

## REQUESTING SERVICE: MEDICINE SERVICE/CARDIOLOGY

SHIP TO: CHIEF, A&MM  
V.A. Medical Center  
700 SOUTH 19TH ST  
BIRMINGHAM, AL 35233

Line #	Description	Qty
1	Advanced Package Upg ISCV 3	1

This option provides an upgrade to IntelliSpace Cardiovascular 3.x Advanced Package.

Philips IntelliSpace Cardiovascular is a software application designed specifically with you in mind to help streamline clinical workflow and improve operational performance across your entire cardiovascular service line. The IntelliSpace Cardiovascular Workspace is at the heart of the solution and provides instant access to all relevant cardiovascular images and information anytime, virtually anywhere. \*

**\* IMPORTANT NOTE: It is the user's responsibility to ensure that Philips network requirements (such as performance, VPN) for IntelliSpace Cardiovascular are met.**

A graphical, panoramic, chronological overview of your patient's cardiovascular care continuum helps you to improve the quality of cardiac care. Access to advanced clinical tools to perform comprehensive analysis and reporting allows for faster and more effective cardiac care treatment decisions.

IntelliSpace Cardiovascular offers two Workspace layers, the Patient-centric Workspace where you can see an overview of your patient with applets such as Image Viewer applet and Document Viewer applet and the User-centric Workspace which hosts applets such as Worklists and Search.

The software includes utilities for system administration that allows customization of the workspace configuration tools, lists, and user privileges.

Once the core of IntelliSpace Cardiovascular software is in place additional clinical applications and concurrent users can be added in a modular fashion. The system is easily scalable as institutions' needs change over time.

The software includes the Advanced Analytics tool for data mining purposes, pre-configured with several useful reports which help to analyze clinical and operational metrics. Additionally, a WebAPI is available which allows launching of a 3rd party web application based off the URL. Test server and client licenses are included in the IntelliSpace Core product. Users have access to the following applets in the IntelliSpace Cardiovascular Workspace:

- Search Applet
- Worklists Applet
- Cardiology Timeline
- Document Viewer Applet
- Image Viewer Applet
- DICOM ECG Viewer Applet

The software includes concurrent user licenses for the Workspace and Production Workflow environment which provides floating access to interact with a single IntelliSpace Cardiovascular database for accessing patients and exams. While the quantity of Workspace clients is uncontrolled, the total number of concurrent user licenses available determines the maximum amount of simultaneous users at any moment in time.

The Production Workflow environment is a robust multimodality cardiology image management, analysis and reporting solution that provides patient centric access to cardiology data and

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examinations. The system is highly configurable, scalable and customizable with the potential, via optionally available software licenses, to support cardiovascular X-ray, ultrasound, nuclear medicine, computed tomography, magnetic resonance, and electrophysiology examination types. Furthermore, optional software is available to retrieve electrocardiograms from certain ECG management systems. IntelliSpace Cardiovascular performs the necessary functions for exam storage and review. IntelliSpace Cardiovascular additionally offers various analysis and quantification packages, clinical reporting and archiving features as optional functionality. This product also includes concurrent user licenses for cardiovascular ultrasound reporting provides floating access for a single user to generate echocardiography and vascular ultrasound clinical reports. The CV ultrasound reporting module automatically receives DICOM and DSR-TIFF exams and populates the clinical database, including select DICOM SR. IntelliSpace Cardiovascular supports DICOM SR that meets the DICOM standard structure\*, from any ultrasound modality (also supports legacy mappings for Philips systems: iE33, iU22, HD15, and CX50, EPIQ, as well as from the Siemens Sequoia (rev. 12.1) and GE Vivid I and Vivid 7 (rev 4)). IntelliSpace Cardiovascular also supports DSR-TIFF ultrasound exams imported from certain Philips legacy ultrasound systems.

End users can create user-defined measurements and calculations in IntelliSpace Cardiovascular as well as edit labels for the default set of measurements and calculations. Measurements can populate the end users' choice of pre-configured clinical report templates that include reporting profiles, finding codes (clinical statements) and measurements. Finding codes can be customized for site-specific protocols and requirements. User-defined macros can be configured for reporting efficiencies.

The reporting module provides decision support for wall motion scoring. Based on the clinician's wall scoring selection, a statement will be generated with the following format. Example: "There is a <size> <territory> wall motion abnormality with <abnormality range>." This statement, along with an anatomical or bulls-eye diagram, can be automatically incorporated into the clinical report. The module includes the SmartChart for vascular reporting for efficiency and simplification. Users can customize finding codes to describe stenosis and flow. The SmartChart will automatically populate the users' selections into the clinical report.

DICOM exams can be stored and displayed as defined in the IntelliSpace Cardiovascular DICOM Conformance Statement. IntelliSpace Cardiovascular supports standard DICOM functionality, including: importing exams from DICOM image acquisition devices, DICOM Query/Retrieve and DICOM Forward. IntelliSpace Cardiovascular can also export exams to other systems using FTP or DICOM Store SCU protocols. In addition, IntelliSpace Cardiovascular supports DICOM SR that meets the DICOM standard structure\*, from any ultrasound modality (also supports legacy mappings for Philips systems: iE33, iU22, HD15, CX50, and EPIQ, as well as from the Siemens Sequoia (rev. 12.1) and GE Vivid I and Vivid 7 (rev 4)). IntelliSpace Cardiovascular also supports DSR-TIFF ultrasound exams imported from certain Philips legacy ultrasound systems.

IntelliSpace Cardiovascular employs open architecture and industry standards-based design and is prepared for future growth. It will provide ready access and availability to past and present exams as well as final reports (if configured) as needed. IntelliSpace Cardiovascular is fully scalable from a simple DICOM exam recorder to a single workspace configuration up to a multi-site client/server cardiology workflow solution.

This article number further includes

- The core IntelliSpace Cardiovascular application.
- Ten single concurrent user viewing license provides floating access to interact with a single IntelliSpace Cardiovascular server and access exams. While the quantity of IntelliSpace Cardiovascular clients is uncontrolled, the total number of concurrent user licenses available determines the maximum amount of simultaneous users on the IntelliSpace Cardiovascular system at any moment in time.
- Cardiac X-ray viewing application (also used for generic viewing of other exam types).
- Cardiovascular ultrasound viewing application.

Line #	Description	Qty
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- DICOM archive connectivity, which provides the ability for IntelliSpace Cardiovascular to automatically store image studies on an external DICOM archive, such as a radiology PACS system. The DICOM archive connectivity feature transparently performs store, query, retrieve, and pre-fetch operations using the DICOM Store and DICOM Query/Retrieve protocols. To function, the external DICOM archive must support DICOM Storage Commit that sends IntelliSpace Cardiovascular a verification message that the image studies have been received successfully. Additional services costs are required to configure DICOM archive connectivity.

IMPORTANT NOTE: DSR-TIFF image studies will be converted to DICOM format before being forwarded to the external DICOM archive. Due to limitations of the DSR-TIFF format, image studies that are acquired as DSR-TIFF but archived as DICOM will lose color suppression and 3D ultrasound volumes when retrieved from the external DICOM archive. Measurements that were performed on the DSR-TIFF image studies will still be present on the DICOM version of the images following retrieval from the archive.

Measurements will also be available via clinical reports stored in the IntelliSpace Cardiovascular database. There may be other limitations when utilizing an external DICOM archive. Customers are advised to consult with their Philips representative for further information.

Note

- Concurrent user licenses for remote users, clinical reporting, analysis, and other functionality must be ordered separately.

For optimal image quality, Philips strongly recommends using the Barco MDRC-1219 and MDRC-2224 medical grade displays with all IntelliSpace Cardiovascular cardiology workspaces.

The Barco MDRC-1219 (standard 19-inch size) and MDRC-2224 (optional 24-inch size for use with EP applications) medical grade displays offer high brightness, a wide viewing angle and excellent grayscale reproduction.

Compatibility

For the latest DICOM interoperability information, refer to the IntelliSpace Cardiovascular DICOM Conformance Statement at [www.philips.com](http://www.philips.com).

\* for the following

TID 5200 Adult Echo cardiology Procedure Report

TID 5100 Vascular Ultrasound Report

TID 995300 Philips Pediatric Ultrasound Report

TID 5220 Pediatric, Fetal and Congenital Cardiac Ultrasound Report

2

**2D Bundle 1-15 CU**

**4**

a2DQ Ultrasound Quantification

The concurrent user license for two-dimensional ultrasound quantification (a2DQ) provides a floating license for a single user to utilize the quantification software.

a2DQ is powered by the 2D Quantification plug-ins of Philips QLAB 10. Users can select still frames or loops and append these to the patient exam in IntelliSpace Cardiovascular. The still frames or loops will be visible in the IntelliSpace Cardiovascular thumbnail page and available for review. To improve reporting efficiency and clinical workflow, measurements acquired on QLAB can be stored to the IntelliSpace Cardiovascular database and are available in the IntelliSpace Cardiovascular Work Area, trending chart and in the clinical report (if configured). When a user clicks on a a2DQ measurement in IntelliSpace Cardiovascular, the system will display the corresponding image the measurement was acquired from.

Line #	Description	Qty
	<p>Cardiac Motion/Mechanics Quantification (aCMQ) plug-in</p> <p>Provides many robust and objective tools for assessment of Left Ventricle global function and regional wall motion, deformation and timing using next generation of 2D speckle tracking technology. aCMQ has an ability to extract a wide range of motion parameters from stored datasets at any time after the actual scan. This facilitates quality assurance, collaborative clinical decision making and case reviews without the need for re-scanning the patient.</p> <ul style="list-style-type: none"> <li>• aCMQ includes direct access to a suite of methods either based on 2D speckle tracking technology</li> <li>• Regional and global Strains among other parameters such as rotation and transmural torsion</li> <li>• aCMQ adopts the LV 17 segmentation model and produce comprehensive regional (by view), by layer (Transmural, Endo, Epi) and global function using easy to read Bulls Eye plots</li> <li>• The free Strain method offers a simple and intuitive way to assess local tissue motion and deformation</li> <li>• AQ/CK and Tissue Motion Annular Displacement (TMAD) methods facilitate Global Left Ventricle function, volume and EF assessment</li> </ul> <p>aCMQ stress</p> <p>Designed to help objectify Stress Echo reading/review. aCMQ Stress plug-in offers a unique combination of Philips 2D PureWave images, Next generation of 2D speckle tracking and user a interface specifically designed for stress echo exams and around stress Echo users.</p> <ul style="list-style-type: none"> <li>• User Interface that auto adapts to the Stress acquisition protocol</li> <li>• Facilitating navigation and workflow with Stress Echo analysis</li> <li>• Compatible with multiple cardiac views and stress echo stages</li> <li>• Transmural, Endo+Epi, Endo, Epi layer waveforms and values from a single computing step</li> <li>• Comprehensive Summary page that report LV 17 segments bulls-eye plots from each Stress stage side by side</li> <li>• Cardiac phases overlay, AVO, AVC, MVO,MVC mechanical events via DICOM SR or manual entry</li> <li>• Requires aCMQ plug-in</li> </ul> <p>Intima Media Thickness (IMT) Quantification Plug-In</p> <p>Provides automated measurements of intima media thickness in carotids and other superficial vessels.</p> <p>Eliminates the laborious process of manually positioning cursors, minimizing the time needed to complete an IMT study.</p> <p>Region of Interest (ROI) Quantification Plug-in</p> <p>Designed to increase the consistency and reliability of acoustic measurements while reducing the effort required to successfully carry out ROI analysis for contrast imaging, tissue analysis and color Doppler.</p> <p>Strain Quantification (SQ) Plug-in</p> <p>For evaluation of regional myocardial function, assessment of synchronicity and guidance during biventricular pacing procedures.</p> <p>Measures the myocardial velocity TDI data set.</p> <p>Derives the displacement, strain and strain rate along user-defined M-Lines.</p>	

Line #	Description	Qty
	Includes ability to overlay the opening and closing of aortic and mitral valves on SQ curves to evaluate Left ventricle mechanical events. User-selectable waveform display makes SQ curves easier to read. Notes <ul style="list-style-type: none"> <li>Compatible with iE33, iU22, CX50, HD15, HD11, SONOS, and HDI systems</li> <li>Requires IntelliSpace Cardiovascular Core Software</li> </ul>	
3	<b>3D Bundle 1-15 CU</b> 3DQ Ultrasound Quantification  The concurrent user license for three-dimensional ultrasound quantification (3DQ) provides floating access for a single user to utilize the quantification software. 3DQ is powered by the 3D Quantification plug-ins of Philips QLAB 10. Users can select still frames or loops and append these to the patient exam in IntelliSpace Cardiovascular. The still frames or loops will be visible in the IntelliSpace Cardiovascular thumbnail page and available for review. To improve reporting efficiency and clinical workflow, measurements acquired on QLAB can be stored to the IntelliSpace Cardiovascular database and are available in the IntelliSpace Cardiovascular Work Area, trending chart and in the clinical report (if configured). When a user clicks on a QLAB measurement in IntelliSpace Cardiovascular, the system will display the corresponding image the measurement was acquired from. Cardiac 3D Quantification (3DQ) Plug-in Provides easy access to Live 3D, 3D Zoom, Full Volume and 3D Color data sets from the iE33, iU22 and SONOS 7500 Live 3D systems. Offers viewing, cropping, slicing and quantification such as distance measurements, area, Bi-plane LV Volume, Ejection Fraction (EF) and LV Mass calculations. 3DQ also provides Multi-Planar Reconstruction (MPR) views for unlimited anatomical planes from 3D volume and new 3D iSlice generation. Advanced 3D Quantification (3DQA) Plug-in Provides display and manipulation of dynamic three-dimensional rendering and Left ventricular (LV) volumes from the SONOS 7500 Live 3D and iE33 systems. <ul style="list-style-type: none"> <li>Displays 3D Full volume renderings in grayscale or advanced colorization (map H)</li> <li>Multi-Planar Reconstruction (MPR) views provide unlimited anatomical planes from 3D volume</li> <li>New iSlice generation now compatible with all Philips Live 3D datasets including color data</li> <li>Flexible short and long axis slicing tool to facilitate LV function visualization assessment</li> <li>Measurements of LV endocardial volumes, stroke volume (SV) and true 3D ejection fraction (EF) using a semi-automated border detection in 3D space</li> <li>Computes global and regional LV volumes based on the ACC's 17-segment model</li> <li>Displays global LV volume waveform and provides selective display of 17 regional volume waveforms</li> <li>Timing assessment for each 17 minimal regional volumes and determines a 3D synchronicity index for all volume segments or a user-selectable group of volume segments</li> <li>Comprehensive report with summary of synchronicity indexes, regional Timing and Radial Excursion Parametric Images in bull's eye representation</li> </ul>	3
4	<b>MVN 1-15 CU</b> MVN Ultrasound Quantification  The concurrent user license for mitral valve quantification (MVN) provides floating access for a single user to utilize the quantification software. Mitral Valve Quantification plug-in quantifies the three-dimensional (3D) datasets from the Philips Live 3D TEE iE33 Ultrasound systems. MVN adds precise two and three-dimensional	5

Line #	Description	Qty
	<p>quantification of the mitral valve anatomy and associated structures based on data acquired with Philips Live 3D Echo and the X7-2t transducer and compact X7-2t transesophageal transducers which provides views never seen before. With MVN QLAB quantification data is available specifically designed for the first time for cardiologists, cardiac surgeons, anesthesiologists, and interventionalists.</p> <ul style="list-style-type: none"> <li>MVN offers three use-models/protocols to assist clinicians in defining 3D landmarks on MPR views</li> <li>Build a 3D model of the mitral valve annulus, anterior and posterior leaflet segmentation</li> <li>Improved coaptation line and leaflet trace</li> <li>Mitral valve spatial relationship with the papillary muscles and aortic valve</li> <li>The MVN 3D model can be manipulated in the 3D space and be overlaid on the anatomical 3D view of the mitral valve</li> <li>User-defined measurement set is generated and displayed</li> <li>Comprehensive report of Mitral valve, annulus and leaflets</li> </ul> <p>Notes</p> <ul style="list-style-type: none"> <li>Compatible with iE33 systems with Live 3D TEE transducers</li> <li>Requires IntelliSpace Cardiovascular Core Software</li> </ul>	
5	<p><b>Diagnostic Guidance</b></p> <p>IntelliSpace Cardiovascular Diagnostic Guidance</p> <p>IntelliSpace Cardiovascular Diagnostic Guidance is an application that allows users to create rules to define relationships among finding codes, measurements and other items that are used within ultrasound reporting and to execute these rules on these items during reporting. The tool warns users of conflicts, errors, omissions or patterns that would otherwise go unreported or mistakenly reported and allows them to review their interpretations before report finalization. The tool has two uses:</p> <ul style="list-style-type: none"> <li>Evaluate the rules in these Rulesets against the data in the currently opened study. This allows contradictory findings, recommended findings, out-of-limits measurements, and other items to be flagged for the user, allowing changes to be made before study finalization.</li> <li>Alternatively, the RuleSet can be evaluated retrospectively against the contents of the clinical database. Rule violations in all pertinent prior studies can be found using this technique, and reports in various formats can be generated.</li> </ul> <p>Notes</p> <ul style="list-style-type: none"> <li>Requires IntelliSpace Cardiovascular Core Software</li> </ul>	1
6	<p><b>Rack 12 Bay</b></p> <p>1x NETGEAR ReadyNAS 3312 (24TB)</p>	4
7	<p><b>16 Port Network Switch</b></p> <p>Network switch (16 switched 10/100/1000 BASE-TX ports).</p>	1
8	<p><b>HQ Barco 19" Monitor</b></p>	28

Line #	Description	Qty
	<b>High quality professional LCD color monitor (19")</b>	
	Providing high brightness, a wide viewing angle and accurate grayscales.	
	<ul style="list-style-type: none"> <li>Display matrix: 1280x1024</li> </ul>	
9	<b>Barco Calibration Tool</b>	<b>1</b>
	The Barco Display Calibration tool is necessary to guarantee optimal image quality. Display calibration is important to meet the DICOM grayscale calibration standard.	
10	<b>SQL Server 2016 SWP</b>	<b>2</b>
	SQL Server 2016 Software Package. No licenses included.	
11	<b>SQL Server 2016 Server LIC</b>	<b>7</b>
	<b>SQL Server License</b>	
	Needed for each SQL instance. Extra needed: user cal license per named user or device cal per device.	
12	<b>SQL Server 2016 User CAL</b>	<b>20</b>
	<b>SQL Client Access license</b>	
	One required for every named user that accesses the system direct or indirectly. Only one user cal is needed per user regardless the amount of SQL servers accessed.	
13	<b>SQL Server 2016 Device CAL</b>	<b>10</b>
	<b>SQL Device Access license</b>	
	One required per device that are shared among users that don't have a user cal.	
14	<b>Diagnostic Guidance - Elite</b>	<b>1</b>
	<b>Features</b>	
	<b>Diagnostic Guidance</b>	
	- This consulting service is designed to ensure an optimized outcome following the deployment of the Diagnostic Guidance tool. Philips consultants will train the customer in the features, functionality and application of the Diagnostic Guidance Tool as well as assist the customer with Diagnostic Rule creation to optimize report accuracy.	
	<b>Workflow Consulting</b>	
	- Throughout the delivery of this service, a Philips consultant will work alongside the customer to learn about their organization and unique requirements, analyze current workflow practices, and facilitate a Kaizen workshop to identify process waste and inefficiency. The CTC will define a structured approach to achieve the desired future-state workflow and help the customer understand and best manage how the changes in workflow will impact key stakeholders. The CTC will assist the customer in developing key performance indicators to track measureable improvements in workflow.	
	<b>Engagement Deliverables</b>	
	Throughout the delivery of this service, a Philips consultant will work cooperatively with the customer.	

Line #	Description	Qty
	The following is a summary of deliverables the customer could expect:	
	<b>Diagnostic Guidance Rule Tool</b>	
	<ul style="list-style-type: none"> <li>• Diagnostic Guidance license installation and verification on test and production systems</li> <li>• Training on Diagnostic Guidance software module.</li> <li>• Instruction and assistance in the configuration, testing and verification of <b>up to 25 rules</b> utilizing the Diagnostic Guidance configuration tool (These 25 rules include suggested rules in support of ASE reporting standards)</li> <li>• Best practice and Diagnostic Guidance rule development recommendations</li> </ul>	
	<b>Workflow Consulting</b>	
	<b>Pre-Kaizen Preparation</b>	
	: <ul style="list-style-type: none"> <li>• Define project objectives and pre-define measureable outcomes</li> <li>• Identify Key Stakeholders</li> <li>• Definition of project success</li> <li>• Design initial Kaizen workflow, review clinical documentation and conduct policy assessments</li> <li>• Provide Kaizen Design Workshop session invitations to customer for distribution</li> </ul>	
	<b>Onsite Kaizen Design Workshop, Onsite</b>	
	<ul style="list-style-type: none"> <li>• Together with Kaizen team, document current and optimized future-state workflow design</li> <li>• Refine measureable reporting objectives</li> <li>• Customized Workflow</li> </ul>	
	Summary and Recommendation documentation may include:	
	<ul style="list-style-type: none"> <li>• Current and future state workflow diagrams</li> <li>• Analysis of effect upon workflow of other customer interfaces</li> <li>• Analysis of effect upon workflow for clinical documentation and patient reporting</li> <li>• Analysis of effect of workflow changes upon external departments</li> <li>• Analysis of operational and management reporting needs</li> </ul>	
	Post-Implementation Process Reinforcement:	
	Post-implementation operations analysis at three and six months following process roll out to include:	
	<ul style="list-style-type: none"> <li>• Follow up visits to occur at 3 month and 6 month intervals to gather metric data and measurements and provide recommendations for further optimization</li> <li>• Analysis of Key Performance Indicator measurements, review strategy and recommendations</li> </ul>	



Line #	Description	Qty
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- Workflow redesign sessions may be recommended and are included with this package

This consulting engagement is delivered using a combination of on-site and remote work by Philips Consultants.

15	<b>ISCV Advanced Upgrade Training Service</b>	<b>1</b>
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This item represents the ISCV Advanced Upgrade Package. The Statement of Work (SOW) or Project Scope Document (PSD) describes the deliverables.

16	<b>ISCV Advanced Upg Implementation Svc</b>	<b>1</b>
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17	<b>New CV Solutions Core License</b>	<b>1</b>
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The IBE Core software for Xcelera facilitates bidirectional communication between Xcelera and HL7compliant information systems (HIS/CIS) and DICOM compliant imaging modalities and informationsystems.

The core solution consists of an Orion Rhapsody Integration Engine and the Integration API Extension products (configurations) and includes a test server license.

IBE for Xcelera be further extended with optional licenses to collaborate in an integrated healthcare enterprise environment, including:

- ADT/Orders and outbound
- Unformatted Results
- Formatted Echo Results option to forward finalized echocardiography clinical reports to certain EMR, CIS and other central repository systems
- Multiple HIS/CIS interface option to support up to four simultaneous connections to hospital information systems and clinical information systems
- DICOM MWL (Modality Work-List) option to forward scheduled orders to certain compatible imaging modalities
- DICOM MPPS (Modality Perform Procedure Step) option to exchange demographics and procedural information with certain compatible imaging modalities
- Xper IM option to provide bidirectional data exchange with the Philips Xper IM cath lab management system, including utilizing Xcelera from the Xper IM application to review multimodality patient exams inside the cath lab and storing cath lab procedural documentation on the Xcelera server for access across the enterprise
- ECG Management option to provide access to electrocardiograms from certain ECG management systems from Xcelera, including Philips IntelliSpace ECG and GE MUSE

Requires:

- NITD593 New Xcelera/Echo theme License
- Xcelera 3.3 or newer
- Microsoft Windows Server 2008 R2
- Microsoft SQL 2008 R2
- Installation as member of the same domain as Xcelera

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Note:

- For more detailed information relating to HL7 transactions refer to the HL7 Interface Specification documentation

The IBE Server software license provides a duplicate server license key for IBE for Xcelera and purchased optional functionality so that an isolated test environment can be staged. The Test Server License can be utilized by hospital IT personnel for acceptance testing, pre-testing of software patches and upgrades in the local network environment, workflow analysis, and interface verification purposes. However, the license cannot be applied to clinical practice.

- Professional Services charges apply

Compatibility

For the latest HL7 interoperability information, refer to the Xcelera/IBE HL7 integrations document  
For the latest DICOM interoperability information, refer to the Xcelera/IntelliSpace Cardiovascular DICOM Conformance Statement

#### **Customer Responsibilities for All Interfaces supported on IBE for Xcelera**

The customer is responsible to ensure that each modality intended to be supported are licensed and enabled for DICOM MWL protocol. A dedicated project resource(s) with extensive knowledge of the external system(s), HL7 and DICOM protocols ( for MWL and MPPS) and the authority to represent the clinical reporting needs and requirements of the organization and the clinical end-user should designated as a primary point-of-contact during implementation.

**Note: IntelliBridge Enterprise requires a Software Maintenance Agreement with a minimum 1 year term**

**989801200779 New CV Solutions Core Impl Services** : This item represents the implementation services. The Statement of Work (SOW) or Project Scope Document (PSD) describes the implementation deliverables.

18	<b>New Xcelera/Echo Theme License</b>	<b>1</b>
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This option facilitates workflows in IntelliSpace Cardiovascular (or legacy Xcelera) Echo module and required to provide the Orion Rhapsody license to support Echocardiography workflow using ISCV (or legacy Xcelera)

Requires:

- NITD591 New CV Solutions Core License or NITD592 Existing CV Solutions Core License
- IntelliSpace Cardiovascular R1.2 or later (or legacy Xcelera R3.3 or later)

Note:

- There are no Professional Services associated with this option

19	<b>HL7 ADT Interface</b>	<b>1</b>
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This option facilitates the flow of HL7 admit, discharge and transfer (ADT) messages between the hospital information system (HIS) and Philips clinical systems. IntelliBridge Enterprise interprets the ADT messages and stores the patient demographic data into the Xcelera database.

The following message types are among those supported for Xcelera:

Line #	Description	Qty
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- Patient Registration/Admission: The HIS system registers and/or admits patients and distributes this information to the connected systems utilizing HL7 ADT messages.
- Patient Update/Merge: The HIS system will inform the connected systems of any updated information regarding patients in relation to their visit to (outpatient) or stay in (inpatient) the hospital.

Requires:

- NITD591 New CV Solutions Connection License or NITD592 Existing CV Solutions Connection License
- **989801200796 ISCV ADT Interface Impl Services** as professional implementation services.

Note:

- One additional option is required for each additional inbound interface
- For more detailed information relating to HL7 transactions refer to the HL7 Interface Specification documentation for Xcelera
- Professional Services charges apply

## 20 HL7 Orders Interface 1

This option facilitates the transmission of HL7 ORM/SIU messages between the hospital order management/scheduling system and Philips clinical systems. IntelliBridge Enterprise will interpret these HL7 ORM/SIU messages and propagate the Examination (Study) related information into the relevant clinical database.

Requires:

- NITD591 New CV Solutions Connection License or NITD592 Existing CV Solutions Connection License
- 989801200789 ISCV Orders IF Impl Services as implementation services

Note:

- One additional option is required for each additional inbound interface
- For more detailed information relating to HL7 transactions refer to the HL7 Interface Specification documentation
- Professional Services charges apply

## 21 Formatted Output 1

The Xcelera Formatted Echo Results interface license provides the export of clinical reports to an external CIS or clinical repository via HL7 messages.

The exported clinical reports have a consistent appearance to those displayed on the Xcelera ultrasound review application. Due to restrictions in the HL7 syntax, any embedded images and graphics (JPEG) on the original clinical report are removed before the report is sent to the external system.

Additional data is encoded into the HL7 result message so that the CIS or clinical repository can compose a URL type (Web) message or an UNC type (shared file directory) message from this data. For example:

Line #	Description	Qty
	<ul style="list-style-type: none"> <li>A URL message can be applied e.g. by an electronic medical system to retrieve the complete clinical report in HTML format directly from Xcelera</li> <li>A UNC message can be applied e.g. by a clinical repository system to retrieve the complete clinical report in PDF format directly from Xcelera</li> </ul>	

The interface provides the distribution of echo clinical reports to the enterprise, such as an electronic medical record (EMR) or hospital information system (HIS). Additionally, the Formatted Echo Results interface optimizes utilization of the Xcelera system by enhancing clinical information sharing across the healthcare enterprise. The specific fields and format that can be exported are described in the Xcelera Formatted Echo Results specification document.

Facilitates selection of the following:

- HL7 UNC; An HL7 message containing a UNC reference can be applied by a compatible 3rd party system to directly retrieve a copy of a complete clinical report in PDF or TIFF format.
- HL7 URL; A HL7 message and sent to a compatible 3rd party system with a URL to a stored report
- ASCII Formatted Text; A ASCII formatted text report can be in a HL7 message and sent to a compatible 3rd party system
- HL7 Encapsulated PDF; A PDF can be encapsulated in a HL7 message and sent to a compatible 3rd party system

Requires:

- NITD591 New CV Solutions Connection License or NITD592 Existing CV Solutions Connection License

Note:

- For more detailed information relating to HL7 transactions refer to the HL7 Interface Specification documentation
- Professional Services charges apply

**989801200784 ISCV Formatted Output IF Impl Services** : This item represents the implementation services. The Statement of Work (SOW) or Project Scope Document (PSD) describes the implementation deliverables.

22	<p><b>3rd P. Study Timeline IF</b></p> <p>IMPORTANT: You can only quote a 3rd Party Study Timeline interface, if your counterpart in the market from Customer Operations has reviewed and approved the customer requested workflow to quote the validated 3rd party system interface.</p> <p>The 3rd party Interoperability capability of IntelliSpace Cardiovascular supports the processing of (HL7) Study Notification messages or register studies via DICOM C-Find query from a 3rd party system to populate correlated cardiovascular studies (from the 3rd party) onto the cardiology timeline and to facilitate the launching of these studies from within IntelliSpace Cardiovascular with or without the WebAPI. Refer to the HL7 Interface definitions for IntelliSpace Cardiovascular for detailed info and examples of the (HL7) Study Notification.</p> <p>Two methods of (integrated) 3rd party PACS viewing are supported (such dependent of the interface capabilities of the 3rd party PACS)</p>	1
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Line #	Description	Qty
	<ul style="list-style-type: none"> <li>Integrated Web viewing: 3rd party PACS provides a URL construct in the Study Notification message to launch the related study using the 3rd party PACS Web viewing capability.</li> <li>Integrated (DICOM) Viewing of IntelliSpace Cardiovascular: 3rd party PACS provides a (DICOM) Study UID of the related study, which allows IntelliSpace Cardiovascular to make these images available via the Image Viewer Applet if the 3rd party PACS allows query and retrieve (DICOM Q/R) of these images and/or the report if included in the study.</li> </ul>	
23	<b>ISCV Formatted Output IF Impl Services</b>	<b>1</b>
	This item represents the implementation services. The Statement of Work (SOW) or Project Scope Document (PSD) describes the implementation deliverables.	
24	<b>Orders IF Impl Services</b>	<b>1</b>
	<b>Overview</b> <p>This service provides implementation of the IntelliBridge Enterprise Orders Interface. The Orders Interface receives inbound orders messaging and provides the data to the Philips application. Specific details on this interface may be found in the IntelliBridge Enterprise HL7 specification.</p> <p><b>Engagement Deliverables</b></p> <ul style="list-style-type: none"> <li>Installation, testing, and verification of the IntelliBridge Enterprise Orders Interface software</li> </ul> <p><b>Engagement Completion Criteria</b></p> <ul style="list-style-type: none"> <li>Verification by Philips that the IntelliBridge Enterprise Orders Interface can import and utilize orders messages for the test and/or production environments; which conform to Philips ORM message specifications, via TCP/IP communication</li> </ul> <p><b>Customer Responsibilities</b></p> <ul style="list-style-type: none"> <li>Provide interface analyst able to make mapping changes on HIS or enterprise integration engine needed to make HL7 transactions match the Philips specifications when needed</li> <li>Provide a clinical resource for verification of data as it has been populated in Philips application</li> <li>Make personnel and equipment available for testing</li> <li>Provide list of orderable procedures that may be received by the IntelliBridge Enterprise system</li> <li>Assure Philips applications are at the appropriate software revision for compatibility with IntelliBridge Enterprise</li> </ul> <p><b>Estimating Assumptions on Work</b></p> <ul style="list-style-type: none"> <li>The IntelliBridge Enterprise Orders Interface and services are delivered concurrently with implementation of the Philips solution</li> </ul>	

Line #	Description	Qty
	<ul style="list-style-type: none"> <li>Once implementation has begun, no significant changes that directly impact the Orders development will be made to the HIS/RIS or network topography until development is complete</li> <li>Before delivery of software and services occurs, site must be accessible through the Philips Remote Services Network</li> </ul> <p>Limitations on Work</p> <ul style="list-style-type: none"> <li>Mapping will be done at the time of interface implementation and is an iterative process through the testing period</li> <li>Mapping is limited to those fields available to IntelliBridge Enterprise as identified in the interface specification document</li> </ul>	
25	<p>ADT Interface Impl Services</p> <p>Overview</p> <p>This service provides implementation of the IntelliBridge Enterprise Admission, Discharge, and Transfer (ADT) interface. The ADT module receives inbound ADT messaging. Specific details on this interface module may be found in the IntelliBridge Enterprise HL7 Specification.</p> <p>Engagement Deliverables</p> <ul style="list-style-type: none"> <li>Coordination of all activities between the customer's project leader and Philips resources</li> <li>Project kickoff meeting, conducted as a telephone conference, to discuss project plan, work breakdown scheduling, and resource assignments</li> <li>Installation of the IntelliBridge Enterprise ADT module</li> <li>Testing and verification of the IntelliBridge Enterprise ADT module remotely by Philips in conjunction with a technical and clinical resource at the facility</li> </ul> <p>Engagement Completion Criteria</p> <ul style="list-style-type: none"> <li>Verification by Philips that the IntelliBridge Enterprise ADT module can import and utilize ADT messages for the test and/or production environments; which conform to Philips ADT message specifications, via TCP/IP communication</li> </ul> <p>Customer Responsibilities</p> <ul style="list-style-type: none"> <li>Provide interface analyst able to make mapping changes on HIS or enterprise integration engine needed to make HL7 transactions match the Philips specifications when needed</li> <li>Provide a clinical resource for verification of data as it has been populated in Philips application</li> </ul>	1

Line #	Description	Qty
	<ul style="list-style-type: none"> <li>Make personnel and equipment available for testing</li> </ul> <p>Estimating Assumptions on Work</p> <ul style="list-style-type: none"> <li>The IntelliBridge Enterprise ADT module interface is delivered concurrently with implementation of the Philips solution</li> <li>Once implementation has begun, no significant changes that directly impact the ADT development will be made to the HIS/RIS or network topography until development is complete</li> <li>Before delivery of software and services occurs, site must be accessible through the Philips Remote Services Network</li> </ul> <p>Limitations on Work</p> <ul style="list-style-type: none"> <li>Mapping will be done at the time of interface implementation and is an iterative process through the testing period</li> <li>Mapping is limited to those fields available to IntelliBridge Enterprise as identified in the interface specification document</li> </ul>	
26	<p><b>CV Solutions Core Implementation Services</b></p> <p>This item represents the ISCV CV Solutions Core implementation services. The Statement of Work (SOW) or Project Scope Document (PSD) describes the implementation deliverables.</p>	1
27	<p><b>ISCV 3rd P. Timeline IF Svc.</b></p> <p><b>Overview</b></p> <p>This service provides installation of the 3 party PACS support interface license and configuration of the ISCV system to support the processing of HL7 Study Notification messages from a 3 party PACS to populate cardiovascular studies from the PACS onto the cardiology timeline and facilitate the launching of these studies from within ISCV. Support from the hospital or PACS vendor may be needed to configure the 3 party PACS system to launch.</p> <p><b>Engagement Deliverables</b></p> <ul style="list-style-type: none"> <li>Installation of ISCV 3 party PACS support interface license</li> <li>Configuration of ISCV for viewing of 3 party PACS</li> </ul> <p><b>Engagement Completion Criteria</b></p> <p>Verification by the Philips Consultant that the ISCV can launch 3rd party PACS</p> <p><b>Customer Responsibilities</b></p> <ul style="list-style-type: none"> <li>Designate a principal contact that is familiar with the 3 party PACS system to make any configuration changes necessary on that system</li> </ul>	1

Line #	Description	Qty
	<ul style="list-style-type: none"> <li>Client will verify that their 3 party PACS system is at the required version of the software needed to interface to ISCV</li> <li>If the PACS system is not at the required version needed to interface with ISCV, client will take responsibility including all associated costs to upgrade the system to the needed version.</li> <li>Provide appropriate identification and access for the Philips Consultant(s) to access your site and ISCV system.</li> <li>Make personnel and equipment available for testing</li> </ul>	

### Estimating Assumptions on Work

Before delivery of software and services occurs, site must be accessible through the Philips Remote Services Network

28	Onsite ISCV PS Hours (8 Hours)	6
	IntelliSpace Cardiovascular Application Training, Onsite – 8hrs	

### Overview

A Philips Consultant(s) will provide IntelliSpace Cardiovascular application training to physicians, technologists, sonographers, and administrative staff on how to master new ways for collecting, analyzing, reporting, archiving, and maintaining clinical data within the IntelliSpace Cardiovascular application. Philips uses a “train the trainer” approach to the IntelliSpace Cardiovascular application training.

### Engagement Deliverables

- A customer specific training plan is developed
- A maximum of one (1) eight-hour day of training per quantity of service purchased, delivered consecutively during a single event.
- The number of training sessions held within the training day and the hours of training delivered per session varies depending on the knowledge base and speed of learning of the attendees.
- Philips will provide a training checklist for trainees to manage the delivery of the training objectives. The training objectives may vary by customer need.

### Engagement Completion Criteria

- Training checklist of objectives is delivered to the respective customer designated trainees.
- Philips Consultant has delivered a maximum of eight (8) hours of IntelliSpace Cardiovascular onsite application training.

### Customer Responsibilities

- Customer should designate a clinical contact as the focal point to lead and coordinate scheduling.
- To provide a trained and satisfied group of users, Philips requests that trainees clear their schedules to ensure focused availability during training sessions.
- Customer should designate a person(s) to act as the resident IntelliSpace Cardiovascular expert following the clinical training. This person(s) will be available to train with the Philips Consultant the entire training period. Following initial sessions on all aspects of the configuration and setup, this person(s) will assist in training additional staff.



Line #	Description	Qty
	<ul style="list-style-type: none"> <li>• Training days will be scheduled in advance. Philips should be notified in advance of any cancellation or rescheduling of the scheduled training dates.</li> <li>• Attendees must be familiar with basic PC and Microsoft Windows application skills and well versed with digital image acquisition as defined by their departmental modality devices.</li> </ul>	

#### Estimating Assumptions on Work

- Customer personnel and resources, defined in the project plan are made available at the times defined by the project plan.
- IntelliSpace Cardiovascular software purchased and system installed before delivery of this service.
- Maximum of eight hours of training delivered in a single event

29	<b>ISCV Custom Project Implementation 2</b>	<b>15</b>
	This item represents Intellispace Cardiovascular custom services. The Statement of Work (SOW) or Project Scope Document (PSD) describes the implementation deliverables.	

30	<b>ISCV Custom Project Implementation 1</b>	<b>5</b>
	This item represents Intellispace Cardiovascular custom services. The Statement of Work (SOW) or Project Scope Document (PSD) describes the implementation deliverables.	

31	<b>Onsite ISCV Prof. Services (8 hours)</b>	<b>4</b>
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#### Overview

This service provides units of implementation services and/or time based consulting.

#### Engagement Deliverables

- Each unit of this product provides 8 hours of consulting by a Philips consultant.
- Topics for consulting are limited to Philips Enterprise Imaging and Clinical Informatics products and services.

#### Engagement Completion Criteria

The engagement is complete upon delivery of the units of labor. There are no other deliverables associated with this service.

#### Customer Work Contributions

- Customer should designate appropriate resource(s) with the knowledge and authority to represent the organization and facilitate the work of the Philips consultant.
- Customer may purchase additional units if more time is required to complete implementation.

#### Limitations

Line #	Description	Qty
	<ul style="list-style-type: none"> <li>Each unit of labor will be delivered in accordance with the project plan established by the project manager.</li> <li>Services shall be delivered Monday thru Friday on Philips business days between the hours of 8am thru 5pm local time.</li> <li>Professional service hours will decrement by 1.5 for after-hours work and 2.0 for weekend work- add</li> <li>All work must be completed in a test environment prior to implementation</li> </ul>	
32	<b>ISCV Web Reporting PS Hours</b> ISCV Web-based echo reporting provides clinicians diagnostic quality images and reporting capabilities "anytime, anywhere" through remote access.  ISCV Web Reporting is currently available for the following study types: - Adult Echo - Stress Echo (Limited) - TEE - Pediatric (No Zscores)	1
33	<b>HIT OnSite Clinical Education, 8 Hrs</b> Clinical Education Specialists will provide eight (8) hours of tailored Healthcare IT OnSite Education for up to four (4) students, selected by customer, including technologists from night/weekend shifts if necessary. CEUs are not available in all cases. Please read Guidelines for more information, which will be provided to you during the scheduling process. Note: Philips personnel are not responsible for actual patient contact or operation of equipment during education sessions except to demonstrate proper equipment operation. Education expires one (1) year from the earlier of equipment delivery date or purchase date. except to demonstrate proper equipment operation. Education expires one (1) year from the earlier of equipment delivery date or purchase date.	1
34	<b>1-DAY XCELERA CES PURCHASED ONSITE</b> <b>1 Day On-Site CES</b> – Ultrasound training designed specifically to meet the customers' needs; one business day (up to 8 consecutive hours) with one of our Philips Clinical Education Specialists. Education is provided Monday-Friday during normal business hours.  <b>**Note:</b> Philips Healthcare personnel are not responsible for actual patient contact or operation of equipment during education sessions except to demonstrate proper equipment operation. The training sessions should be attended by Ultrasound Sonographers as identified by the department director. Site must be patient-ready.  <b>Purchased Education expires one (1) year from equipment installation date or purchase date if sold separately.</b>	4
35	<b>ISCV Key User Course</b> <b>Overview:</b> This course provides the learner with the knowledge and skills required for a successful IntelliSpace Cardiovascular implementation by the Clinical Super User. This training is designed for new IntelliSpace Cardiovascular Clinical Super Users (Sonographers, Systems Analysts, PACS Administrators) who are unfamiliar with the clinical features of the IntelliSpace Cardiovascular application and implementation process. The course includes a combination of eLearning modules and Instructor-led Training (ILT). <ul style="list-style-type: none"> <li>The interactive, eLearning modules will focus on key functions and transactions in the system and will be made available to the learner prior to the ILT portion of the training and are a</li> </ul>	2

Line #	Description	Qty
	prerequisite. These modules will provide a combination of foundational knowledge and interactive system simulations. Each module will include knowledge checks and a final assessment to ensure that the participant understands the concepts and how to implement them. Finally, participants will be able to revisit these modules as part of ongoing performance support.	
	<ul style="list-style-type: none"> <li>The ILT Class will focus on providing the learner with a simulated “Day-in-the-Life” experience with IntelliSpace Cardiovascular. The class is taught using a combination of demonstrations and hands on experience. This intensive face-to-face portion of the course will take place at a designated Philips learning facility.</li> </ul>	
	The price of this training includes air travel, ground transportation, hotel accommodations, lunch, and a \$40 daily allowance for breakfast and/or dinner at the hotel.	

#### **Features:**

Individuals who complete the prerequisite eLearning modules and attend the Instructor-led portion of the training should be able to:

- Describe the function of each of the components comprising the IntelliSpace Cardiovascular network
- Identify how to meet the demands of the hospital's rigid user security requirements by utilizing the security features of the IntelliSpace Cardiovascular
- Apply both the User Centric Cardiovascular Workspace layer and the Patient Centric Cardiovascular Workspace layer when selecting the various Applets to formulate the presentation of relevant information
- Review the steps to get a detailed overview of a chosen patient's cardiac history
- Apply all the necessary features of the Search and Worklist Applets based on the role of the user
- Perform the diverse types of cases from beginning to end and incorporate all aspects of the case into an electronic medical record.

**Recommended Attendees:** (This course is not recommended for installations that use only Cath, NM or View Forum applications)

- IntelliSpace Cardiovascular Clinical Super Users (Sonographers, System Analysts, PACS Administrators)
- The prospective student should have knowledge of clinical procedures and facility workflow, basic PC knowledge of Windows OS (copy, paste, find files, keyboard and mouse usage).

#### **Engagement Deliverables:**

- Successful completion of IntelliSpace Cardiovascular Clinical Super User prerequisite eLearning modules is required prior to attending this course.
- Completion of the instructor-led portion of the training, covering the features listed above with the addition of a final exam.

#### **Engagement Completion Criteria:**

- Attendance of one person at IntelliSpace Cardiovascular Clinical Super User ILT Course
- The trainee has completed the prerequisite eLearning modules and attended the instructor-led portion of the training

#### **Customer Work Contributions:**

- Successful completion of the IntelliSpace Cardiovascular Clinical Super User Pre-Requisite eLearning modules is required prior to registration for this course.
- The eLearning modules are located on the Philips Learning Management System
- Attendance and completion of the ILT Course

#### **Estimating Assumptions on Work:**

- Customer personnel and resources, defined in the project plan are made available at the times defined by the project plan.
- Training is held at a designated Philips Training Center location.

Line #	Description	Qty
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**Limitations on Work:**

- Training allocation is good for one (1) year from the purchase date. Any unused training will expire after this time.
- Training classes are scheduled in advance and registration is on a first come, first serve basis.
- Notify Philips a minimum of two (2) weeks in advance of any changes to registration.

o Travel includes: round-trip airfare, round-trip transportation from the airport (in CA) to the hotel and \$40-per-day hotel food credit; a catered lunch will be provided daily at the training center. Any expenses incurred outside the specified expense guidelines mentioned above, are the sole responsibility of the training participants and will not be reimbursed by Philips.

36	<b>ISCV Advanced Administrator Course</b>	<b>2</b>
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**Overview:**

This course provides the learner with the knowledge and skills required for a successful IntelliSpace Cardiovascular Installation. This training is designed for new IntelliSpace Cardiovascular customers who are unfamiliar with the IntelliSpace Cardiovascular application installation process.

The course includes a combination of eLearning modules and Instructor-led Training (ILT).

- The interactive eLearning modules will focus on key functions and transactions in the system and will be made available to the learner prior to the ILT portion of the training and are a prerequisite. These modules will provide a combination of foundational knowledge and interactive system simulations. Each module will include knowledge checks and a final assessment to ensure that participant understands the concepts and system use. Finally, participants will be able to revisit these modules as part of ongoing performance support.

- The ILT will focus on providing the learner with a simulated "Day-in-the-Life" experience with IntelliSpace Cardiovascular. The class is taught using a combination of demonstration and hands on experience. This intensive face-to-face portion of the course will take place at a designated Philips learning facility.

The price of this training also includes air travel, ground transportation, hotel accommodations, lunch, and a \$40 daily allowance for breakfast and/or dinner at the hotel.

**Features:**

Individuals who complete the prerequisite eLearning modules and attend the Instructor-led portion of the training should be able to:

- Describe the function of each of the components comprising the network
- Properly use the system to monitor and troubleshoot any procedure type by using IntelliSpace Cardiovascular features
- Diagram the data flow of a case throughout the exam life-cycle

**Recommended Attendees:**

- Biomedical Technicians and System Administrators
- The prospective student should have knowledge of clinical procedures and facility workflow, basic PC knowledge of Windows OS (copy, paste, find files, keyboard, and mouse usage).

**Engagement Deliverables:**

Line #	Description	Qty
	<ul style="list-style-type: none"> <li>• Successful completion of IntelliSpace Cardiovascular Pre-Requisite eLearning modules is required prior to attending this course.</li> <li>• Completion of the Instructor-led portion of the training, covering the features listed above with the addition of a final exam.</li> </ul> <p>Engagement Completion Criteria:</p> <ul style="list-style-type: none"> <li>• Attendance of one person at IntelliSpace Cardiovascular Installation Instructor-led Training Course</li> <li>• The trainee has completed the prerequisite eLearning modules and attended the instructor-led portion of the training</li> </ul> <p><b>Customer Work Contributions:</b></p> <ul style="list-style-type: none"> <li>• Successful completion of the IntelliSpace Cardiovascular Pre-Requisite eLearning modules is required prior to registration for this course.</li> <li>• The eLearning modules are located on the Philips Learning Center</li> <li>• Attendance and completion of the Instructor-led Training Course</li> </ul> <p><b>Estimating Assumptions on Work:</b></p> <ul style="list-style-type: none"> <li>• Customer personnel and resources, defined in the project plan are made available at the times defined by the project plan.</li> <li>• Training is held at a designated Philips' Training Center location.</li> </ul> <p><b>Limitations on Work:</b></p> <ul style="list-style-type: none"> <li>• Training allocation is good for one (1) year from the purchase date. Any unused training will expire after this time.</li> <li>• Training classes are scheduled in advance and registration is on a first come, first served basis.</li> <li>• Notify Philips a minimum of two (2) weeks in advance of any changes to registration.</li> </ul> <ul style="list-style-type: none"> <li>o Travel includes: round-trip airfare, round-trip transportation from the airport (in CA) to the hotel and \$40-per-day hotel food credit; a catered lunch will be provided daily at the training center.</li> <li>o Any expenses incurred outside the specified expense guidelines mentioned above, are the sole responsibility of the training participants and will not be reimbursed by Philips.</li> </ul>	

Line #	Description	Qty
	HP Z240 Tower Workstation	
	1x Intel Core i5-6500 3.2GHz	
	8GB DDR4-2400 Ram	
	nVidia P2000 4Gb	
	1x HP Z TurboDrive G2 256GB SSD	
	1x HP USB Keyboard	
	1x HP USB Laser mouse	
	Win 10 Pro 64	
<b>38</b>	<b>HP Server 2 no RAID</b>	<b>4</b>
	HP ProLiant DL160 Gen9:	
	Processors: 2x E5-2620v4	
	RAM: 32GB (4x8)	
	Storage: 2x HP 600GB SAS 15k SFF DS	
	Network: HP 1GB 4-port	
	Power: 2x HPE 900W AC 240 DVC	
	OS: Windows Server 2016 STD with Windows Server 2012 R2 Downgrade option	
<b>39</b>	<b>HP Server 1 Internal RAID</b>	<b>3</b>
	HP ProLiant DL160 Gen9:	
	Processors: 2x E5-2620v4	
	RAM: 32GB (4x8)	
	Storage: 8x HP 600GB 12G SAS 15k 2.5 inch	
	Network: HP 1GB 4-port	
	Power: 2x HPE 900W AC 240 DVC	
	OS: Windows Server 2016 STD with Windows Server 2012 R2 Standard downgrade option	
<b>40</b>	<b>HP DAS with 16 Disks</b>	<b>1</b>
	HP D3700 Direct Attached Storage Enclosure (16 Disks):	
	1x HP D3700 with 16x 600GB 15k SAS HDD (14D+2P)	
	1x Smart Array P441/4G Controller	
	1x HP Ext 4.0m MiniSAS HD to MiniSAS Cbl	
<b>41</b>	<b>HP 36U Rack</b>	<b>1</b>
	HP 36U 600x1075mm Adv G2 Kit Shock Rack.	
	Includes:	
	1x HPE 1820 24G Switch	
	8x 3.0m CAT6 STP Data Cable	
	1x HPE 0x1x8 G3 KVM Console Switch	
	8x HP KVM USB Adapter	