

VAMC DECATUR, GA
PO# 508-3B5008

SOMATOM Definition AS (AS+ FAST CARE)

All items listed below are included for this system: *(See Detailed Technical Specifications at end of Proposal.)*

Qty	Item Description
1	SOMATOM Definition AS(AS+FAST CARE) The SOMATOM Definition AS (AS+ FAST CARE, 128-slice configuration) is Siemens' state-of-the-art single source CT that offers the possibility to maximize clinical outcome and to minimize radiation dose. The ultimate goal is to provide medical professionals more time to take better care of their patients. With this, it is set to raise the standard of patient-centric productivity. Using Siemens' z-Sharp technology the SOMATOM Definition AS can provide fast sub-millimeter volume coverage and very high spatial resolution. The high rotation time of 0.30 seconds delivers excellent temporal resolution. With Siemens' new FAST - Fully Assisting Scanner Technologies - the SOMATOM Definition AS can simplify typically time consuming and complex procedures: the scanning process gets more intuitive and the results become more reproducible. Its comprehensive low dose portfolio includes many unique features like CARE kV that sets the ideal voltage for every examination or industry's first Adaptive Dose Shield that prevents clinically irrelevant over-radiation in spiral scanning. Additionally, its large bore of 78 cm opens CT to all patients, meaning that virtually no patient is excluded.
1	SOMATOM Definition AS (AS+128Conf.) SOMATOM Definition AS basic configuration
1	100 kW Power The 100 kW power allows the X-ray generator the use of maximum power of 100kW in fine adjustable steps.
1	FAST CARE Platform Siemens' unique FAST CARE platform is set to raise the standard of patient-centric productivity. Utilizing FAST - Fully Assisting Scanner Technologies -, typically time-consuming and complex procedures during the scan process are extremely simplified and automated, not only improving workflow efficiency, but optimizing the overall clinical outcome by creating reproducible results, making diagnosis more reliable and reducing patient burden through streamlined examinations. Siemens' desire for as little radiation exposure as possible lies at the heart of the CARE - Combined Applications to Reduce Exposure - research and development philosophy offering a unique portfolio of dose saving features, many of them being introduced as industry's first.

Qty	Item Description
1	<p>SAFIRE #AWP</p> <p>The Sinogram Affirmed Iterative Reconstruction (SAFIRE) enhances spatial resolution, reduces image noise and increases sharpness by introducing multiple iteration steps in the reconstruction process. The resulting superior image quality enables to reduce dose by up to 60%*. *In clinical practice, the use of SAFIRE may reduce CT patient dose depending on the clinical task, patient size, anatomical location, and clinical practice. A consultation with a radiologist and a physicist should be made to determine the appropriate dose to obtain diagnostic image quality for the particular clinical task. The following test method was used to determine a 54 to 60% dose reduction when using the SAFIRE reconstruction software. Noise, CT numbers, homogeneity, low-contrast resolution and high contrast resolution were assessed in a Gammex 438 phantom. Low dose data reconstructed with SAFIRE showed the same image quality compared to full dose data based on this test. Data on file.</p>
1	<p>CARE Child</p> <p>Dedicated pediatric CT imaging, including 70 kV scan modes and specific CARE Dose4D curves and protocols</p>
1	<p>X-CARE</p> <p>Partial scanning to reduce direct X-ray exposure for the most dose-sensitive body regions, e.g. the breasts, thyroid gland or eye lens</p>
1	<p>FAST Advanced Package</p> <p>Utilizing Siemens' unique FAST - Fully Assisting Scanner Technologies - time-consuming and complex procedures such as scan or recon preparations are extremely simplified - ideally reduced to a single click. The FAST Advanced Packages offers an attractive bundle of FAST features to comprehensively optimize scan and recon preparations.</p>
1	<p>FAST IRS</p> <p>Reconstruction computer for the preprocessing and reconstruction of the CT raw data. The reconstruction computer contains of a cluster of 4 high-performance GPU boards performing the preprocessing and reconstruction of the CT data. The raw data memory is 3.8 Tbyte. The peak reconstruction performance is up to 50 frames/sec.</p>
1	<p>Gantry tilt incl. tilted spiral</p> <p>Allows for sequential scanning with a tilted gantry between +/- 30°, depending on the vertical position of the table. Using the gantry tilt sensitive organs (like eye lenses) can be moved out of the scan range or it eases access during interventional procedures. The tilted spiral allows to utilize the gantry tilt for spiral scan modes.</p>
1	<p>Extended Field of View #AWP</p> <p>Software program with special reconstruction algorithms that allow for visualization of objects using a FOV up to 78 cm (non-diagnostic image quality). License to use software on a single unit.</p>
1	<p>HD FoV #AWP</p> <p>Software program with special reconstruction algorithms that allow for visualization of objects using a FOV up to 65 cm with an image quality suited for radiation therapy planning.</p>
1	<p>Adaptive 4D Spiral Plus</p> <p>With the unique Adaptive 4D Spiral, dynamic CT imaging moves beyond fixed detector limitations to provide larger coverage than the actual detector size.</p>
1	<p>z-UHR incl. UHR</p> <p>SOMATOM Definition AS+ z-UHR/UHR functionality provides significantly improved spatial resolution.</p>

Qty	Item Description
1	<p>CT Acute Care Engine - Scan Opt</p> <p>The CT Acute Care Engine scan options provide scan modes to enable disease oriented workflows which allow lifesaving diagnostics when every second counts. These cover the wide variety of challenging acute situations, from efficient acute chest pain management to abdominal imaging, fast trauma assessment as well as neurovascular and stroke imaging. Scan modes - Extended FOV for obese patient imaging or better device positioning during CT interventions. - Fast 0.33 s rotation time for 165 ms temporal resolution (resp. 83 ms in bi-segment mode) to freeze motion. - For FAST CARE configurations or if selected as an option: Fast 0.30 s rotation time for 150 ms temporal resolution (resp. 75 ms in bi-segment mode) to freeze motion. - HeartView CT including: - ECG-Gated Spiral scanning for high and irregular heart rates - Adaptive Cardio Sequence for moderate heart rates - MinDose - syngo Volume Perfusion CT Neuro (on syngo Acquisition Workplace)</p>
1	<p>Rear cover incl. gantry panels</p> <p>Rear Cover including gantry control panels with control functionality from the backside.</p>
1	<p>Cooling System Air</p> <p>SOMATOM Definition AS air cooling for the dissipation of heat generated in the gantry.</p>
1	<p>Cable loom 25 m</p> <p>Cable loom used to connect the power distribution system (PDS) with the gantry.</p>
1	<p>Multi Purpose Table</p> <p>Patient table to support up to 200cm scan range. Motor-driven table height adjustment from min. 48 cm to max. 92 cm, longitudinal movement of the tabletop 200 cm in increments of 0.5 mm, positioning accuracy +/- 0.25 mm from any direction. Horizontal scan range 200 cm. Table height can be controlled alternatively by means of foot switch (2 each on both sides of the patient table). In the case of emergency stop or power failure, the tabletop can also be moved manually in horizontal direction. Max. table load: 227 kg/500 lbs, Table feed speed: 2-200 mm/s, Distance between gantry front and table base 40 cm. Positioning aids: Positioning mattress, mattress protector, head-arm support (inclusive cushion), and non-tiltable head holders with positioning cushion set, patient restraining system for head fixation, restraining-strap set with body fixation strap that can be directly connected to the patient table top, headrest, table extension with positioning mattress, knee-leg support.</p>
1	<p>Physiological Monitoring Module</p> <p>The Physiological Monitoring Module allows to connect a 3 Channel ECG cable for ECG controlled cardiac acquisition.</p>
1	<p>ECG cable IEC2 #D</p> <p>ECG cable, IEC2 (AHA/US color coding).</p>
1	<p>High Cap. Patient & Trauma Tab.Top</p> <p>The high capacity and trauma table top offers the capability to support up to 307 kg/676 lbs of patient weight. It allows easy positioning and transfer from and to the table, due to its flat surface. Special accessories and an extended table top width of 530 mm ensure a safe and comfortable positioning for obese patients.</p>
1	<p>High Cap. Patient & Trauma Acc Kit</p> <p>The High capacity and Trauma accessory kit contains additional Patient restraint set with a width of 400mm and additional table extensions for feet and head.</p>
1	<p>Mattress for Bariatric Table Top</p> <p>This mat is used for scanning non-bariatric patients on the flat, bariatric table top. Placing this mat on the bariatric table top eliminates the need to exchange the table top when non-bariatric patients are scanned. This mat has a curved profile and enables comfortable positioning of non-bariatric patients.</p>
1	<p>Table Side Rails</p> <p>Side rails enable the quick and easy attachment of additional accessories such as an infusion bottle holder and i-control intervention module to the standard patient table.</p>

Qty	Item Description
1	Tiltable Head Holder Tiltable Head Holder for the fixation of the patient's head. Tilt range between +30 till - 15 degree.
1	Patient Body Restraint Strap 400 mm 400 mm wide restraint strap for the safe positioning of even obese patients on the patient table.
1	Computer Desk #AWP New CT desk to accommodate the control components and color monitor. Width: 1200 mm, Depth: 800 mm, Height: 720 mm.
1	Computer Cabinet #AWP New cabinet to accommodate the computer system and UPS. Matched to the design of the control console table. Width: 800 mm, Depth: 800 mm, Height: 720 mm
1	syngo Security Package #AWP Software option for syngo based SOMATOM systems, providing enhanced security features including user management and audit trail functionality.
1	syngo Volume Perfusion Body #AWP syngo Volume Perfusion CT - Body allows 3 dimensional evaluation of volume perfusion CT data. For syngo CT Acquisition Workplace
1	Adapt. 3D Intervent. Suite Wireless The complete solution for 2D and 3D non fluoroscopic and 2D fluoroscopic minimal invasive volume interventions. The Adaptive 3D Intervention Suite contains Adaptive 3D Intervention for 3D volume intervention. Intervention Pro for spiral and sequential non- fluoroscopic interventional procedures and complete organ coverage with maximal flexibility and with minimal single click effort i-Fluoro CT for CT allows for 2 dimensional interventional fluoroscopic procedures i-Control CT supports interventional procedures as independent remote unit Foot switch for radiation release (x-ray).
1	Dual 19" Monitor #AWP Second 19-inch monitor for the Acquisition workplace (AWP)
1	Ceiling Kit for Second Monitor The dual monitor solution enables access to images and scan data while interacting with the patient in the scan room. The high resolution, flicker free, 19-inch (48 cm) color flat panel displays are mounted at the ceiling support. Consisting of: Two monitors, video transmitter, video receiver, power supply cable and a 30 m fiber-optic cable set for connecting the flat screen monitor.
1	Ceiling Support Intervention Ceiling support for the accommodation and safe installation of one or two flat screen monitors in the examination room for room heights from 2640 mm to 3680 mm.
1	19" flat screen monitor The 19" monitor option supports CT interventions and CT fluoroscopy with a display in the examination room.
1	i-Control Trolley Trolley for the i-control CT module
1	syngo CT.3D Workplace #CTWP A dedicated syngo CT processing workplace, designed to optimize data management at the CT scanner.
1	FAST Spine #CTWP Accurate and anatomically aligned preparation of spine recons with just a single click.

Qty	Item Description
1	FAST Planning #CTWP Immediate, organ-based setting of scan and recon ranges aiming for a safer, faster and more standardized workflow at the scanner.
1	Cardio BestPhase Plus #CTWP Cardio BestPhase, a software dedicated to automatically detect the optimal phase for motion-less coronary visualization. The phase is defined in either end-systole, end-diastole or both timepoints and automatically reconstructed.
1	syngo Volume Perfusion Neuro #CTWP syngo Volume Perfusion CT - Neuro for syngo CTWP only. Allows for 3 dimensional evaluation of volume perfusion CT data.
1	syngo Volume Perfusion Body #CTWP syngo Volume Perfusion CT - Body for syngo CT Workplace only. Allows 3 dimensional evaluation of volume perfusion CT data.
1	syngo Calcium Scoring CT #CTWP Dedicated application for the quantification of calcifications in CT images. For best results, CT images acquired with HeartView DSCT by ECG-synchronized imaging should be used. The Calcium Scoring software calculates various scores (Agatston score, volume score and calcium mass) to assess the risk of a cardiac infarct within user-defined regions for up to four coronary arteries.
1	Extended Field of View #D #CTWP Software program with special reconstruction algorithms that allow for visualization of objects using a FOV up to 78 cm (non-diagnostic image quality). License to use software on a single unit.
1	HD FoV #CTWP Software program with special reconstruction algorithms that allow for visualization of objects using a FOV up to 65 cm with an image quality suited for radiation therapy planning.
1	syngo Security Package #D# CTWP Software option for syngo based SOMATOM systems, providing enhanced security features including user management and audit trail functionality.
1	CARE Profile #CTWP CARE Profile visualizes the dose distribution along the topogram prior to the scan.
1	SAFIRE #CTWP The Sinogram Affirmed Iterative Reconstruction (SAFIRE) enhances spatial resolution, reduces image noise and increases sharpness by introducing multiple iteration steps in the reconstruction process. The resulting superior image quality enables to reduce dose by up to 60%*. *In clinical practice, the use of SAFIRE may reduce CT patient dose depending on the clinical task, patient size, anatomical location, and clinical practice. A consultation with a radiologist and a physicist should be made to determine the appropriate dose to obtain diagnostic image quality for the particular clinical task. The following test method was used to determine a 54 to 60% dose reduction when using the SAFIRE reconstruction software. Noise, CT numbers, homogeneity, low-contrast resolution and high contrast resolution were assessed in a Gammex 438 phantom. Low dose data reconstructed with SAFIRE showed the same image quality compared to full dose data based on this test. Data on file.
1	Keyboard English Keyboard in the above-mentioned language.
1	Cable 16m #CTWP 16 meter connection between CT workplace and CT system. Contains both, power and network connection between workplace and the CT system, makes additional power supply unnecessary.

Qty	Item Description
1	CT Project Management A Siemens Project Manager (PM) will be the single point of contact for the implementation of your Siemens equipment. The assigned PM will work with the customer's facilities management, architect or building contractor to assist you in ensuring that your site is ready for installation. Your PM will provide initial and final drawings and will coordinate the scheduling of the equipment, installation, and rigging, as well as the initiation of on-site clinical education.
1	CT Standard Rigging and Installation This quotation includes standard rigging and installation of your CT new system. Standard rigging into a room with reasonable access, as determined by Siemens Project Management, during standard working hours (Mon. - Fri./ 8 a.m. to 5 p.m.) It remains the responsibility of the Customer to prepare the room in accordance with the SIEMENS planning documents. Any special rigging requirements (Crane, stairs, etc.) and/or special site requirements (e.g. removal of existing systems, etc.) is an incremental cost and the responsibility of the Customer. All other "out of scope" charges (not covered by the standard rigging and installation) will be identified during the site assessment and remain the responsibility of the Customer.
1	Initial onsite training 32 hrs Up to (32) hours of on-site clinical education training, scheduled consecutively (Monday - Friday) during standard business hours for a maximum of (4) imaging professionals. Training will cover agenda items on the ASRT approved checklist. Uptime Clinical Education phone support is provided during the warranty period for specified posted hours. This educational offering must be completed (12) months from install end date. If training is not completed within the applicable time period, Siemens obligation to provide the training will expire without refund.
1	Initial onsite training 32 hrs GovOffset
1	Additonal onsite training 32 hours Up to (32) hours of on-site clinical education training, scheduled consecutively (Monday - Friday) during standard business hours for a maximum of (4) imaging professionals. Training will cover agenda items on the ASRT approved checklist if applicable. This educational offering must be completed (12) months from install end date. If training is not completed within the applicable time period, Siemens obligation to provide the training will expire without refund.
1	Offset One Additional Onsite Training 32 hrs (\$7,400)
5	Additonal onsite training 32 hours Up to (32) hours of on-site clinical education training, scheduled consecutively (Monday - Friday) during standard business hours for a maximum of (4) imaging professionals. Training will cover agenda items on the ASRT approved checklist if applicable. This educational offering must be completed (12) months from install end date. If training is not completed within the applicable time period, Siemens obligation to provide the training will expire without refund.
1	Additional onsite training 24 hours Up to (24) hours of on-site clinical education training, scheduled consecutively (Monday - Friday) during standard business hours for a maximum of (4) imaging professionals. Training will cover agenda items on the ASRT approved checklist if applicable. This educational offering must be completed (12) months from install end date. If training is not completed within the applicable time period, Siemens obligation to provide the training will expire without refund.
1	Additional onsite training 16 hours Up to (16) hours of on-site clinical education training, scheduled consecutively (Monday - Friday) during standard business hours for a maximum of (4) imaging professionals. Training will cover agenda items on the ASRT approved checklist if applicable. This educational offering must be completed (12) months from install end date. If training is not completed within the applicable time period, Siemens obligation to provide the training will expire without refund.

Qty	Item Description
1	CT syngo Security Virtual Instructor Led Tuition for up to (4) professionals to participate in a Siemens instructor led virtual class. The objectives of this virtual class are to introduce the user interface and configuration options of the syngo Security Package. The training is best suited for the IT 6 and/or PACS administrator. The virtual setting allows the participant to benefit from a 4 hour online virtual training session without the need to travel to a Siemens training center. This educational offering must be completed (12) months from install end date. If training is not completed within the applicable time period, Siemens obligation to provide the training will expire without refund.
6	Accredited Printed Self Study Program This printed self study program will provide multiple imaging professionals with a series of clinical review articles and study modules. This program will help technologists to remain current while obtaining CE credits. This educational offering must be completed (12) months from install end date. If training is not completed within the applicable time period, Siemens obligation to provide the training will expire without refund.
1	e.class Virtual Instructor Led (1hr) Tuition for up to (4) imaging professionals to participate in a Siemens instructor led virtual class. The virtual setting allows the participant to benefit from classroom training without the need to travel to a Siemens training center. This educational offering must be completed (12) months from install end date. If training is not completed within the applicable time period, Siemens obligation to provide the training will expire without refund.
2	Govt. Training Class (T&L not included) Tuition for (1) government attendee to attend a Classroom Course of choice at one of the Siemens training centers. This educational offering must be completed (12) months from install end date. If training is not completed within the applicable time period, Siemens obligation to provide the training will expire without refund. One complimentary biomedical tuition is included with the purchase of this system. This training must be completed before the end of the warranty period.
1	TWO SETS OF SERVICE AND OPERATORS MANUALS
1	Additional Rigging/Out of Scope_In-bound
1	CT1CTESSEN- Service Essentials for CT(10 Days)
2	
1	CT2DEFFAM- Somatom Definition Family incld. Definition AS/AS+, Definition Flash, Edge Systems (13 Days)
1	XX2SYNGO (5 Days)
1	Stellant Dual Flow CT Inj.(Ceiling)
1	HARDWIRED TYPE 2 Surge protective Device
1	CT SLICKER; SENSATION AND VOLUME ZOOM
1	Low Contrast CT Phantom & Holder
1	syngo Neuro DSA CT #CTWP syngo(r) Neuro DSA subtracts bone structures from CT-Angiography (CTA) datasets for improved visualization of the cerebral vasculature. It uses a nonenhanced CT (NECT) scan with the aim to automatically and quickly remove bone from cerebral CTA data. This improves visualization of vascular structures in the area of the skull base and helps to delineate aneurysms and other vascular diseases.
1	syngo Expert-i #AWP Expert-I enables the physician to interact with the syngo Acquisition Workplace from virtually anywhere in your hospital.

Qty

Item Description

1

syngo InSpace 4D AVA #CTWP

syngo InSpace 4D Advanced Vessel Analysis is an optional plug-in for syngo InSpace 4D. The application facilitates automated vessel segmentation and stenosis quantification

1

Keyboard English

Keyboard in the above-mentioned language.

syngo.via VA11

All items listed below are included for this system: (See Detailed Technical Specifications at end of Proposal.)

Qty	Item Description
1	syngo.via Advanced User #1 One Advanced User License of the syngo.via client server solution for multi-modality image reading. It provides 2D, 3D, 4D image reading capabilities at almost every workplace for various modalities (e.g. CT, MR, PET/CT, CR, XA image types). The syngo.via client runs on standard Windows computers in the network and integrates into radiologist's reading workplace (RIS; PACS) for efficient image reading based on a wide range of imaging applications (advanced visualization applications) for different clinical cases. Those applications are available as additional options for syngo.via. The syngo.via licensing model is flexible and tailored to the number of concurrent users (users working at the same time). The service support for syngo.via requires the provision of an administrator with dedicated tasks and a minimum broadband Internet connection bandwidth.
4	syngo.via Advanced User #1+ The additional syngo.via Advanced User license provides Advanced 2D, 3D, 4D image reading capabilities for an additional Advanced User
4	syngo.CT Coronary MIGRATION #1 This item facilitates the migration of clinical functionality of syngo Circulation from the syngo MultiModality Workplace (MMWP) to syngo.CT Coronary Analysis which provides the corresponding clinical functionality on syngo.via.
4	syngo.CT CaScoring MIGRATION #1 This item facilitates the migration of clinical functionality of syngo Calcium Scoring from the syngo MultiModality Workplace (MMWP) to syngo.CT CaScoring which provides the corresponding clinical functionality on syngo.via
4	syngo.CT Card. Func. MIGRATION #1 This item facilitates the migration of clinical functionality of syngo Circulation from the syngo MultiModality Workplace (MMWP) to syngo.CT Cardiac Function which provides the corresponding clinical functionality on syngo.via.
4	syngo.CT Vasc. Analysis MIGRATION#1 This item facilitates the migration of clinical functionality of syngo InSpace, including AVA (Advanced Vessel Analysis), from the syngo MultiModality Workplace (MMWP) to syngo.CT Vascular Analysis which provides the corresponding clinical functionality on syngo.via
4	syngo.CT Neuro DSA MIGRATION #1 This item facilitates the migration of the clinical functionality of syngo Neuro DSA CT from the syngo MultiModality Workplace (MMWP) to syngo.CT Neuro DSA which provides the corresponding clinical functionality on syngo.via. syngo.CT Neuro DSA (Digital Subtraction Angiography) performs a fast and easy, zero-delay, bone-free, neurovascular evaluation via a server-client based solution, for a single concurrent user.

Qty	Item Description
1	<p>syngo.CT Colonography MIGRATION #1</p> <p>This item facilitates the migration of the clinical functionality of syngo Colonography CT from the syngo MultiModality Workplace (MMWP) to syngo.CT Colonography which provides the corresponding clinical functionality on syngo.via syngo.CT Colonography is a non-invasive, diagnostic tool for CT data that can be used to locate and evaluate lesions in the colon. Application for one concurrent user.</p>
1	<p>syngo.CT Colon PEV MIGRATION #1</p> <p>This item facilitates the migration of clinical functionality of syngo Colonography CT - PEV from the syngo MultiModality Workplace (MMWP) to syngo.CT Colonography - PEV which provides the corresponding clinical functionality on syngo.via syngo.CT Colonography - PEV is a fully automated, computer assisted second reading tool for improved detection of colon polyps. syngo.CT Colonography - PEV provides a single concurrent user license.</p>
1	<p>syngo.CT Segmentation MIGRATION #1</p> <p>This item facilitates the migration of clinical functionality of syngo CT Oncology or syngo LungCare from the syngo MultiModality Workplace (MMWP) to syngo.CT Segmentation which provides the corresponding clinical functionality on syngo.via. syngo.CT Segmentation provides automated segmentation and evaluation of lesions in lung, liver, lymph nodes and other organs.</p>
1	<p>syngo.CT Lung CAD MIGRATION #1</p> <p>This item facilitates the migration of the clinical functionality of syngo Lung CAD from the syngo MultiModality Workplace (MMWP) to syngo.Lung CAD which provides the corresponding clinical functionality on syngo.via syngo.Lung CAD provides Computer Aided Detections of solitary lung nodules for one concurrent user.</p>
1	<p>syngo.CT Pulmo 3D MIGRATION #1</p> <p>This item facilitates the migration of clinical functionality of syngo InSpace Lung Parenchyma Evaluation from the syngo MultiModality Workplace (MMWP) to syngo.CT Pulmo 3D which provides the corresponding clinical functionality on syngo.via. syngo.CT Pulmo 3D enables CT-based clinical assessment of COPD (Chronic Obstructive Pulmonary Disease). Provides automated evaluation and documentation of lung emphysema by 3D quantification of left and right lung and airways measurements.</p>
1	<p>syngo.CT DE Adv. Package MIGR. #1</p> <p>This item enables the basic migration of clinical functionality of syngo.CT Dual Energy Advanced from the syngo MultiModality Workplace (MMWP) to syngo.CT Dual Energy Advanced Package.</p>
1	<p>syngo.CT DE Direct Angio MIGR. #1</p> <p>This item facilitates the migration of clinical functionality of syngo.CT DE Direct Angio from the syngo MultiModality Workplace (MMWP) to syngo.CT DE Direct Angio on syngo.via.</p>
1	<p>syngo.CT DE Lung Analysis MIGR. #1</p> <p>This item facilitates the migration of clinical functionality of syngo.CT DE Lung Analysis from the syngo MultiModality Workplace (MMWP) to syngo.CT DE Lung Analysis on syngo.via.</p>
1	<p>syngo.CT DE Calculi Char. MIGR. #1</p> <p>This item facilitates the migration of clinical functionality of syngo.CT DE Calculi Characterization from the syngo MultiModality Workplace (MMWP) to syngo.CT DE Calculi Characterization on syngo.via.</p>
1	<p>syngo.CT DE Brain Hemo. MIGR. #1</p> <p>This item facilitates the migration of clinical functionality of syngo.CT Brain Hemorrhage from the syngo MultiModality Workplace (MMWP) to syngo.CT Brain Hemorrhage on syngo.via.</p>
1	<p>syngo.CT DE Heart PBV MIGRATION #1</p> <p>This item facilitates the migration of clinical functionality of syngo.CT DE Heart PBV from the syngo MultiModality Workplace (MMWP) to syngo.CT DE Heart PBV on syngo.via.</p>

Qty	Item Description
1	syngo.CT DE Virtual Unenh. MIGR. #1 This item facilitates the migration of clinical functionality of syngo.CT DE Virtual Unenhanced from the syngo MultiModality Workplace (MMWP) to syngo.CT DE Virtual Unenhanced on syngo.via.
3	syngo.PET Neuro DB Comp. MIGR #1 This item facilitates the migration of the clinical functionality syngo Scenium PET from the syngo MultiModality Workplace (MMWP) to syngo.PET Neuro DB Comparison on syngo.via with the corresponding clinical functionality. The migration of the clinical functionality to syngo.via requires a future software version and will be performed upon availability. The migration requires a syngo.via service agreement with Siemens Remote Service (SRS).
1	syngo.MR General Engine MIGRATION#1 This item facilitates the migration of the clinical functionality of syngo MR Basic Evaluation from the syngo MultiModality Workplace (MMWP) to syngo.MR General Engine which provides the corresponding clinical functionality on syngo.via. The syngo.MR General Engine extends syngo.via by adding software for professional and routine MR radiology usage. It includes workflows for dedicated MR examinations that load and structure examination results automatically into meaningful layouts including user support to make sure that no data is missed. syngo.MR General Engine contains several MR Radiology workflows, cardiovascular workflows and MR Evaluation features.
1	syngo.MR Spectro Eval MIGRATION#1 This item facilitates the migration of the clinical functionality syngo MR Spectro Eval from the syngo MultiModality Workplace (MMWP) to syngo.MR Spectro Evaluation which provides the corresponding clinical functionality on syngo.via.
1	syngo.MR Neuro Perf. MIGRATION#1 This item facilitates the migration of clinical functionality from the syngo MultiModality Workplace (MMWP) to syngo.MR Neuro Perfusion which provides the corresponding clinical functionality on syngo.via This item contains MR Neuro Perfusion evaluation and Automatic local AIF calculation.
1	syngo.MR Neuro fMRI MIGRATION#1 This item facilitates the migration of the clinical functionality syngo BOLD 3D Evaluation from the syngo MultiModality Workplace (MMWP) to syngo.MR Neuro fMRI which provides the corresponding clinical functionality on syngo.via.
2	syngo.MR Cardiac 4DVF MIGRATION#1 This item facilitates the migration of clinical functionality from the syngo MultiModality Workplace (MMWP) to syngo.MR Cardiac 4D Ventricular Function which provides the corresponding clinical functionality on syngo.via. syngo.MR Cardiac 4D Ventricular Function processes MR cine images of the heart and generates quantitative results for physicians in the diagnostic process. MR cardiac interactive reporting template included.
2	syngo.MR Cardiac Flow MIGRATION#1 This item facilitates the migration of the clinical functionality syngo Argus Flow from the syngo MultiModality Workplace (MMWP) to syngo.MR Cardiac Flow which provides the corresponding clinical functionality on syngo.via.
1	Server HW Config XL syngo.via server hardware configuration XL
1	Software License Ext. Server HW XL Mandatory license extension for embedded applications on Hardware systems with more than one CPU. Second CPU license.
1	HP Care Pack. 3y 13hx5d HW Support HP Care Pack Services upgrade or extend the standard warranty with enhanced, customized on-site and remote support for hardware for 3 years.

Qty	Item Description
1	syngo MMWP Client #1 This is a syngo MultiModality Workplace advanced post-processing workstation, comprising Windows XP PC with syngo(r) base user software, syngo 3D, syngo Expert-i and monitor. The syngo MMWP Client workplace is already prepared for advanced 3D post-processing regarding hardware performance and graphics card. The software functionality can be extended to suit specific user clinical needs by adding optional cross-modality and modality-specific application modules.
1	Modality Integration SY Modality integration of the syngo MMWP Client with primary use SYNGO.
1	syngo Keyboard USA English English (US) syngo(r) keyboard
1	PACS-Driven Implementation Pkg. This PACS-Driven Implementation Package includes installation and integration services for syngo.via in a radiologic workflow mainly supported by the PACS functionality. This package includes professional services, such as: - Installation of the syngo.via server software on the server hardware - Installation of the syngo.via client software on one clinical workplace for one user - Connection to up to 5 DICOM nodes - Image call-up of syngo.via from the PACS' user interface - Integration of syngo.via into the IT infrastructure using Active Directory, if applicable - Configuration of basic syngo.via workflows and rules - Integration of one syngo.via client workplace with one syngo MultiModality Workplace 2009A.
1	Upgrade PACS to RIS Implementation The syngo.via system has been previously installed with the PACS-Driven Implementation. It is now to be upgraded to the RIS-Driven Implementation Package. The RIS-Driven Implementation Package includes installation and integration services for syngo.via in a radiologic workflow mainly supported by the RIS functionality of a DICOM Modality Worklist for preprocessing of images in syngo.via. This upgrade package includes professional services, such as: - Image call-up of syngo.via from the PACS' or RIS' user interface, if image call-up has not been installed previously - Integration of syngo.via into the IT infrastructure using Active Directory, if it has not been configured in syngo.via previously - Configuration of DICOM Modality Worklist integration in syngo.via
1	VIA Govt Trng in RIS Imp Per agreement, credit for initial training in Basic Implementation 14412664
1	Server HW Installation Service Basic installation service for the syngo.via server hardware with the operating system at the customer's site. Integration into the Local Area Network of the customer and to Siemens Remote Service over internet connection.
3	VIA Govt Server HW Install Per agreement, credit for syngo.via hardware installation by 3rd party integrator 14412656
1	MMWP Client HW Implementation Service Implementation services for one syngo MultiModality Workplace include the tasks for installation, configuration and integration of one syngo MMWP 2010A (VE40A).
1	G syngo.via CT CI Eng Classroom (No T&L) Tuition for (1) government attendee to attend a Classroom Course of choice at one of the Siemens training centers. This educational offering must be completed (12) months from install end date. If training is not completed within the applicable time period, Siemens obligation to provide the training will expire without refund.
14	Apps Training and Basic Config 1day Apps Training and Basic Config 1day On-Site Application Training - targeted to give the user a solid base for understanding and applying syngo.via workflows and to operate the system within the clinical routine. The training is focused on three key users which have to be selected.
1	syngo.via for Clinical Administrators

Qty	Item Description
1	Virtual syngo.via IT Admin Training
1	VIA Srvr Excel L XL Promo This promotion enables customers with purchase of a Siemens syngo.via system which includes Server hardware, syngo.via base license and corresponding user licenses a price reduction in the amount of for the syngo.via server Excel Edition, Server HW Config L, or Server HW Config XL. To qualify, Customer's binding purchase order must be received by Siemens on or before March 31, 2013 and syngo.via system delivery if not purchased with a Siemens scanner, must occur no later than September 30, 2013.
1	VIA Advanced User Promo This promotion enables customers with purchase of a Siemens syngo.via system and Web Reporting license which includes Server hardware, syngo.via base license and corresponding user licenses a price reduction in the amount of for the syngo.via WebReport Base Package. To qualify, Customer's binding purchase order must be received by Siemens on or before March 31, 2013 and syngo.via system delivery if not purchased with a Siemens scanner, must occur no later than September 30, 2013

OPTIONS:

Qty	Item Description
1	HP Rack 14 Units 19" HP Rack Type Rittal for syngo(r).via server configurations. Physical Characteristics: Rack S10614
1	UPS 100/110/120/127 V Uninterruptible Power Supply for HP server with 3KVA capacity. The HP 3KVA UPS requires 2 units height in the rack.

syngo.via - Upgrades and Options for Installed Base VA11/VA10

All items listed below are included for this system: (See Detailed Technical Specifications at end of Proposal.)

Qty	Item Description
4	syngo.via Advanced User #1+ The additional syngo.via Advanced User license provides Advanced 2D, 3D, 4D image reading capabilities for an additional Advanced User
1	Server HW Config XL syngo.via server hardware configuration XL
1	Software License Ext. Server HW XL Mandatory license extension for embedded applications on Hardware systems with more than one CPU. Second CPU license.
1	HP Care Pack. 3y 13hx5d HW Support HP Care Pack Services upgrade or extend the standard warranty with enhanced, customized on-site and remote support for hardware for 3 years.
1	PACS-Driven Implementation Pkg. This PACS-Driven Implementation Package includes installation and integration services for syngo.via in a radiologic workflow mainly supported by the PACS functionality. This package includes professional services, such as: - Installation of the syngo.via server software on the server hardware - Installation of the syngo.via client software on one clinical workplace for one user - Connection to up to 5 DICOM nodes - Image call-up of syngo.via from the PACS' user interface - Integration of syngo.via into the IT infrastructure using Active Directory, if applicable - Configuration of basic syngo.via workflows and rules - Integration of one syngo.via client workplace with one syngo MultiModality Workplace 2009A.
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1	VIA Govt Trng in RIS Imp Per agreement, credit for initial training in Basic Implementation 14412664

Qty	Item Description
1	License Multi Server Access The Multi Server Access Feature provides easy access to examinations which are distributed over different syngo.via servers (up to three servers are supported). The feature is available for syngo.via desktop integration scenarios where the PACS/RIS application is the leading system in customer's reading workflow and triggers the context-specific syngo.via launch (e.g. based on Study UID). This PACS/RIS call-up launches syngo.via studies automatically for reading even if they are located on different syngo.via servers in multiple clinical areas (e.g. Radiology, Cardiology, Neurology). Scope of Delivery: Software License
1	Prof.Serv. for MultiServerAccess Configuration of syngo.via Multiserver
1	Server HW Installation Service Basic installation service for the syngo.via server hardware with the operating system at the customer's site. Integration into the Local Area Network of the customer and to Siemens Remote Service over internet connection.
3	VIA Govt Server HW Install Per agreement, credit for syngo.via hardware installation by 3rd party integrator 14412656
1	syngo.via Advanced User #1 One Advanced User License of the syngo.via client server solution for multi-modality image reading. It provides 2D, 3D, 4D image reading capabilities at almost every workplace for various modalities (e.g. CT, MR, PET/CT, CR, XA image types). The syngo.via client runs on standard Windows computers in the network and integrates into radiologist's reading workplace (RIS; PACS) for efficient image reading based on a wide range of imaging applications (advanced visualization applications) for different clinical cases. Those applications are available as additional options for syngo.via. The syngo.via licensing model is flexible and tailored to the number of concurrent users (users working at the same time). The service support for syngo.via requires the provision of an administrator with dedicated tasks and a minimum broadband Internet connection bandwidth.

OPTIONS:

Qty	Item Description
1	UPS 100/110/120/127 V Uninterruptible Power Supply for HP server with 3KVA capacity. The HP 3KVA UPS requires 2 units height in the rack.
1	HP Rack 14 Units 19" HP Rack Type Rittal for syngo(r).via server configurations. Physical Characteristics: Rack S10614

Detailed Technical Specifications

SOMATOM Definition AS (AS+ FAST CARE)

/ Product	Description
SOMATOM Definition AS(AS+FAST CARE)	<p>The SOMATOM Definition AS (AS+ FAST CARE, 128-slice configuration) is founded on Siemens' proprietary UFC detector system and the revolutionary STRATON X-ray source. In combination with Siemens' z-Sharp Technology, FAST (Fully Assisting Scanner Technologies) and CARE (Combined Applications to Reduce Exposure) solutions as well as Siemens exclusive CT Clinical Engines options, the SOMATOM Definition AS (AS+ FAST CARE, 128-slice configuration) offers unprecedented image quality and detail at significantly reduced patient exposure, as well as substantially increased diagnostic speed and confidence thus raising the standard of patient-centric productivity.</p> <p>The STRATON source provides direct oil cooling of the anode, eliminating the need for heat storage capacity (0 MHU). The resulting small and compact design enables an unprecedented cooling rate of 7.3 MHU/min as well as reliable performance even when operating at a very high rotation time of 0.30 sec. In combination with the HeartView CT option temporal resolution of 150 ms of the SOMATOM Definition AS (AS+ FAST CARE, 128-slice configuration) allows to reliably scan even high heart rates, e.g. in acute chest pain evaluation, in coronary visualization, and in functional analysis of the heart.</p> <p>Together with the unique z-Sharp Technology that routinely enables the industry's highest isotropic and scan field position independent spatial resolution of up to 0.24 mm voxel size, it visualizes the smallest anatomical structures with exceptional quality, whether the complex inner-ear bones, the finest details of the coronary tree or intracranial, pulmonary, mesenteric, renal and peripheral vessels. It also helps to perform accurate stenosis measurements or stent planning with outstanding precision. Neuro head image quality is significantly improved with Neuro BestContrast, by optimizing grey/white matter differentiation without increase in radiation dose.</p> <p>The UFC (Ultra Fast Ceramics) detector of the SOMATOM Definition AS (AS+ FAST CARE, 128-slice configuration) acquires 128 slices per rotation.</p>

/ Product	Description
<p>(Continued)</p> <p>SOMATOM Definition AS(AS+FAST CARE)</p>	<p>In combination with its 78 cm large bore, 200 cm scan range (optional), and the 100 kW (depends on clinic network) generator power, it adapts to virtually any patient independent of size or condition, helping to save precious time from scan to diagnosis to treatment. When doing interventional CT for example, the easy patient access enables fast positioning of interventional instruments and thus provides a larger and more comfortable sterile environment. Or for emergency room examinations, the large bore of the the SOMATOM Definition AS (AS+ FAST CARE, 128-slice configuration) virtually eliminates the necessity to reposition and adjust life support equipment. Additionally, positioning and scanning of bariatric patients is significantly simplified while improving patients comfort.</p> <p>With all this, the SOMATOM Definition AS (AS+ FAST CARE, 128-slice configuration) offers the unique combination of industry's highest image detail and industry's highest sub-millimeter volume coverage of 192 mm/sec enabling whole body examinations within a few seconds - adapting to challenging patients such as poly-trauma and incautious or uncooperative patients, leading to an improvement in image quality and patient comfort.</p> <p>Siemens has developed many significant products and protocols that follow the "As Low as Reasonably Achievable" (ALARA) principle to reduce radiation dose to the lowest possible level. This desire for as little radiation exposure as possible lies at the heart of our CARE – Combined Applications to Reduce Exposure - research and development philosophy. The SOMATOM Definition AS (AS+ FAST CARE, 128-slice configuration) consequently offers a unique portfolio of dose saving features; many of them being industry's first like the Adaptive Dose Shield, CARE kV or 70kV scan modes. Using Siemens' CARE solutions radiation dose can be significantly reduced compared to conventional CT systems.</p> <p>With the introduction of Siemens' unique FAST CARE platform, the SOMATOM Definition AS (AS+ FAST CARE, 128-slice configuration) is set to raise the standard of patient-centric productivity. Utilizing FAST – Fully Assisting Scanner Technologies -, typically time-consuming and complex procedures during the scan process are extremely simplified and automated, not only improving workflow efficiency, but optimizing the overall clinical outcome by creating reproducible results, making diagnosis more reliable and reducing patient burden through streamlined examinations.</p> <p>With its unique Adaptive 4D Spiral Plus scan mode (optional) the SOMATOM Definition AS (AS+ FAST CARE, 128-slice configuration) overcomes the coverage limitations in dynamic CT imaging when using a static detector and allows for up to 41,5 cm coverage in dynamic CT imaging.</p> <p>In addition the SOMATOM Definition AS (AS+ FAST CARE, 128-slice configuration) optionally offers a built in 3D minimal invasive suite, enabling 3D guided interventions with full control of the radiologist due to the all new wireless in-room control.</p> <p>Also the SOMATOM Definition AS (AS+ FAST CARE, 128-slice configuration) offers the widest range of clinical applications options, which allow performing everything from fast and confident diagnoses to comprehensive reporting in only a matter of minutes, reviewing results before the patient is off the table.</p> <p>1. Gantry: Aperture: 78 cm; power supplied via low-voltage slip ring. Scanning system: Detector system based on Siemens' proprietary UFC (ultra fast ceramics) with 47,104 elements, 128 detector electronic channels (DAS) utilized for up to 128 slices/rotation acquisition, and 1,472 measuring channels per slice (The measuring system can contain replacement components).</p> <p>In cases of very low signal at the detector (e.g. when scanning bariatric patients), the Adaptive Signal Boost improves image quality by amplifying individual pixels based on an analyzation of the surrounding image data. It reduces streaks and noise and maintains the correct HU values for large patients.</p> <p>Spiral acquisition modes: 128 x 0.6 mm, 64 x 0.6 mm, 20 x 0.6 mm, 16 x 0.6 mm, 8 x 0.6 mm, 32 x 1.2 mm, 16 x 0,3mm (optional with z-UHR).</p> <p>Sequence acquisition modes : 128 x 0.6 mm, 60 x 0.6 mm, 12 x 0.6 mm, 8 x 0.6 mm, 2 x 1 mm, 6 x 1.2 mm, 32 x 1.2 mm, 12 x1.2mm, 1 x 5 mm, 1 x 10 mm. Three laser light markers: Horizontal, sagittal, and vertical laser light that shows the isocenter position of the scan plane.</p> <p>Three laser light markers: Horizontal, sagittal, and vertical laser light that shows the isocenter position of the scan plane.</p> <p>2. Tube Assembly:</p>

/ Product	Description
<p>(Continued)</p> <p>SOMATOM Definition AS(AS+FAST CARE)</p>	<p>Source: STRATON high performance X-ray source. Tube current range: Single source 20- up to 800 mA; Tube anode heat storage capacity 0 MHU. Cooling rate 7.3 MHU/min (5,400 kJ/min). Focal spot size according to IEC 60336: 0.7 x 0.7 mm/7°, 0.9 x 1.1 mm/7°. Computer controlled monitoring of anode temperature, Multifan principle with flying focal spot.</p> <p>3. High Power X-ray Generator: Microprocessor-controlled, low-noise high-frequency generator with integrated, automatic self-testing system for continuous monitoring of operation. Settings: High-voltage range 70, 80, 100, 120 and 140 kV; power max. 100 kW (depends on clinic network), adjustable in fine steps.</p> <p>4. z-Sharp Technology: The unique STRATON X-ray source utilizes an electron beam that is accurately and rapidly deflected, creating two precise focal spots alternating 4,608 times per second. This doubles the X-ray projections reaching each detector element. The two overlapping projections result in an oversampling in z-direction. The resulting measurements interleave half a detector slice width, doubling the scan information without a corresponding increase in dose. Siemens' proprietary UFC (Ultra Fast Ceramic) detectors and the corresponding 128-slice detector electronics enable a virtually simultaneous readout of two projections for each detector element – resulting in a full 128-slice acquisition. z-Sharp Technology, utilizing the STRATON X-ray sources and the UFC detectors, provides scan speed independent visualization of 0.33 mm isotropic voxels and a corresponding elimination of spiral artifacts in the daily clinical routine at any position within the scan field.</p> <p>5. Control and Evaluation Unit: Control box: CT control with patient intercom, user-recordable patient instruction system, 30 automatic patient instruction (API) text pairs are available in nine languages.</p> <p><i>syngo</i> Acquisition Workplace: The <i>syngo</i> Acquisition Workplace provides an intelligent and reliable workflow for data acquisition, image reconstruction and routine post-processing at the CT scanner. Built on the unique <i>syngo</i> platform, the <i>syngo</i> Acquisition Workplace is intuitive and user friendly. Computer system: High-performance computer with 1x Xeon QC6700, 2.66GHz, NVIDIA Quadro FX1700 DVI graphics card for fast 3D post-processing. High resolution, flicker free, 19-inch (48 cm) color flat panel display for medical diagnostic applications combining the demanding requirements of medical imaging with the advantages of liquid crystal displays. This display provides a resolution of 1280 x 1024 and has a wide viewing angle, features high contrast even under high ambient light conditions. Display light output stability is ensured by controlled backlight throughout the whole lifetime. Keyboard and mouse, 8 Gbyte RAM, 146 Gbyte image storage for 260,000 uncompressed images, CD-R 700 MB for 1,100 images. DVD DICOM with 4.7 GB media for 8,400 images. External USB 2.0 devices for data storage are supported (recommended: Iomega 160 Gbyte External Hard Drive Hi-Speed USB 2.0; Maxtor One Touch 160 Gbyte External Hard Drive).</p> <p>6. CT Image Computer System: Reconstruction computer for the preprocessing and reconstruction of the CT raw data. The reconstruction computer contains of a cluster of 2,2 GHz dual kernel high-performance processors performing the preprocessing and reconstruction of the CT data with up to 40 images per second. The raw data memory is 750 Gbyte.</p> <p>The Extended Raw Data Storage (optional) allows for extended storage capacity of raw data to 2.7 TB.</p> <p>7. Cooling System: SOMATOM Definition AS (AS+ FAST CARE, 128-slice configuration) can be equipped with either air or water cooling adapting to your room requirements. This optimizes system availability independently of the ambient conditions and reduces expensive reconstruction costs. System operating temperature: 18-28°C, 18 - 75 % rel. humidity (not condensing).</p> <p>8. <i>syngo</i> User Software: <i>syngo</i> features an intuitive and thus easy-to-learn user interface developed from prototypes in close cooperation with users. <i>syngo</i> visualizes the examination in individual process steps on so-called task cards, such as patient registration or examination card. A large number of functions and input parameters as well as the language used can be selected according to individual requirements. Frequently repeated processes can be automated and saved.</p> <p>Patient registration: The system can accept patient data in different ways. These include entering the data via keyboard or transfer of a worklist via network. DICOM Worklist: Software module for accepting lists of patient data and exam requirements from a Radiology Information Systems (RIS) via DICOM Get Worklist functionality. The program enables very efficient working and ensures consistent patient data. In emergency cases, fast registration is possible. Here the system automatically assigns an emergency number which can later be replaced by the actual patient number.</p>