2

CT System-VolumeShuttle or Volume Helical Shuttle required to product the dynamic image dataset.

B77811BK - VesselIQ XPRESS AND AUTOB

VesselIQ Xpress & AutoBone Xpress VesselIQ Xpress provides an optimized non-invasive application to analyze vascular anatomy and pathology and aid in determining treatment plans from a set of CTA images.

There are new features introduced in the VolumeShare 7 release including:

Auto Abdominal Aorta Vessel tracking which is a completely automated protocol with autobone removal, auto vessel tracking and automatic labeling of the abdominal aorta vasculaure.

Fast Tracking which provides automatic real-time feedback for auto-detected centerlines to speed up vessel tracking.

New editing tools that allow for flexibility in editing based on the size of the vessel being edited.

This software supports the physician in:

Assessment of aneurysms with or without thrombus (false lumen) for size and volume measurements with the capability to track the size and volume over time, stenosis analysis, pre/post stent and surgical planning and directional vessel tortuosity visualization.

Automatic tools for the segmentation of bony structures in the brain and neck and other vascular areas for accurate identification of the vessels, single or double click vessel analysis.

Sizing the vessel, analyzing calcified and which is a completely automated protocol non-calcified plaque to determine the densities of plaque within a vessel, measure areas of abnormalities within a vessel (like stenosis, plaque, thrombus, dissection or leakage).

Semi-automated detection and segmentation of thrombus for subsequent measurements within the application.

Dedicated anatomy based protocols for improved workflow.

Compare a patient's previous exam to their current exam in order to measure and track any changes over time of their vascular structures.

After review of the exams, there are multiple ways to film, archive and capture information for future review.

System Requirements: AW VolumeShare 7 or AW Server 3.2
Note: All softwares are Non-Transferable to other hardware and are Non-Returnable.

B79821RL - CardIQ Xpress 2.0 Reveal DL

CardIQ Xpress 2.0 Reveal DL is an integrated post processing image analysis software for Cardiovascular CT.

The optional CardIQ Xpress 2.0 software can be used to effectively display, reformat and analyze 2D, 3D, and GSI CT images for qualitative or quantitative assessment of the anatomy of the heart and coronary artery vessels from single or multiple cardiac phase image data sets. When used with CardIQ Function, CardIQ Xpress Reveal can also provide functional assessment including relative perfusion information.

The software includes a variety of different 2D, 3D or reformatted protocols including: display of the coronary vessel tree, angiographic view, 2D and 3D rendering of single or multiple coronary artery vessels or grafts, automatic reformation of cross sectional cardiac images into planes along short or long axis of the heart, one-touch cath views for 3D or reformatted images,

3D angiographic view phase registration, color mapped plaque density measurements, IVUS-like views, 3D ejection fraction, 4D aortic and Mitral valve views, relative perfusion, transparency views and beating heart images from single or multiple cardiac phase image data sets.

Additional features of CardIQ Xpress 2.0 option include:

Rendering and display of 2D/3D coronary vascular tree images with automatic vessel tracking & labeling with single click of a protocol. Images can be reviewed in axial, reformat, curved, oblique MPVR, and cross section views

Measurements of coronary arteries including stenosis, stenosis length, and density

PlaqID to color code non-calcified and calcified plaque with volume measurements.

2D reformat review with predefined views to review all coronary vessels.

Color enhanced relative perfusion defect pattern recognition for detection of ischemic heart disease with 4 color patterns

Automatically render data for streamlined reading to include: DL 3D rendered heart, angiographic view, tree VR, and ejection fraction.

Reformat standard axial CT images of single or multiple cardiac phases automatically into short, long and two chamber long axis of the heart for easy review.

Perform functional evaluation of the heart and cine capabilities for multiphase beating heart images with one easy click.

Extraction of the left ventricle and automated ejection fraction and volume measurements

4D aortic valve and mitral valve views with one touch.Ability to select different protocols without exiting the application.

Pre-defined VR IVUS-like views for virtually determining plaque compositions.

One touch angiographic view protocol display coronary vessel tree and myocardium with automatic removal of heart chambers for cath comparative view.

Heart transparency model allowing for full visualization of coronaries in relations to the heart chambers with the ability to fade out the chambers of the heart.

Oblique reformat views in the standard cath angles for easy analysis of the coronary vessels.

Load multi-phase images, review the data and decide which phase or phases will be reviewed for further processing by dropping the non-essential phases

Note: All software is Non-Transferable to other hardware and is Non-Returnable.

B79451RG - CARDIQ XPRESS REVEAL IB U

CardIQ Xpress 2.0 Reveal Upgrade for customers who previously purchased CardIQ Xpress 2.0

Reveal without CardIQ Xpress Process CardIQ Xpress 2.0 Reveal is an integrated post processing image analysis software for Cardiovascular CT on GE's Advantage Workstation.

The optional CardIQ Xpress Reveal software can be used to effectively display, reformat and analyze 2D, 3D, and GSI CT images for qualitative or quantitative assessment of the anatomy of the heart and coronary artery vessels from single or multiple cardiac phase image data sets. When used with CardIQ Function, CardiQ Xpress Reveal can also provide functional assessment including relative perfusion information.

CardIQ Xpress Reveal can be launched directly or from within Volume Viewer applications using gated axial, helical or GSI CT images; including images created using the SnapShot Freeze intelligent motion correction option.

The software includes a variety of different 2D, 3D or reformatted protocols including:

- Display of the coronary vessel tree
- Angiographic view
- 2D and 3D rendering of single or multiple coronary artery vessels or grafts
- Automatic reformation of cross sectional cardiac images into planes along short or long axis of the heart
- One-touch cath views for 3D or reformatted images
- 3D angiographic view phase registration
- Color mapped plaque density measurements

- IVUS-like views
- 3D ejection fraction
- 4D aortic and Mitral valve views
- Relative perfusion
- Transparency views and beating heart images from single or multiple cardiac phase image data sets

CardIQ Xpress Reveal combines simplified user workflow with SnapShot Freeze intelligent motion correction imaging:

Pre-processing the images & models including SnapShot Freeze exams, for faster review

Loading images into the auto launch area area for real-time review of multiple exams

Easy switching from one protocol to the other without exiting the application

Single click one-touch cath views

Batch movie output within cardiac reformat

User defined layouts within vessel analysis for simplified viewing and filming

Multi-phase load to single phase review

The CardIQ Xpress reveal option allows the user to:

Rendering and display of 2D/3D coronary vascular tree images with automatic vessel tracking & labeling with single click of a protocol

Images can be reviewed in axial, reformat, curved, oblique MPVR, and cross section views

Measurements of coronary arteries including stenosis and stenosis length, and density PlaqID to color code non-calcified and calcified plaque with volume measurements.

2D reformat review with predefined views to review all coronary vessels.

Color enhanced relative perfusion defect pattern recognition for detection of ischemic heart disease with 4 color patterns

Automatically render data for streamlined reading to include: 3D rendered heart, angiographic view, tree VR, and ejection fraction.

Reformat standard axial CT images of single or multiple cardiac phases automatically into short, long and two chamber long axis of the heart for easy review

Perform functional evaluation of the heart and cine capabilities for multiphase beating heart images with one easy click

Extraction of the left ventricle and automated ejection fraction and volume measurements.

Note: CardIQ Function Xpress is needed if myocardial wall motion, mass, wall thickness or chamber volumes for the Right Ventricule, Left Atrium, Right Atrium is needed.

4D aortic valve and mitral valve views with one touch

Ability to select different protocols without exiting the application

Pre-defined VR IVUS-like views for virtually determining plaque compositions

One touch angiographic view protocol displays coronary vessel tree and myocardium with automatic removal of heart chambers for cath comparative view

Heart transparency model allowing for full visualization of coronaries in relations to the heart chambers with the ability to fade out the chambers of the

heart Oblique reformat views in the standard cath angles for easy analysis of the coronary vessels

Load multi-phase images, review the data and decide which phase or phases will be reviewed for further processing by dropping the non-essential phases

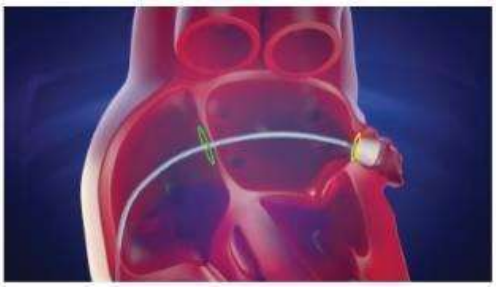
Phase registration - ability to register images from different cardiac phases into a unique data set. The data set can then be saved as a 3D object and/or used for further analysis

System requirements:

AW VolumeShare 7 or AW Server 3.2
Auto Launch and Preprocessing Option

B79911TF - TAVI ANALYSIS PTO

TAVI Analysis is a post-processing planning tool used for TAVI/TAVR procedures. It automatically segments the aorta and displays the aortic valve in multiple views for quick and easy measurements of the annulus. TAVI Analysis provides guided workflow and semi-automated tools to help evaluate appropriate access pathways and can communicate directly with the interventional suite.



B79971JN - SmartScore 4.0

SmartScore 4.0 is a CT post processing software tool for the quantification of coronary artery calcium scoring (CACS).

Features include: Mass score and volume score, automatic highlighting of the calcium, flexible and customizable patient report. Smartscore works with gates cardiac datasets.

SmartScore 4.0 is compatible with AW VolumeShare 7 and later

B79721TK - CardIQ Function Xpress

CardIQ Function Xpress CardIQ

Function Xpress is an Integrated post processing image analysis software for Cardiovascular CT on GE's Advantage Workstation and AW Server.

CardIQ Function Xpress allows users to Non-Invasively Image the Functional Parameters of the Heart such as ejection fraction (EF) and ventricular volumes. CardIQ Function Xpress uses multi-phase cardiac gated datasets for processing.

The software automatically detects endocardial and epicardial contours for assessment of left ventricular (LV), right ventricular (RV) and left atrial functional parameters.

Automatically select each chamber of the heart for individual changer volume analysis. The software automatically selects the LV 97%, LA 87% and RV 96% of the time.
Automatic end diastolic and end systolic selection for LV, RV and LA ejection fractions >91% of the time.

Behind the scene processing & loading of function data for real time review of ejection fraction, volume analysis and myocardial analysis.

One click activation for 4D beating heart

Automatic selection of epicardium and epicardium and endocardium for myocardial analysis.

Bulls eye plots representing wall motion, wall thickness and wall thickening.

Automatic left atrium volume calcification with exclusion of the pulmonary vein.

Single click visual wall motion activation with short axis images in the basal, mid and distal orientation along with a 2-chamber long axis view.

Flexible reporting tool with graphical representations.

Display table of key functional parameters for instant visualization.

System requirements:

AW Workstation with VolumeShare 7 or later or AW Server 3.2 or later.
Requires AutoLaunch and Pre-Processing.

B79421AE - CardEP

CardEP Software for Advantage Workstation VolumeShare7 or AW Server 3.2

CardEP is Integrated Post Processing Image Analysis Software dedicated for Electrophysiology applications on GE's Advantage Workstation. The CardEP software option can be used to effectively display, reformat and analyze 2D or 3D Cardiac CT images for qualitative or quantitative assessment of cardiac chambers and veins.

The Operator has a variety of different 2D,3D or reformatted images to choose from to perform analysis and measurements.

They include:

Automatic 3D VR atrium views, one touch 3D VR heart, multi-phase image reformation, automatic tracking of either pulmonary veins or coronary sinus with cardiac veins, reformation of cross-sectional pulmonary vein images with the ability to orient images along short or long axis of the heart, one touch EP views, EP navigator views, phase registration protocols and batch movie capabilities. Along with these capabilities all protocols allow the user to load in multi-phase data for more accurate analysis.

One of the critical components for an effective cardiac CT Application is a fully integrated post-processing analysis tool tailored to cardiac images. The CardEP option is designed to provide and easy-to-use and time-effective means for electrophysiologists to improve workflow.

System requirements:

Advantage Workstation VolumeShare7

Volume Viewer

B77211RB - CT Perfusion 4D Complete

Includes processing protocols for:

Neuro Perfusion Stroke

Neuro Perfusion Tumor

Body Perfusion Tumors (liver, kidneys, pancreas, etc.)
Myocardial Perfusion
Dynamic Registration for liver and myocardial dynamic acquisitions

CT Perfusion 4D Complete is an extensive collection of dynamic perfusion processing protocols. It is an image analysis software package that allows the evaluation of dynamic CT data following an injection of a compact bolus of contrast material, generating information with regards to changes in image intensity over time. CT Perfusion complete includes neuro (stroke and tumor), body (tumor) and myocardial perfusion protocols. The software provides a quick and reliable assessment of the type and extent of perfusion disturbances by providing qualitative and quantitative information on various perfusion related parameters. The key perfusion parameters that CT Perfusion 4D generates are:

Regional Blood Volume (BV; ml/100g)
Regional Blood Flow (BF; ml/min/100g)
Regional Mean Transit Time (rMTT;s)
Capillary Permeability Surface Area Product (PS)
Time of Arrival (IRF T0)
Transit Time to IRF Peak (Tmax;sec)
Hepatic Arterial Fraction (HAF)
Hepatic Arterial Blood Flow (HABF)

Protocols provided in CT Perfusion Complete are:

Brain Tumor
Body Tumor
Liver
Pancreas
Prostate
Kidney
Soft Tissue
Spleen
Bone
Myocardium
Dynamic Registration for Liver and Myocardium

Perfusion 4D also includes Tissue Classification Index, which provides a thresholding algorithm that may aid the clinician in determining the status of the brain tissue based on blood volume and blood flow maps, where the first six hours after onset of symptoms are critical in identifying the occurrence of stroke and follow-up treatment.

Productivity has been enhanced with faster processing times and through the standard protocol driven design of the user interface. An example of this is the Brain Stroke Protocol (Automatic) that completes the processing with one touch reducing the time required to process the exam and to enhance repeatability. Perfusion 4D Complete is compatible with AW VolumeShare7 and later.

B79421KN - FastStroke

Faststroke FastStroke is a CT image analysis software package that assists in the analysis and visualization of CT data of the head and neck region in stroke work-ups. FastStroke enables an organized approach to the culmination and display of non-contrast head CT, head and neck CTA, multi-phadse CTA of the head and Neuro Perfusion datasets (CT Perfusion 4D license required to enable this functionality within FastStroke) to assist clinicians with a standardized approach to image analysis for the stroke evaluation.

The software will assist the user by providing optimized display settings to enable fast review of the images in synchronized formats, aligning the display of the images to the order of the scans and linking together multiple groups of scans. In addition, the software fuses the vascular information from different time points into a single colorized view. This multiphase information can aid the physician in visualizing the presence or absence of collateral vessels in the brain. Collateral vessel information may aid the physician in the evaluation of stroke patients.

Key Features of FastStroke:

- Intelligent loading identifies the series type and applies the appropriate layout
- Easy and intuitive workflow to quickly move through all the acquired series.
- Smart layouts automatically adjust to display any number of phases acquired within the multiphase CTA (with a maximum of six phases in a single layout).
- Images are automatically displayed in a thick slab MIP at optimized
- WW/WL settings. ColorViz display: a fused display of the multiphase CTA showing the delay of the vessel opacification
- Fully integrated with CT Perfusion 4D Brain Stroke processing (requires CT Perfusion 4D License)

System Requirements: AW VolumeShare 7 and AW Server 3.2 Ext.1 later.

B79421KP - Stroke VCAR

Stroke VCAR (Volume Computer Assisted Reading) gives users a complete reading workflow solution for a comprehensive and robust analysis of cerebral hematoma and aneurysm. Hematoma assessment is done using semi-automated segmentation tools married with innovative interactive editing capability in the form of SmartMesh.

Aneurysm assessment is done through an innovative user guided aneurysm segmentation and visualization. The program lets you generate a clear, concise clinical summary for sharing with referring physicians.

Key Features of Stroke VCAR:

- User guided semi-automated segmentation of hematomas in the brain
- Users can track hematoma changes both visually and quantitatively over time
- SmartMesh - interactive volumetric edition
- Easy and intuitive workflow for aneurysm segmentation
- Initial segmentation done with four guided clicks
- Fully integrated with Spectral CT when using GSI data

System Requirements: AW VolumeShare 7 and AW Server 3.2 or later.

B78421BX - Bone VCAR

Bone VCAR is a CT post processing application that has been developed with an innovative Deep Leaning approach. Bone VCAR will automatically label the spine to improve reader efficiency in identifying, annotating and reporting out of findings when correlation to the spine location is of value. Additionally, it will automatically generate curved reformat and oblique views through the spine to assist in reading the true cross sections of the vertebral bodies and the disc spaces. Deep Learning development provides a robust solution that will work efficiently with data from a diverse patient population.

Key Features of Bone VCAR:

- Deep Learning based application built from a global database of exams
- FAST! - Labels vertebrae in less than 5 seconds

Labeling accuracy >90% (internal testing)

Works for all CT scanners

Works with both enhanced and unenhanced images

Works on GSI monochromatic images (not Material Density Pairs)

Available with all Volume Viewer application workflows

Platform Compatibility:

AW 4.7 Ext 12 and AW Server 3.2 Ext.2 or later

Universal Viewer UV6.0 SP9 or later

Note: All software are Non-Transferable to other hardware and are Non-Returnable.

B79421WH - Colon VCAR

Colon VCAR EC is a CT image analysis software package that allows visualization of 2D, 3D and dissected image data of the colon derived from CT volume image data sets. Colon VCAR EC is designed to aid the physician in evaluating the lumen and internal wall of the colon to confirm the presence or absence of colonic lesions (e.g. polyps). It provides functionality for 2D/3D rendering, bookmarking of suspected lesions, synchronized viewing of the 2D, 3D and 360-degree dissection views for data sets acquired in any position and an object oriented endoluminal display.

The Colon VCAR EC DCA (Digital Contrast Agent) tool is an automated highlight feature for the visual identification of spherical structures within the colon and is intended to be used as concurrent reading device. DCA is a 3D filter that highlights spherical anatomical regions, such as polyps. Colon VCAR EC uses color to display these highlighted areas.

Key features include:

Electronic Cleansing for the visualization of anatomy that would previously be hidden behind tagged fluid.

Colon VCAR's EC user interface provides a seamless integration between automatic and/or manual interactions allowing flexibility that reduces reading time.

Synchronized prone/supine fly-through for ease of view.

Hi-Resolution (512 matrix) 3D fly-through Image quality is not compromised in order to display fly-through.

Quick and easy to use polyp and centerline Measurement Tools for complete reporting.

Flexible Display Format- Leverage any combination of the synchronized 2D, 3D and 360 degree Dissection views for primary reading and problem solving.

Variable speed navigation control.

Automatic Segmentation and Centerline editing- Automatic Small Bowel extraction.

Polyp color mapping for easy tracking.

Reporting Tool - Provides fast, interactive electronic patient reporting.

System requirements: AW VolumeShare 7 or AW Server 3.2

B79421HH - Hepatic VCAR

Hepatic VCAR is a CT post processing software application. It provides enhanced productivity with automation for whole organ and lesion segmentation, tumor burden calculation, treatment planning tools (liver lobes & segments separation). Hepatic VCAR provides the tools to streamline workflow and enhance diagnostic confidence.

Hepatic VCAR provides a comprehensive reading workflow solution for detecting liver lesions and assessment of liver morphology with exceptional flexibility and performance. With it you can visualize and measure the entire liver volume, liver segments and liver lesions, determine tumor burden and assess change over time. Hepatic VCAR is built with full integration

to Gemstone Spectral CT (GSI) allowing for use with GSI data. A clear, concise clinical report allows for easy communication of all measurement results.

Key features of the Hepatic VCAR package:

- Automatic liver segmentation in under 30 seconds.
- Automatic detection of arterial and portal venous phases.
- Intelligent user guided segmentation algorithms to size liver lesions.
- Built in lesion overlap detection and avoidance functionality.
- Tumor burden calculations linked to segment, lobe or whole liver.
- Efficient management of lesions and tumor burden for longitudinal exams.
- Integration with Spectral CT allows for quantification of Iodine to aid in lesion characterization when used with GSI datasets.
- Clinical report of all measurements and images automatically generated with easy export functionality.

Requirements:

- Hepatic VCAR is compatible with AW Server 3.2 and later and AW VolumeShare 7 or later

B78421LA - Lung VCAR

Lung VCAR for AW VolumeShare 7 or AW Server 3.2

Volume Computer Assisted Reading (VCAR) takes a new direction in application design, leveraging (exploiting) the power of high resolution, volume scanning. This new technology is enabled by the Automatic Detection, Precise Segmentation and Interactive Quantitative Analysis that enhances analytics and improves data management. The result being better informed decisions and improved patient management.

Key features include:

- Digital Contrast Agent (DCA)- Automatically visualizes and highlights abnormal and
- potentially cancerous pulmonary solid nodules Bookmarking Tools for ease of image review and analysis
- Correlated Workflow-Synchronized 2D, DCA and Segmented Analysis
- One Click Solid Nodule Segmentation from vessels and pleural wall
- Segmentation Analysis of all nodule types: Solid, Non-Solid and Part Solid
- Automatic Nodule Analysis Provides:
  - Percent Growth
  - Doubling Time
- Volumes Automatic Segmentation of both the right and left lungs thus reducing the visual distractions associated with anatomy not of interest
- Cross Reference/Correlation Bar Provides a quick reference to aid in the localization of a nodules global location
- Image Display Tools for comparison of initial and follow-up exams
- Automatic Bookmark Propagation from previous to current or current to previous exams
- Automatic Image Registration for image review synchronization
- Temporal Statistics Display for fast informed decisions
- Customizable Personal Review Layouts
- Interactive Patient Reporting (DICOM SR) provides both structure and flexibility

Lung VCAR requirements: AW VolumeShare 7 and later or AW Server 3.2

B79421WJ - Thoracic VCAR

Thoracic VCAR is a CT post processing software package designed to provide the user with a set of tools that allows the physician to make quantitative measurements that can assist in the diagnosis of lung diseases like COPD.

The software combines segmentation of the lung and airways with analysis tools to provide advance analysis of the lung parenchyma and airways. The analysis comprises of 2D and 3D wall thickness and diameter measurements which provide an integrated approach to a comprehensive evaluation of a CT lung exam.

Key features include:

- Quick basic 2D review with one-click measurements of wall thickness derived from airway and lumen diameters with display of inner and outer contours for added reference
- Simple workflow with segmentation of right and left lung and airways
- One touch 3D airway tracking with measurements for airway analysis
- Emphysema Protocol-Segments the left and right lung excluding airways. Abnormal
- regions can be visualized and measured as a percentage of the whole by applying user selectable thresholds Lobe segmentation - Segmentation of the left and right lung with additional tools to seperate and visualize by distinct lobes.
- Once segmented they can be displayed with color overlays with volumes displayed by lobe Airway analysis - Segments the airways from the trachea to the bronchi, which is tracked for lumen analysis
- Report Tool - Standard feature. The report can be printed, saved as a structured report, made into a secondary capture to be sent to PACS and exported through the web.

System requirements: AW VolumeShare7 or later and AW Server 3.2